MITSUBISHI ELECTRIC

CITY MULTI™

Changes for the Better

CITY MULTI™

DATA BOOK

R410A Series

2004

CITY MULTI

Ⅰ INDOOR UNIT

P. Ⅰ-1 ~ Ⅰ-248

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- High static pressure type — PEFY-P-VMH-E
- Middle static pressure type — PEFY-P-VMM-E Ⅰ-37
- All fresh air type — PEFY-P-VMH-E-F Ⅰ-69

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- 2-way flow type — PLFY-P-VLMD-E Ⅰ-139
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Ⅱ OUTDOOR UNIT

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Cassette ceiling (4-way flow type)	PLFY-P-VAM-E	Ⅰ-163
Wall mounted	PKFY-P-VAM-E/VGM-E	Ⅰ-179
Ceiling suspended	PCFY-P-VGM-E	Ⅰ-197
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OA Processing unit (Include humidifier)	GUF-RDH3	
LOSSNAY unit	LGH-RX3-E	Ⅰ-219
BC controller (with PURY)	CMB-P-V-G	Ⅰ-227
	CMB-P-V-GA	
	CMB-P-V-GB	

CITY MULTI

INDOOR UNITS

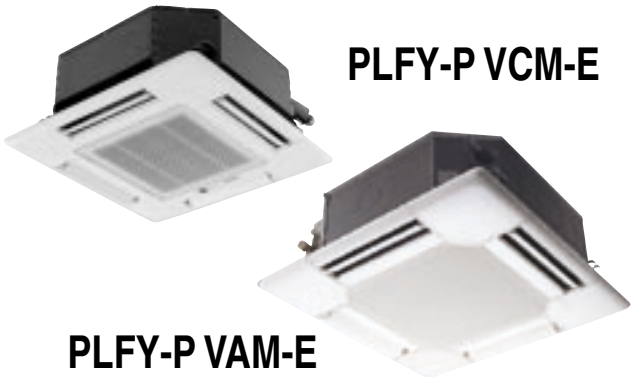
Type	Model Name	20	25	32	40	50	63	71	80	100	125	140	200	250	Page No.
Ceiling concealed	PEFY-P-VML-E	●	●	●											I-5
	PEFY-P-VMH-E				●	●	●	●	●	●	●	●	●	●	I-5
	PEFY-P-VMM-E	●	●	●	●	●	●	●	●	●	●	●			I-37
	PEFY-P-VMH-E-F								●			●			I-69
Ceiling mounted built-in	PDFY-P-VM-E	●	●	●	●	●	●	●	●	●	●				I-83
Floor standing (Exposed)	PFFY-P-VLEM-E	●	●	●	●	●	●								I-109
Floor standing (Concealed)	PFFY-P-VLRM-E	●	●	●	●	●	●								I-109
Cassette ceiling (1-way flow)	PMFY-P-VBM-E	●	●	●	●										I-125
Cassette ceiling (2-way flow)	PLFY-P-VLMD-E	●	●	●	●	●	●		●	●	●				I-139
Cassette ceiling (4-way flow)	PLFY-P-VAM-E			●	●	●	●		●	●	●				I-163
Wall mounted	PKFY-P-VAM-E	●	●												I-179
	PKFY-P-VGM-E			●	●	●									I-179
Ceiling suspended	PCFY-P-VGM-E				●		●			●	●				I-197

Cooling capacity	HP	0.8	1.0	1.25	1.6	2.0	2.5	2.8	3.2	4.0	5.0	6.0	8.0	10.0
	※1 kW	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0	11.2	14.0	16.0	22.4	28.0
	※1 BTU/h	7,500	9,550	12,280	15,350	19,100	24,220	27,290	30,700	38,200	47,750	54,580	76,400	95,500
	※2 kW	2.3	2.9	3.7	4.7	5.8	7.3	8.3	9.3	11.6	14.5	16.3	23.3	29.1
	※2 kcal/h	2,000	2,500	3,150	4,000	5,000	6,300	7,100	8,000	10,000	12,500	14,000	20,000	25,000
Heating capacity	※1 kW	2.5	3.2	4.0	5.0	6.3	8.0	9.0	10.0	12.5	16.0	18.0	25.0	31.5
	※1 BTU/h	8,530	10,750	13,640	17,060	21,500	27,290	30,700	34,120	42,650	54,580	61,400	85,300	107,500
	※2 kW	2.6	3.3	4.1	5.2	6.5	8.3	9.3	10.5	13.0	16.3	18.6	26.0	32.6
	※2 kcal/h	2,250	2,800	3,550	4,500	5,600	7,100	8,000	9,000	11,200	14,000	16,000	22,400	28,000

Note: ※1 Cooling/Heating capacity indicates the maximum value at operation under the following condition.
Cooling : Indoor 27˚CDB/19˚CWB,Outdoor 35˚CDB
Heating : Indoor 20˚CDB,Outdoor 7˚CDB/6˚CWB
※2 Cooling capacity indicates the maximum value at operation under the following condition.
Cooling : Indoor 27˚CDB/19.5˚CWB,Outdoor 35˚CDB (WR2: water 30˚C)
Heating : Indoor 21˚CDB,Outdoor 7˚CDB/6˚CWB (WR2: water 20˚C)

Wide selection of indoor units

Ceiling cassette (4way air flow)



PLFY-P VCM-E

PLFY-P VAM-E

Ceiling suspended

PCFY-P VGM-E

Ceiling cassette (2way air flow)

PLFY-P VLMD-E

Wall mounted

PKFY-P VAM-E
PKFY-P VGM-E

Ceiling cassette (1way air flow)

PMFY-P VBM-E

Floor standing

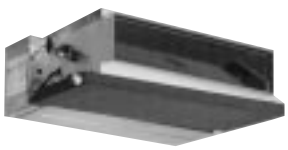
PFFY-P VLEM-E
PFFY-P VLRM-E

Ceiling concealed

PEFY-P VML-E

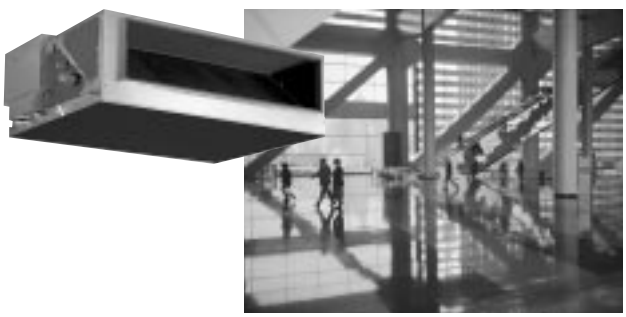
PEFY-P VMH-E

PEFY-P VMM-E

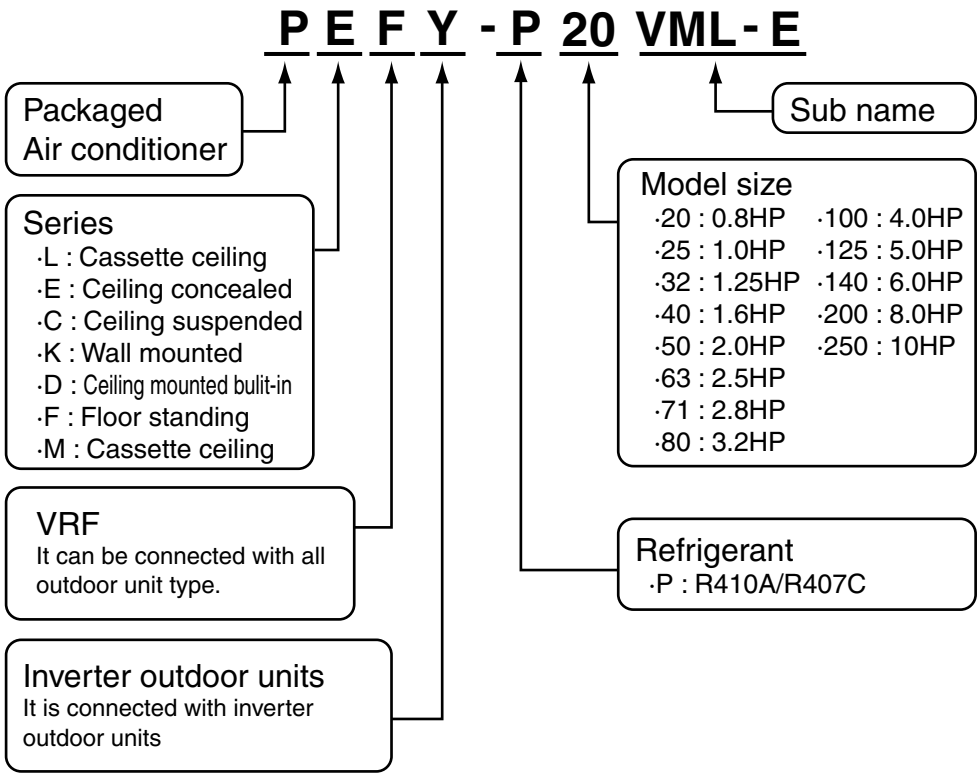


Fresh Air Intake

PEFY-P VMH-E-F



Meaning of model name



Ceiling concealed

PEFY-P-VML-E
PEFY-P-VMH-E

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Model Name	20	25	32	40	50	63	71	80	100	125	140	200	250
PEFY-P-VML-E	●	●	●										
PEFY-P-VMH-E				●	●	●	●	●	●	●	●	●	●

1. Specifications

			PEFY-P20VML-E	PEFY-P25VML-E	PEFY-P32VML-E
Power source			~ 220-240V 50Hz / 60Hz		
Cooling capacity	✻1	kW	2.2	2.8	3.6
	✻1	BTU/h	7,500	9,550	12,280
	✻2	kW	2.3	2.9	3.7
	✻2	kcal/h	2,000	2,500	3,150
Heating capacity	✻1	kW	2.5	3.2	4.0
	✻1	BTU/h	8,530	10,750	13,640
	✻2	kW	2.6	3.3	4.1
	✻2	kcal/h	2,250	2,800	3,550
Power consumption (50/60Hz)	Cooling	kW	0.05/0.06		0.07/0.09
	Heating	kW	0.05/0.06		0.07/0.09
Current	Cooling	A	0.24/0.28		0.32/0.42
	Heating	A	0.24/0.28		0.32/0.42
External finish			Galvanizing		
Dimension H x W x D		mm	225 x 720 x 550		
Net weight		kg	18		
Heat exchanger			Cross fin (Aluminum plate fin and copper tube)		
Fan	Type		Sirocco fan× 1		
	Airflow rate (Lo-Mid-Hi)	m^3/min	4.8-5.8-7.9		4.8-5.8-9.5
	External static pressure	Pa	5		
Motor	Type		Single phase induction motor		
	Output	kW	0.023		0.032
Air filter			PP Honeycomb fabric (washable)		
Refrigerant pipe dimension	Gas (Brazing)	mm	ø 12.7		
	Liquid (Brazing)	mm	ø 6.35		
Drain pipe dimension			R1 (External thread)		
Noise level (Lo-Mid-Hi)	✻5	dB(A)	25-29-36		25-29-40

				PEFY-P40VMH-E	PEFY-P50VMH-E	PEFY-P63VMH-E	PEFY-P71VMH-E
Power source				~ 220-240V 50Hz /60Hz			
Cooling capacity	✻1		kW	4.5	5.6	7.1	8.0
	✻1		BTU/h	15,350	19,100	24,220	27,290
	✻2		kW	4.7	5.8	7.3	8.3
	✻2		kcal/h	4,000	5,000	6,300	7,100
Heating capacity	✻1		kW	5.0	6.3	8.0	9.0
	✻1		BTU/h	17,060	21,500	27,290	30,700
	✻2		kW	5.2	6.5	8.3	9.3
	✻2		kcal/h	4,500	5,600	7,100	8,000
Power consumption (50/60Hz)	Cooling		kW	0.19/0.23		0.24/0.30	0.26/0.33
	Heating		kW	0.19/0.23		0.24/0.30	0.26/0.33
Current	Cooling		A	0.88/1.06		1.12/1.38	1.20/1.51
	Heating		A	0.88/1.06		1.12/1.38	1.20/1.51
External finish				Galvanizing			
Dimension H x W x D			mm	380 x 750 x 900			380 x 1,000 x 900
Net weight			kg	44	45		50
Heat exchanger				Cross fin (Aluminum plate fin and copper tube)			
Fan	Type			Sirocco fan× 1			
	Airflow rate (Lo-Hi)		m^3/min	10.0-14.0		13.5-19.0	15.5-22.0
	External static pressure ✻3	220V	Pa	50/100/200			
		230, 240V	Pa	100/150/200			
Motor	Type			Single phase induction motor			
	Output	✻4	kW	0.08		0.12	0.14
Air filter (option)				Synthethic fiber unwoven cloth filter(long life)			
Refrigerant pipe dimension	Gas (Flare)		mm	ø 12.7	ø 12.7 (R410A) ø 15.88 (R22,R407C)	ø 15.88	
	Liquid (Flare)		mm	ø 6.35	ø 6.35 (R410A) ø 9.52 (R22,R407C)	ø 9.52	
Drain pipe dimension				32 (1-1/4 inch)			
Noise level (Lo-Hi)		220V	dB(A)	27-34		32-38	32-39
	✻5	230, 240V	dB(A)	31-37		36-41	35-41

Note: ✻1 Cooling/Heating capacity indicates the maximum value at operation under the following condition.
Cooling : Indoor 27˚CDB/19˚CWB,Outdoor 35˚CDB
Heating : Indoor 20˚CDB,Outdoor 7˚CDB/6˚CWB
✻2 Cooling capacity indicates the maximum value at operation under the following condition.
Cooling : Indoor 27˚CDB/19.5˚CWB,Outdoor 35˚CDB (WR2: water 30˚C)
Heating : Indoor 21˚CDB,Outdoor 7˚CDB/6˚CWB (WR2: water 20˚C)
✻3 The external static pressure is set to 100Pa (at 220V) /150Pa (at 230, 240V) at factory shipment.
✻4 The value are that at 240V.
✻5 It is measured in anechoic room.

				PEFY-P80VMH-E	PEFY-P100VMH-E	PEFY-P125VMH-E	PEFY-P140VMH-E
Power source				~ 220-240V 50Hz /60Hz			
Cooling capacity		※1	kW	9.0	11.2	14.0	16.0
		※1	BTU/h	30,700	38,200	47,750	54,580
		※2	kW	9.3	11.6	14.5	16.3
		※2	kcal/h	8,000	10,000	12,500	14,000
Heating capacity		※1	kW	10.0	12.5	16.0	18.0
		※1	BTU/h	34,120	42,650	54,580	61,400
		※2	kW	10.5	13.0	16.3	18.6
		※2	kcal/h	9,000	11,200	14,000	16,000
Power consumption (50/60Hz)	Cooling		kW	0.32/0.40	0.48/0.58		0.48/0.59
	Heating		kW	0.32/0.40	0.48/0.58		0.48/0.59
Current	Cooling		A	1.47/1.83	2.34/2.66		2.35/2.70
	Heating		A	1.47/1.83	2.34/2.66		2.35/2.70
External finish				Galvanizing			
Dimension H x W x D			mm	380 x 1,000 x 900	380 x 1,200 x 900		
Net weight			kg	50	70		
Heat exchanger				Cross fin (Aluminum plate fin and copper tube)			
Fan	Type			Sirocco fan× 1	Sirocco fan× 2		
	Airflow rate (Lo-Hi)		m^3/min	18.0-25.0	26.5-38.0		28.0-40.0
	External static pressure ※3	220V	Pa	50/100/200			
		230, 240V	Pa	100/150/200			
Motor	Type			Single phase induction motor			
	Output	※4	kW	0.18	0.26		
Air filter (option)				Synthethic fiber unwoven cloth filter(long life)			
Refrigerant pipe dimension	Gas (Flare)		mm	ø 15.88	ø 15.88 (R410A) ø 19.05 (R22,R407C)		
	Liquid (Flare)		mm	ø 9.52			
Drain pipe dimension				32 (1-1/4 inch)			
Noise level (Lo-Hi) ※7		220V	dB(A)	35-41	34-42		
		230, 240V	dB(A)	38-43	38-44		

				PEFY-P200VMH-E	PEFY-P250VMH-E
Power source				3N ~ 380-415V 50Hz / 60Hz	
Cooling capacity		※1	kW	22.4	28.0
		※1	BTU/h	76,400	95,500
		※2	kW	23.3	29.1
		※2	kcal/h	20,000	20,500
Heating capacity		※1	kW	25.0	31.5
		※1	BTU/h	85,300	107,500
		※2	kW	26.0	32.6
		※2	kcal/h	22,400	28,000
Power consumption (50/60Hz)	Cooling		kW	0.99/1.14	1.23/1.41
	Heating		kW	0.99/1.14	1.23/1.41
Current	Cooling		A	1.62/1.86	2.0/2.3
	Heating		A	1.62/1.86	2.0/2.3
External finish				Galvanizing	
Dimension H x W x D			mm	470 x 1,250 x 1,120	
Net weight			kg	100	
Heat exchanger				Cross fin (Aluminum plate fin and copper tube)	
Fan	Type			Sirocco fan× 2	
	Airflow rate		m^3/min	58.0	72.0
	External static pressure ※5	380V	Pa	110/220	
		400, 415V	Pa	130/260	
Motor	Type			3-phase induction motor	
	Output	※6	kW	0.76	1.08
Air filter (option)				Synthethic fiber unwoven cloth filter(long life)	
Refrigerant pipe dimension	Gas (Brazing)		mm	ø 19.05 (R410A) ø 25.4 (R22,R407C)	ø 22.2 (R410A) ø 28.58 (R22,R407C)
	Liquid (Brazing)		mm	ø 9.52 (R410A) ø 12.7 (R22,R407C)	
Drain pipe dimension				32 (1-1/4 inch)	
Noise level ※7		380V	dB(A)	42(110Pa)/45(220Pa)	50(110Pa)/52(220Pa)
		400, 415V	dB(A)	44(130Pa)/47(260Pa)	52(130Pa)/54(260Pa)

Note: ※1 Cooling/Heating capacity indicates the maximum value at operation under the following condition.
Cooling : Indoor 27˚CDB/19˚CWB,Outdoor 35˚CDB
Heating : Indoor 20˚CDB,Outdoor 7˚CDB/6˚CWB
※2 Cooling capacity indicates the maximum value at operation under the following condition.
Cooling : Indoor 27˚CDB/19.5˚CWB,Outdoor 35˚CDB (WR2: water 30˚C)
Heating : Indoor 21˚CDB,Outdoor 7˚CDB/6˚CWB (WR2: water 20˚C)
※3 The external static pressure is set to 100Pa (at 220V) /150Pa (at 230, 240V) at factory shipment.
※4 The value are that at 240V.
※5 The external static pressure is set to 110Pa (at 380V) /130Pa (at 400, 415V) at factory shipment.
※6 The value are that at 415V.
※7 It is measured in anechoic room.

2. Capacity Tables

2.1a. Cooling capacity in combination with PUHY,PUY,PURY-P200,250YGM

PEFY-P-VML-E,VMH-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.0	1.7	2.1	1.8	2.3	1.8	2.4	1.9	2.4	2.0	2.6	2.0	2.8	1.9
	22.5	2.0	1.7	2.1	1.8	2.3	1.8	2.4	1.9	2.4	2.0	2.6	2.0	2.8	1.9
	25.0	2.0	1.7	2.1	1.8	2.3	1.8	2.4	1.9	2.4	2.0	2.6	2.0	2.7	1.9
	27.5	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.9	2.4	2.0	2.5	1.9	2.7	1.9
	30.0	1.9	1.7	2.0	1.8	2.2	1.8	2.3	1.9	2.3	1.9	2.5	1.9	2.6	1.9
	32.5	1.9	1.7	2.0	1.8	2.1	1.8	2.2	1.8	2.3	1.9	2.4	1.9	2.6	1.9
	35.0	1.9	1.7	2.0	1.8	2.1	1.8	2.2	1.8	2.2	1.9	2.4	1.9	2.5	1.9
	37.5	1.8	1.7	1.9	1.8	2.0	1.8	2.1	1.8	2.2	1.9	2.3	1.9	2.5	1.8
	40.0	1.8	1.7	1.9	1.8	2.0	1.7	2.1	1.8	2.1	1.9	2.3	1.8	2.4	1.8
	43.0	1.8	1.7	1.8	1.7	2.0	1.7	2.0	1.8	2.0	1.8	2.2	1.8	2.4	1.8
25 (2.8)	20.0	2.5	2.1	2.7	2.2	2.9	2.2	3.0	2.2	3.1	2.3	3.3	2.3	3.5	2.3
	22.5	2.5	2.1	2.7	2.2	2.9	2.2	3.0	2.2	3.1	2.3	3.3	2.3	3.5	2.3
	25.0	2.5	2.1	2.7	2.2	2.9	2.2	3.0	2.2	3.1	2.3	3.3	2.3	3.5	2.2
	27.5	2.5	2.1	2.6	2.2	2.8	2.1	3.0	2.2	3.0	2.3	3.2	2.3	3.4	2.2
	30.0	2.5	2.0	2.6	2.1	2.8	2.1	2.9	2.2	3.0	2.3	3.1	2.2	3.3	2.2
	32.5	2.4	2.0	2.5	2.1	2.7	2.1	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.2
	35.0	2.4	2.0	2.5	2.1	2.7	2.1	2.8	2.1	2.8	2.2	3.0	2.2	3.2	2.2
	37.5	2.4	2.0	2.5	2.1	2.6	2.0	2.7	2.1	2.8	2.2	3.0	2.2	3.1	2.1
	40.0	2.3	2.0	2.4	2.0	2.6	2.0	2.7	2.1	2.7	2.2	2.9	2.1	3.1	2.1
	43.0	2.3	1.9	2.4	2.0	2.5	2.0	2.6	2.1	2.6	2.1	2.8	2.1	3.0	2.1
32 (3.6)	20.0	3.2	2.6	3.4	2.7	3.7	2.7	3.9	2.8	4.0	2.9	4.2	2.8	4.6	2.8
	22.5	3.2	2.6	3.4	2.7	3.7	2.7	3.9	2.8	4.0	2.9	4.2	2.8	4.6	2.8
	25.0	3.2	2.6	3.4	2.7	3.7	2.7	3.9	2.8	4.0	2.8	4.2	2.8	4.5	2.8
	27.5	3.2	2.5	3.4	2.7	3.6	2.7	3.8	2.7	3.9	2.8	4.1	2.8	4.4	2.7
	30.0	3.2	2.5	3.3	2.6	3.6	2.6	3.7	2.7	3.8	2.8	4.0	2.7	4.3	2.7
	32.5	3.1	2.5	3.3	2.6	3.5	2.6	3.7	2.7	3.7	2.8	4.0	2.7	4.2	2.7
	35.0	3.1	2.5	3.2	2.6	3.4	2.6	3.6	2.6	3.7	2.7	3.9	2.7	4.1	2.7
	37.5	3.0	2.5	3.2	2.6	3.3	2.5	3.5	2.6	3.6	2.7	3.8	2.7	4.0	2.6
	40.0	3.0	2.4	3.1	2.5	3.3	2.5	3.5	2.6	3.5	2.7	3.7	2.6	4.0	2.6
	43.0	2.9	2.4	3.0	2.5	3.2	2.5	3.3	2.5	3.3	2.6	3.6	2.6	3.9	2.6
40 (4.5)	20.0	4.0	3.1	4.3	3.3	4.6	3.3	4.9	3.4	5.0	3.5	5.3	3.5	5.7	3.4
	22.5	4.0	3.1	4.3	3.3	4.6	3.3	4.9	3.4	5.0	3.5	5.3	3.5	5.7	3.4
	25.0	4.0	3.1	4.3	3.3	4.6	3.3	4.9	3.4	5.0	3.5	5.3	3.5	5.6	3.4
	27.5	4.0	3.1	4.3	3.3	4.5	3.3	4.8	3.4	4.8	3.4	5.2	3.4	5.5	3.4
	30.0	4.0	3.1	4.2	3.2	4.5	3.2	4.7	3.3	4.8	3.4	5.0	3.4	5.4	3.3
	32.5	3.9	3.1	4.1	3.2	4.4	3.2	4.6	3.3	4.7	3.4	5.0	3.3	5.3	3.3
	35.0	3.8	3.0	4.0	3.2	4.3	3.1	4.5	3.2	4.6	3.3	4.9	3.3	5.2	3.3
	37.5	3.8	3.0	4.0	3.1	4.2	3.1	4.4	3.2	4.5	3.3	4.8	3.3	5.0	3.2
	40.0	3.7	3.0	3.9	3.1	4.1	3.1	4.3	3.2	4.4	3.3	4.7	3.2	5.0	3.2
	43.0	3.6	3.0	3.8	3.1	4.0	3.0	4.2	3.1	4.2	3.2	4.5	3.2	4.8	3.1
50 (5.6)	20.0	5.0	3.7	5.3	3.8	5.8	3.9	6.0	3.9	6.2	4.1	6.6	4.0	7.1	4.0
	22.5	5.0	3.7	5.3	3.8	5.8	3.9	6.0	3.9	6.2	4.1	6.6	4.0	7.1	4.0
	25.0	5.0	3.7	5.3	3.8	5.8	3.9	6.0	3.9	6.2	4.1	6.6	4.0	6.9	3.9
	27.5	5.0	3.6	5.3	3.8	5.7	3.8	5.9	3.9	6.0	4.0	6.4	4.0	6.8	3.9
	30.0	4.9	3.6	5.2	3.8	5.5	3.8	5.8	3.8	5.9	4.0	6.3	3.9	6.7	3.9
	32.5	4.8	3.6	5.1	3.7	5.4	3.7	5.7	3.8	5.8	3.9	6.2	3.9	6.6	3.8
	35.0	4.8	3.5	5.0	3.7	5.3	3.6	5.6	3.7	5.7	3.9	6.0	3.8	6.4	3.7
	37.5	4.7	3.5	4.9	3.6	5.2	3.6	5.5	3.7	5.5	3.8	5.9	3.8	6.3	3.7
	40.0	4.6	3.5	4.8	3.6	5.1	3.6	5.4	3.7	5.5	3.8	5.8	3.7	6.2	3.7
	43.0	4.5	3.4	4.7	3.5	5.0	3.5	5.2	3.6	5.2	3.6	5.7	3.7	6.0	3.6
63 (7.1)	20.0	6.4	4.8	6.8	5.1	7.3	5.1	7.7	5.2	7.8	5.4	8.4	5.3	9.0	5.3
	22.5	6.4	4.8	6.8	5.1	7.3	5.1	7.7	5.2	7.8	5.4	8.4	5.3	9.0	5.3
	25.0	6.4	4.8	6.8	5.1	7.3	5.1	7.7	5.2	7.8	5.4	8.3	5.3	8.8	5.2
	27.5	6.3	4.8	6.7	5.0	7.2	5.0	7.5	5.1	7.6	5.3	8.1	5.2	8.7	5.2
	30.0	6.2	4.8	6.6	5.0	7.0	4.9	7.4	5.1	7.5	5.2	8.0	5.2	8.5	5.1
	32.5	6.1	4.7	6.5	4.9	6.9	4.9	7.2	5.0	7.3	5.2	7.8	5.1	8.3	5.0
	35.0	6.0	4.7	6.4	4.9	6.7	4.8	7.1	5.0	7.2	5.1	7.7	5.1	8.1	5.0
	37.5	6.0	4.6	6.2	4.8	6.6	4.8	6.9	4.9	7.0	5.0	7.5	5.0	8.0	4.9
	40.0	5.9	4.6	6.1	4.8	6.5	4.7	6.8	4.8	6.9	5.0	7.3	4.9	7.8	4.9
	43.0	5.8	4.5	6.0	4.7	6.3	4.6	6.6	4.8	6.6	4.9	7.2	4.9	7.6	4.8
71 (8.0)	20.0	7.2	5.4	7.6	5.7	8.2	5.7	8.6	5.8	8.8	6.0	9.4	5.9	10.1	5.9
	22.5	7.2	5.4	7.6	5.7	8.2	5.7	8.6	5.8	8.8	6.0	9.4	5.9	10.1	5.9
	25.0	7.2	5.4	7.6	5.7	8.2	5.7	8.6	5.8	8.8	6.0	9.4	5.9	9.9	5.8
	27.5	7.1	5.4	7.6	5.6	8.1	5.6	8.5	5.7	8.6	5.9	9.2	5.8	9.8	5.8
	30.0	7.0	5.3	7.4	5.6	7.9	5.5	8.3	5.7	8.5	5.8	9.0	5.8	9.6	5.7
	32.5	6.9	5.2	7.3	5.5	7.8	5.5	8.1	5.6	8.3	5.8	8.8	5.7	9.4	5.6
	35.0	6.8	5.2	7.2	5.4	7.6	5.4	8.0	5.5	8.1	5.7	8.6	5.6	9.2	5.5
	37.5	6.7	5.2	7.0	5.4	7.4	5.3	7.8	5.5	7.9	5.6	8.5	5.6	9.0	5.5
	40.0	6.6	5.1	6.9	5.3	7.3	5.3	7.7	5.4	7.8	5.6	8.3	5.5	8.8	5.4
	43.0	6.5	5.1	6.7	5.2	7.1	5.2	7.4	5.3	7.4	5.4	8.1	5.4	8.6	5.3

Cooling capacity in combination with PUHY,PUY,PURY-P200,250YGM

PEFY-P-VML-E,VMH-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
80 (9.0)	20.0	8.1	6.1	8.6	6.4	9.3	6.4	9.7	6.6	9.9	6.8	10.6	6.7	11.4	6.7
	22.5	8.1	6.1	8.6	6.4	9.3	6.4	9.7	6.6	9.9	6.8	10.6	6.7	11.4	6.7
	25.0	8.1	6.1	8.6	6.4	9.3	6.4	9.7	6.6	9.9	6.8	10.5	6.7	11.2	6.6
	27.5	8.0	6.1	8.5	6.4	9.1	6.3	9.5	6.5	9.7	6.7	10.3	6.6	11.0	6.5
	30.0	7.9	6.0	8.4	6.3	8.9	6.3	9.4	6.4	9.5	6.6	10.1	6.5	10.8	6.4
	32.5	7.7	5.9	8.2	6.2	8.7	6.2	9.1	6.3	9.3	6.5	9.9	6.4	10.5	6.4
	35.0	7.7	5.9	8.1	6.2	8.6	6.1	9.0	6.3	9.1	6.5	9.7	6.4	10.3	6.3
	37.5	7.6	5.8	7.9	6.1	8.4	6.0	8.8	6.2	8.9	6.4	9.5	6.3	10.1	6.2
	40.0	7.4	5.8	7.7	6.0	8.2	6.0	8.6	6.1	8.8	6.3	9.3	6.2	9.9	6.1
	43.0	7.3	5.7	7.6	5.9	8.0	5.9	8.4	6.0	8.4	6.1	9.1	6.1	9.6	6.0
100 (11.2)	20.0	10.0	8.2	10.7	8.7	11.5	8.7	12.1	8.9	12.4	9.2	13.2	9.2	14.2	9.1
	22.5	10.0	8.2	10.7	8.7	11.5	8.7	12.1	8.9	12.4	9.2	13.2	9.2	14.2	9.1
	25.0	10.0	8.2	10.7	8.7	11.5	8.7	12.1	8.9	12.3	9.2	13.1	9.1	13.9	9.0
	27.5	10.0	8.2	10.6	8.6	11.3	8.6	11.9	8.8	12.0	9.1	12.8	9.0	13.7	8.9
	30.0	9.9	8.2	10.4	8.6	11.1	8.5	11.6	8.7	11.9	9.0	12.5	8.9	13.4	8.8
	32.5	9.6	8.1	10.2	8.5	10.9	8.4	11.4	8.6	11.6	8.9	12.3	8.8	13.1	8.7
	35.0	9.5	8.0	10.0	8.4	10.6	8.3	11.2	8.6	11.4	8.8	12.1	8.8	12.8	8.6
	37.5	9.4	7.9	9.9	8.3	10.4	8.2	10.9	8.5	11.1	8.7	11.9	8.7	12.5	8.5
	40.0	9.2	7.9	9.6	8.2	10.2	8.1	10.8	8.4	10.9	8.7	11.6	8.6	12.3	8.5
	43.0	9.1	7.8	9.4	8.1	10.0	8.0	10.4	8.3	10.4	8.5	11.3	8.5	12.0	8.3
125 (14.0)	20.0	12.5	9.4	13.4	9.9	14.4	9.9	15.1	10.2	15.5	10.5	16.5	10.4	17.7	10.3
	22.5	12.5	9.4	13.4	9.9	14.4	9.9	15.1	10.2	15.5	10.5	16.5	10.4	17.7	10.3
	25.0	12.5	9.4	13.4	9.9	14.4	9.9	15.1	10.2	15.4	10.5	16.4	10.4	17.4	10.2
	27.5	12.5	9.4	13.2	9.9	14.1	9.8	14.8	10.1	15.1	10.4	16.0	10.2	17.1	10.1
	30.0	12.3	9.3	13.0	9.8	13.9	9.7	14.6	10.0	14.8	10.3	15.7	10.1	16.7	10.0
	32.5	12.0	9.2	12.7	9.6	13.6	9.6	14.2	9.8	14.5	10.1	15.4	10.0	16.4	9.9
	35.0	11.9	9.1	12.5	9.5	13.3	9.4	14.0	9.7	14.2	10.0	15.1	9.9	16.0	9.7
	37.5	11.8	9.1	12.3	9.4	13.0	9.3	13.7	9.6	13.9	9.9	14.8	9.8	15.7	9.6
	40.0	11.6	9.0	12.0	9.3	12.8	9.2	13.4	9.5	13.7	9.8	14.5	9.6	15.4	9.5
	43.0	11.3	8.9	11.8	9.2	12.5	9.1	13.0	9.3	13.0	9.5	14.1	9.5	15.0	9.4
140 (16.0)	20.0	14.3	10.8	15.3	11.4	16.5	11.4	17.3	11.7	17.7	12.0	18.9	11.9	20.2	11.8
	22.5	14.3	10.8	15.3	11.4	16.5	11.4	17.3	11.7	17.7	12.0	18.9	11.9	20.2	11.8
	25.0	14.3	10.8	15.3	11.4	16.5	11.4	17.3	11.7	17.6	12.0	18.7	11.9	19.8	11.7
	27.5	14.2	10.8	15.1	11.3	16.2	11.2	17.0	11.5	17.2	11.8	18.3	11.7	19.5	11.6
	30.0	14.1	10.7	14.9	11.2	15.8	11.1	16.6	11.4	17.0	11.7	17.9	11.6	19.1	11.4
	32.5	13.8	10.5	14.6	11.0	15.5	10.9	16.2	11.2	16.6	11.6	17.6	11.4	18.7	11.3
	35.0	13.6	10.4	14.3	10.9	15.2	10.8	16.0	11.1	16.2	11.4	17.3	11.3	18.3	11.1
	37.5	13.4	10.4	14.1	10.8	14.9	10.7	15.6	10.9	15.8	11.3	17.0	11.2	17.9	11.0
	40.0	13.2	10.3	13.8	10.6	14.6	10.6	15.4	10.8	15.6	11.2	16.6	11.0	17.6	10.9
	43.0	13.0	10.1	13.4	10.5	14.2	10.4	14.9	10.6	14.9	10.9	16.2	10.9	17.1	10.7
200 (22.4)	20.0	20.0	15.5	21.4	16.3	23.1	16.3	24.2	16.7	24.8	17.3	26.4	17.1	28.3	17.0
	22.5	20.0	15.5	21.4	16.3	23.1	16.3	24.2	16.7	24.8	17.3	26.4	17.1	28.3	17.0
	25.0	20.0	15.5	21.4	16.3	23.1	16.3	24.2	16.7	24.6	17.3	26.2	17.1	27.8	16.8
	27.5	19.9	15.4	21.2	16.2	22.6	16.1	23.7	16.6	24.1	17.0	25.6	16.8	27.3	16.6
	30.0	19.7	15.3	20.8	16.0	22.2	15.9	23.3	16.4	23.7	16.9	25.1	16.6	26.8	16.4
	32.5	19.3	15.1	20.4	15.8	21.7	15.7	22.7	16.1	23.2	16.7	24.6	16.5	26.2	16.2
	35.0	19.0	15.0	20.0	15.7	21.3	15.5	22.4	16.0	22.7	16.5	24.2	16.3	25.6	16.1
	37.5	18.8	14.9	19.7	15.5	20.8	15.3	21.8	15.8	22.2	16.3	23.7	16.1	25.1	15.9
	40.0	18.5	14.7	19.3	15.3	20.5	15.2	21.5	15.6	21.8	16.1	23.2	15.9	24.6	15.7
	43.0	18.1	14.6	18.8	15.1	19.9	14.9	20.8	15.4	20.8	15.7	22.6	15.7	24.0	15.5
250 (28.0)	20.0	25.1	19.3	26.7	20.3	28.8	20.3	30.2	20.8	30.9	21.5	33.0	21.3	35.4	21.1
	22.5	25.1	19.3	26.7	20.3	28.8	20.3	30.2	20.8	30.9	21.5	33.0	21.3	35.4	21.1
	25.0	25.1	19.3	26.7	20.3	28.8	20.3	30.2	20.8	30.8	21.4	32.8	21.2	34.7	20.9
	27.5	24.9	19.2	26.5	20.1	28.3	20.0	29.7	20.6	30.1	21.2	32.1	20.9	34.2	20.7
	30.0	24.6	19.1	26.0	19.9	27.7	19.8	29.1	20.3	29.7	21.0	31.4	20.7	33.5	20.4
	32.5	24.1	18.8	25.5	19.7	27.2	19.5	28.4	20.0	29.0	20.7	30.8	20.4	32.8	20.2
	35.0	23.8	18.6	25.1	19.5	26.6	19.3	28.0	19.9	28.4	20.5	30.2	20.2	32.1	19.9
	37.5	23.5	18.5	24.6	19.3	26.0	19.0	27.3	19.6	27.7	20.2	29.7	20.0	31.4	19.7
	40.0	23.1	18.3	24.1	19.0	25.6	18.9	26.9	19.4	27.3	20.0	29.0	19.8	30.8	19.5
	43.0	22.7	18.1	23.5	18.8	24.9	18.6	26.0	19.1	26.0	19.5	28.3	19.5	30.0	19.2

2.1b. Heating capacity in combination with PUHY,PUY,PURY-P200,250YGM

PEFY-P-VML-E,VMH-E

SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
20 (2.2)	-20.0	1.3	1.3	1.3	1.3
	-15.0	1.6	1.5	1.5	1.5
	-10.0	1.8	1.8	1.8	1.7
	-5.0	2.1	2.1	2.0	1.8
	0.0	2.4	2.4	2.0	1.8
	2.5	2.5	2.5	2.0	1.8
	6.0	2.6	2.5	2.0	1.8
	7.5	2.7	2.5	2.0	1.8
	10.0	2.9	2.5	2.0	1.8
	12.5	3.0	2.5	2.0	1.8
	15.5	3.2	2.5	2.0	1.8
25 (2.8)	-20.0	1.6	1.6	1.6	1.6
	-15.0	2.0	2.0	1.9	1.9
	-10.0	2.3	2.3	2.2	2.2
	-5.0	2.7	2.7	2.6	2.2
	0.0	3.0	3.0	2.6	2.2
	2.5	3.2	3.2	2.6	2.2
	6.0	3.3	3.2	2.6	2.2
	7.5	3.4	3.2	2.6	2.2
	10.0	3.6	3.2	2.6	2.2
	12.5	3.9	3.2	2.6	2.2
	15.5	4.1	3.2	2.6	2.2
32 (3.6)	-20.0	2.1	2.0	2.0	2.0
	-15.0	2.5	2.4	2.4	2.4
	-10.0	2.9	2.9	2.8	2.7
	-5.0	3.4	3.3	3.2	2.8
	0.0	3.8	3.8	3.2	2.8
	2.5	4.0	4.0	3.2	2.8
	6.0	4.2	4.0	3.2	2.8
	7.5	4.3	4.0	3.2	2.8
	10.0	4.6	4.0	3.2	2.8
	12.5	4.8	4.0	3.2	2.8
	15.5	5.1	4.0	3.2	2.8
40 (4.5)	-20.0	2.6	2.5	2.5	2.5
	-15.0	3.1	3.1	3.0	3.0
	-10.0	3.7	3.6	3.5	3.4
	-5.0	4.2	4.2	4.0	3.5
	0.0	4.7	4.7	4.0	3.5
	2.5	5.0	5.0	4.0	3.5
	6.0	5.2	5.0	4.0	3.5
	7.5	5.4	5.0	4.0	3.5
	10.0	5.7	5.0	4.0	3.5
	12.5	6.0	5.0	4.0	3.5
	15.5	6.4	5.0	4.0	3.5
50 (5.6)	-20.0	3.2	3.2	3.2	3.2
	-15.0	3.9	3.8	3.8	3.7
	-10.0	4.6	4.5	4.4	4.3
	-5.0	5.3	5.2	5.0	4.4
	0.0	6.0	5.9	5.0	4.4
	2.5	6.3	6.2	5.0	4.4
	6.0	6.6	6.3	5.0	4.4
	7.5	6.8	6.3	5.0	4.4
	10.0	7.2	6.3	5.0	4.4
	12.5	7.6	6.3	5.0	4.4
	15.5	8.1	6.3	5.0	4.4
63 (7.1)	-20.0	4.1	4.0	4.0	4.0
	-15.0	5.0	4.9	4.8	4.7
	-10.0	5.8	5.8	5.6	5.5
	-5.0	6.7	6.6	6.4	5.6
	0.0	7.6	7.5	6.4	5.6
	2.5	8.0	7.9	6.4	5.6
	6.0	8.3	8.0	6.4	5.6
	7.5	8.6	8.0	6.4	5.6
	10.0	9.1	8.0	6.4	5.6
	12.5	9.6	8.0	6.4	5.6
	15.5	10.2	8.0	6.4	5.6
71 (8.0)	-20.0	4.6	4.5	4.5	4.5
	-15.0	5.6	5.5	5.4	5.3
	-10.0	6.6	6.5	6.3	6.2
	-5.0	7.6	7.5	7.2	6.3
	0.0	8.5	8.5	7.2	6.3
	2.5	9.0	8.9	7.2	6.3
	6.0	9.4	9.0	7.2	6.3
	7.5	9.7	9.0	7.2	6.3
	10.0	10.3	9.0	7.2	6.3
	12.5	10.8	9.0	7.2	6.3
	15.5	11.5	9.0	7.2	6.3

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
80 (9.0)	-20.0	5.2	5.0	5.0	5.0
	-15.0	6.2	6.1	6.0	5.9
	-10.0	7.3	7.2	7.0	6.9
	-5.0	8.4	8.3	8.0	7.0
	0.0	9.5	9.4	8.0	7.0
	2.5	10.0	9.9	8.0	7.0
	6.0	10.4	10.0	8.0	7.0
	7.5	10.8	10.0	8.0	7.0
	10.0	11.4	10.0	8.0	7.0
	12.5	12.1	10.0	8.0	7.0
	15.5	12.8	10.0	8.0	7.0
100 (11.2)	-20.0	6.4	6.3	6.3	6.3
	-15.0	7.8	7.6	7.5	7.4
	-10.0	9.1	9.0	8.8	8.6
	-5.0	10.5	10.4	10.0	8.8
	0.0	11.8	11.8	10.0	8.8
	2.5	12.5	12.4	10.0	8.8
	6.0	13.0	12.5	10.0	8.8
	7.5	13.4	12.5	10.0	8.8
	10.0	14.3	12.5	10.0	8.8
	12.5	15.1	12.5	10.0	8.8
	15.5	16.0	12.5	10.0	8.8
125 (14.0)	-20.0	8.2	8.0	8.0	8.0
	-15.0	9.9	9.8	9.6	9.4
	-10.0	11.7	11.5	11.2	11.0
	-5.0	13.4	13.3	12.8	11.2
	0.0	15.1	15.0	12.8	11.2
	2.5	16.0	15.8	12.8	11.2
	6.0	16.6	16.0	12.8	11.2
	7.5	17.2	16.0	12.8	11.2
	10.0	18.2	16.0	12.8	11.2
	12.5	19.3	16.0	12.8	11.2
	15.5	20.5	16.0	12.8	11.2
140 (16.0)	-20.0	9.3	9.0	9.0	9.0
	-15.0	11.2	11.0	10.8	10.6
	-10.0	13.1	13.0	12.6	12.3
	-5.0	15.1	14.9	14.4	12.6
	0.0	17.0	16.9	14.4	12.6
	2.5	18.0	17.8	14.4	12.6
	6.0	18.7	18.0	14.4	12.6
	7.5	19.4	18.0	14.4	12.6
	10.0	20.5	18.0	14.4	12.6
	12.5	21.7	18.0	14.4	12.6
	15.5	23.0	18.0	14.4	12.6
200 (22.4)	-20.0	12.9	12.5	12.5	12.5
	-15.0	15.5	15.3	15.0	14.8
	-10.0	18.3	18.0	17.5	17.1
	-5.0	21.0	20.8	20.0	17.5
	0.0	23.6	23.5	20.0	17.5
	2.5	25.0	24.8	20.0	17.5
	6.0	26.0	25.0	20.0	17.5
	7.5	26.9	25.0	20.0	17.5
	10.0	28.5	25.0	20.0	17.5
	12.5	30.1	25.0	20.0	17.5
	15.5	32.0	25.0	20.0	17.5
250 (28.0)	-20.0	16.2	15.8	15.8	15.8
	-15.0	19.5	19.2	18.9	18.6
	-10.0	23.0	22.7	22.1	21.6
	-5.0	26.5	26.1	25.2	22.1
	0.0	29.8	29.6	25.2	22.1
	2.5	31.5	31.2	25.2	22.1
	6.0	32.8	31.5	25.2	22.1
	7.5	33.9	31.5	25.2	22.1
	10.0	35.9	31.5	25.2	22.1
	12.5	38.0	31.5	25.2	22.1
	15.5	40.3	31.5	25.2	22.1

2.2a. Cooling capacity in combination with PUHY,PUY,PURY-P300,350,400YGM

PEFY-P-VML-E,VMH-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.8	2.2	1.9	2.4	1.9	2.5	1.9	2.5	2.0	2.7	2.0	2.9	2.0
	22.5	2.1	1.8	2.2	1.9	2.3	1.9	2.4	1.9	2.5	2.0	2.6	2.0	2.8	1.9
	25.0	2.1	1.8	2.2	1.9	2.3	1.9	2.4	1.9	2.4	2.0	2.6	2.0	2.8	1.9
	27.5	2.1	1.8	2.1	1.9	2.3	1.8	2.3	1.9	2.4	2.0	2.5	1.9	2.7	1.9
	30.0	2.0	1.8	2.1	1.8	2.2	1.8	2.3	1.9	2.4	1.9	2.5	1.9	2.6	1.9
	32.5	2.0	1.8	2.0	1.8	2.2	1.8	2.2	1.9	2.3	1.9	2.4	1.9	2.6	1.9
	35.0	2.0	1.7	2.0	1.8	2.1	1.8	2.2	1.8	2.3	1.9	2.4	1.9	2.5	1.9
	37.5	1.9	1.7	1.9	1.8	2.1	1.8	2.1	1.8	2.2	1.9	2.4	1.9	2.5	1.8
	40.0	1.9	1.7	1.9	1.8	2.0	1.7	2.1	1.8	2.4	2.0	2.3	1.9	2.4	1.8
	43.0	1.8	1.7	1.8	1.7	2.0	1.7	2.0	1.8	2.1	1.9	2.2	1.8	2.4	1.8
25 (2.8)	20.0	2.7	2.2	2.8	2.2	3.0	2.2	3.1	2.3	3.2	2.4	3.4	2.3	3.6	2.3
	22.5	2.7	2.1	2.8	2.2	3.0	2.2	3.1	2.3	3.2	2.3	3.4	2.3	3.6	2.3
	25.0	2.7	2.1	2.7	2.2	2.9	2.2	3.0	2.2	3.1	2.3	3.3	2.3	3.5	2.3
	27.5	2.6	2.1	2.7	2.2	2.9	2.2	3.0	2.2	3.1	2.3	3.2	2.3	3.4	2.2
	30.0	2.6	2.1	2.6	2.1	2.8	2.1	2.9	2.2	3.0	2.3	3.2	2.2	3.4	2.2
	32.5	2.5	2.1	2.6	2.1	2.8	2.1	2.9	2.2	2.9	2.2	3.1	2.2	3.3	2.2
	35.0	2.5	2.1	2.5	2.1	2.7	2.1	2.8	2.1	2.9	2.2	3.1	2.2	3.2	2.2
	37.5	2.5	2.0	2.5	2.1	2.6	2.1	2.7	2.1	2.8	2.2	3.0	2.2	3.2	2.1
	40.0	2.4	2.0	2.4	2.1	2.6	2.0	2.7	2.1	3.0	2.3	2.9	2.2	3.1	2.1
	43.0	2.4	2.0	2.4	2.0	2.5	2.0	2.6	2.1	2.7	2.1	2.8	2.1	3.0	2.1
32 (3.6)	20.0	3.5	2.7	3.6	2.8	3.9	2.8	4.0	2.8	4.2	2.9	4.4	2.9	4.7	2.8
	22.5	3.5	2.7	3.6	2.8	3.8	2.7	4.0	2.8	4.1	2.9	4.3	2.9	4.6	2.8
	25.0	3.4	2.7	3.5	2.7	3.8	2.7	3.9	2.8	4.0	2.9	4.2	2.8	4.5	2.8
	27.5	3.4	2.6	3.5	2.7	3.7	2.7	3.8	2.7	3.9	2.8	4.2	2.8	4.4	2.8
	30.0	3.3	2.6	3.4	2.7	3.6	2.6	3.7	2.7	3.9	2.8	4.1	2.8	4.3	2.7
	32.5	3.3	2.6	3.3	2.6	3.5	2.6	3.7	2.7	3.8	2.8	4.0	2.7	4.2	2.7
	35.0	3.2	2.5	3.3	2.6	3.5	2.6	3.6	2.6	3.7	2.7	3.9	2.7	4.2	2.7
	37.5	3.2	2.5	3.2	2.6	3.4	2.6	3.5	2.6	3.6	2.7	3.9	2.7	4.1	2.6
	40.0	3.1	2.5	3.1	2.5	3.3	2.5	3.4	2.6	3.9	2.8	3.8	2.6	4.0	2.6
	43.0	3.0	2.5	3.0	2.5	3.2	2.5	3.3	2.5	3.4	2.6	3.7	2.6	3.9	2.6
40 (4.5)	20.0	4.4	3.3	4.5	3.4	4.9	3.4	5.0	3.5	5.2	3.6	5.5	3.6	5.9	3.5
	22.5	4.3	3.3	4.5	3.4	4.8	3.4	5.0	3.4	5.1	3.6	5.4	3.5	5.7	3.5
	25.0	4.3	3.3	4.4	3.4	4.7	3.3	4.9	3.4	5.0	3.5	5.3	3.5	5.6	3.4
	27.5	4.2	3.2	4.3	3.3	4.6	3.3	4.8	3.4	4.9	3.5	5.2	3.4	5.5	3.4
	30.0	4.1	3.2	4.2	3.3	4.5	3.3	4.7	3.3	4.8	3.4	5.1	3.4	5.4	3.3
	32.5	4.1	3.2	4.2	3.2	4.4	3.2	4.6	3.3	4.7	3.4	5.0	3.4	5.3	3.3
	35.0	4.0	3.1	4.1	3.2	4.3	3.2	4.5	3.2	4.6	3.4	4.9	3.3	5.2	3.3
	37.5	4.0	3.1	4.0	3.2	4.3	3.1	4.4	3.2	4.5	3.3	4.8	3.3	5.1	3.2
	40.0	3.9	3.1	3.9	3.1	4.2	3.1	4.3	3.2	4.9	3.5	4.7	3.2	5.0	3.2
	43.0	3.8	3.0	3.8	3.1	4.1	3.0	4.2	3.1	4.3	3.2	4.6	3.2	4.8	3.1
50 (5.6)	20.0	5.4	3.9	5.6	4.0	6.0	4.0	6.3	4.0	6.5	4.2	6.9	4.1	7.3	4.1
	22.5	5.4	3.9	5.6	4.0	6.0	3.9	6.2	4.0	6.4	4.1	6.7	4.1	7.1	4.0
	25.0	5.3	3.8	5.5	3.9	5.9	3.9	6.0	3.9	6.2	4.1	6.6	4.0	7.0	4.0
	27.5	5.2	3.8	5.4	3.9	5.7	3.8	5.9	3.9	6.1	4.0	6.5	4.0	6.9	3.9
	30.0	5.2	3.7	5.3	3.8	5.6	3.8	5.8	3.8	6.0	4.0	6.4	3.9	6.7	3.9
	32.5	5.1	3.7	5.2	3.8	5.5	3.7	5.7	3.8	5.9	3.9	6.2	3.9	6.6	3.8
	35.0	5.0	3.6	5.1	3.7	5.4	3.7	5.6	3.7	5.8	3.9	6.1	3.8	6.5	3.8
	37.5	4.9	3.6	5.0	3.7	5.3	3.6	5.5	3.7	5.7	3.8	6.0	3.8	6.3	3.7
	40.0	4.8	3.6	4.8	3.6	5.2	3.6	5.3	3.6	6.1	4.0	5.9	3.7	6.2	3.7
	43.0	4.7	3.5	4.7	3.5	5.0	3.5	5.2	3.6	5.3	3.7	5.7	3.7	6.0	3.6
63 (7.1)	20.0	6.9	5.1	7.1	5.2	7.7	5.2	8.0	5.3	8.2	5.5	8.7	5.5	9.2	5.4
	22.5	6.9	5.1	7.1	5.2	7.6	5.2	7.8	5.3	8.1	5.5	8.5	5.4	9.1	5.3
	25.0	6.8	5.0	7.0	5.2	7.4	5.1	7.7	5.2	7.9	5.4	8.4	5.3	8.9	5.2
	27.5	6.6	5.0	6.8	5.1	7.3	5.1	7.5	5.1	7.8	5.3	8.2	5.3	8.7	5.2
	30.0	6.5	4.9	6.7	5.0	7.1	5.0	7.4	5.1	7.6	5.3	8.1	5.2	8.5	5.1
	32.5	6.4	4.9	6.6	5.0	7.0	4.9	7.2	5.0	7.5	5.2	7.9	5.1	8.4	5.1
	35.0	6.3	4.8	6.4	4.9	6.8	4.9	7.1	5.0	7.3	5.2	7.7	5.1	8.2	5.0
	37.5	6.2	4.8	6.3	4.8	6.7	4.8	6.9	4.9	7.2	5.1	7.6	5.0	8.0	4.9
	40.0	6.1	4.7	6.1	4.8	6.6	4.7	6.8	4.8	7.7	5.3	7.4	5.0	7.8	4.9
	43.0	6.0	4.6	6.0	4.7	6.4	4.7	6.6	4.8	6.8	4.9	7.2	4.9	7.6	4.8
71 (8.0)	20.0	7.8	5.7	8.0	5.9	8.6	5.9	9.0	5.9	9.2	6.2	9.8	6.1	10.4	6.0
	22.5	7.7	5.7	8.0	5.8	8.5	5.8	8.8	5.9	9.1	6.1	9.6	6.0	10.2	5.9
	25.0	7.6	5.6	7.8	5.8	8.4	5.7	8.6	5.8	8.9	6.0	9.4	5.9	10.0	5.9
	27.5	7.5	5.5	7.7	5.7	8.2	5.7	8.5	5.7	8.7	6.0	9.3	5.9	9.8	5.8
	30.0	7.4	5.5	7.5	5.6	8.0	5.6	8.3	5.7	8.6	5.9	9.1	5.8	9.6	5.7
	32.5	7.2	5.4	7.4	5.5	7.9	5.5	8.2	5.6	8.4	5.8	8.9	5.7	9.4	5.6
	35.0	7.1	5.4	7.2	5.5	7.7	5.4	8.0	5.5	8.2	5.7	8.7	5.7	9.2	5.6
	37.5	7.0	5.3	7.1	5.4	7.6	5.4	7.8	5.5	8.1	5.7	8.6	5.6	9.1	5.5
	40.0	6.9	5.3	6.9	5.3	7.4	5.3	7.6	5.4	8.7	5.9	8.4	5.5	8.8	5.4
	43.0	6.7	5.2	6.7	5.2	7.2	5.2	7.4	5.3	7.6	5.5	8.1	5.4	8.6	5.4

Cooling capacity in combination with PUHY,PUY,PURY-P300,350,400YGM

PEFY-P-VML-E,VMH-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
80 (9.0)	20.0	8.7	6.4	9.0	6.6	9.7	6.6	10.1	6.7	10.4	7.0	11.0	6.9	11.7	6.8
	22.5	8.7	6.4	9.0	6.6	9.6	6.6	9.9	6.7	10.2	6.9	10.8	6.8	11.5	6.7
	25.0	8.6	6.4	8.8	6.5	9.4	6.5	9.7	6.6	10.0	6.8	10.6	6.7	11.3	6.6
	27.5	8.4	6.3	8.6	6.4	9.2	6.4	9.5	6.5	9.8	6.7	10.4	6.7	11.0	6.5
	30.0	8.3	6.2	8.5	6.3	9.0	6.3	9.4	6.4	9.6	6.7	10.3	6.6	10.8	6.5
	32.5	8.1	6.1	8.3	6.3	8.9	6.2	9.2	6.3	9.5	6.6	10.0	6.5	10.6	6.4
	35.0	8.0	6.1	8.1	6.2	8.6	6.1	9.0	6.3	9.3	6.5	9.8	6.4	10.4	6.3
	37.5	7.9	6.0	8.0	6.1	8.5	6.1	8.8	6.2	9.1	6.4	9.6	6.3	10.2	6.2
	40.0	7.8	6.0	7.8	6.0	8.3	6.0	8.6	6.1	9.8	6.7	9.4	6.3	9.9	6.2
	43.0	7.6	5.8	7.6	5.9	8.1	5.9	8.4	6.0	8.6	6.2	9.1	6.2	9.7	6.1
100 (11.2)	20.0	10.9	8.6	11.3	8.9	12.1	8.9	12.5	9.1	12.9	9.5	13.7	9.3	14.6	9.2
	22.5	10.8	8.6	11.2	8.9	11.9	8.8	12.3	9.0	12.7	9.4	13.5	9.3	14.3	9.1
	25.0	10.7	8.5	11.0	8.8	11.7	8.7	12.1	8.9	12.5	9.3	13.2	9.2	14.0	9.0
	27.5	10.5	8.4	10.8	8.7	11.5	8.6	11.9	8.8	12.2	9.2	13.0	9.1	13.7	8.9
	30.0	10.3	8.4	10.5	8.6	11.3	8.6	11.6	8.7	12.0	9.1	12.8	9.0	13.4	8.8
	32.5	10.1	8.3	10.4	8.5	11.0	8.5	11.4	8.7	11.8	9.0	12.4	8.9	13.2	8.8
	35.0	10.0	8.2	10.1	8.4	10.8	8.3	11.2	8.6	11.5	8.9	12.2	8.8	12.9	8.7
	37.5	9.9	8.2	9.9	8.3	10.6	8.3	10.9	8.5	11.3	8.8	12.0	8.7	12.7	8.6
	40.0	9.7	8.1	9.7	8.2	10.4	8.2	10.7	8.4	12.2	9.2	11.7	8.6	12.4	8.5
	43.0	9.4	7.9	9.4	8.1	10.1	8.1	10.4	8.3	10.7	8.6	11.4	8.5	12.0	8.4
125 (14.0)	20.0	13.6	10.0	14.1	10.3	15.1	10.3	15.7	10.4	16.2	10.8	17.2	10.7	18.2	10.5
	22.5	13.5	9.9	14.0	10.2	14.9	10.2	15.4	10.3	15.9	10.7	16.8	10.6	17.9	10.4
	25.0	13.4	9.9	13.7	10.1	14.6	10.0	15.1	10.2	15.6	10.6	16.5	10.4	17.5	10.3
	27.5	13.1	9.7	13.4	10.0	14.4	9.9	14.8	10.1	15.3	10.5	16.2	10.3	17.2	10.1
	30.0	12.9	9.6	13.2	9.8	14.1	9.8	14.6	10.0	15.0	10.3	16.0	10.2	16.8	10.0
	32.5	12.7	9.5	13.0	9.7	13.8	9.7	14.3	9.8	14.7	10.2	15.5	10.1	16.5	9.9
	35.0	12.5	9.4	12.7	9.6	13.4	9.5	14.0	9.7	14.4	10.1	15.3	9.9	16.2	9.8
	37.5	12.3	9.3	12.4	9.5	13.2	9.4	13.7	9.6	14.1	10.0	15.0	9.8	15.8	9.7
	40.0	12.1	9.2	12.1	9.3	13.0	9.3	13.4	9.5	15.2	10.4	14.6	9.7	15.5	9.5
	43.0	11.8	9.1	11.8	9.2	12.6	9.1	13.0	9.3	13.4	9.7	14.2	9.5	15.1	9.4
140 (16.0)	20.0	15.5	11.4	16.1	11.8	17.3	11.7	17.9	11.9	18.5	12.4	19.6	12.2	20.8	12.0
	22.5	15.4	11.4	16.0	11.7	17.0	11.6	17.6	11.8	18.2	12.2	19.2	12.1	20.4	11.9
	25.0	15.3	11.3	15.7	11.6	16.7	11.5	17.3	11.7	17.8	12.1	18.9	11.9	20.0	11.7
	27.5	15.0	11.1	15.4	11.4	16.4	11.3	17.0	11.5	17.5	12.0	18.5	11.8	19.6	11.6
	30.0	14.7	11.0	15.0	11.2	16.1	11.2	16.6	11.4	17.1	11.8	18.2	11.7	19.2	11.4
	32.5	14.5	10.9	14.8	11.1	15.8	11.0	16.3	11.2	16.8	11.7	17.8	11.5	18.8	11.3
	35.0	14.2	10.8	14.5	11.0	15.4	10.9	16.0	11.1	16.5	11.5	17.4	11.4	18.5	11.2
	37.5	14.1	10.7	14.2	10.8	15.1	10.8	15.6	10.9	16.2	11.4	17.1	11.2	18.1	11.1
	40.0	13.8	10.6	13.8	10.7	14.8	10.6	15.3	10.8	17.4	11.9	16.7	11.1	17.7	10.9
	43.0	13.4	10.4	13.4	10.5	14.4	10.4	14.9	10.6	15.3	11.0	16.2	10.9	17.2	10.7
200 (22.4)	20.0	21.7	16.3	22.5	16.8	24.2	16.8	25.1	17.1	25.9	17.8	27.4	17.5	29.1	17.3
	22.5	21.6	16.3	22.4	16.8	23.9	16.7	24.6	16.9	25.4	17.6	26.9	17.3	28.6	17.1
	25.0	21.4	16.1	22.0	16.6	23.4	16.5	24.2	16.7	24.9	17.4	26.4	17.1	28.0	16.9
	27.5	20.9	15.9	21.5	16.4	23.0	16.3	23.7	16.6	24.5	17.2	25.9	17.0	27.4	16.7
	30.0	20.6	15.8	21.1	16.2	22.5	16.1	23.3	16.4	24.0	17.0	25.5	16.8	26.9	16.5
	32.5	20.3	15.6	20.7	16.0	22.1	15.9	22.8	16.2	23.5	16.8	24.9	16.5	26.4	16.3
	35.0	19.9	15.4	20.3	15.8	21.5	15.6	22.4	16.0	23.1	16.6	24.4	16.4	25.9	16.1
	37.5	19.7	15.3	19.8	15.6	21.2	15.5	21.8	15.8	22.6	16.4	24.0	16.2	25.4	16.0
	40.0	19.4	15.2	19.4	15.4	20.7	15.3	21.4	15.6	24.3	17.1	23.4	16.0	24.8	15.7
	43.0	18.8	14.9	18.8	15.1	20.2	15.0	20.8	15.4	21.4	15.9	22.7	15.8	24.1	15.5
250 (28.0)	20.0	27.2	20.3	28.1	20.9	30.2	20.9	31.4	21.3	32.3	22.1	34.3	21.8	36.4	21.5
	22.5	27.0	20.2	28.0	20.9	29.8	20.7	30.8	21.0	31.8	21.9	33.7	21.5	35.7	21.2
	25.0	26.7	20.1	27.4	20.6	29.3	20.5	30.2	20.8	31.2	21.6	33.0	21.3	35.0	21.0
	27.5	26.2	19.8	26.9	20.3	28.7	20.2	29.7	20.6	30.6	21.4	32.4	21.1	34.3	20.7
	30.0	25.8	19.6	26.3	20.1	28.1	20.0	29.1	20.3	30.0	21.1	31.9	20.9	33.6	20.5
	32.5	25.3	19.4	25.9	19.9	27.6	19.7	28.6	20.1	29.4	20.9	31.1	20.6	33.0	20.3
	35.0	24.9	19.2	25.3	19.6	26.9	19.4	28.0	19.9	28.8	20.6	30.5	20.3	32.3	20.0
	37.5	24.6	19.1	24.8	19.4	26.5	19.2	27.3	19.6	28.3	20.4	30.0	20.1	31.7	19.8
	40.0	24.2	18.8	24.2	19.1	25.9	19.0	26.7	19.3	30.4	21.3	29.3	19.9	30.9	19.5
	43.0	23.5	18.5	23.5	18.8	25.2	18.7	26.0	19.1	26.7	19.8	28.4	19.6	30.1	19.3

2.2b. Heating capacity in combination with PUHY,PUY,PURY-P300,350,400YGM

PEFY-P-VML-E,VMH-E

SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
20 (2.2)	-20.0	1.3	1.3	1.3	1.2
	-15.0	1.5	1.5	1.5	1.5
	-10.0	1.8	1.8	1.7	1.6
	-5.0	2.0	2.0	1.9	1.6
	0.0	2.3	2.3	1.9	1.6
	2.5	2.4	2.4	1.9	1.6
	6.0	2.6	2.5	1.9	1.6
	7.5	2.7	2.5	1.9	1.6
	10.0	2.8	2.5	1.9	1.6
	12.5	2.9	2.5	1.9	1.6
	15.5	2.9	2.5	1.9	1.6
25 (2.8)	-20.0	1.7	1.6	1.6	1.5
	-15.0	1.9	1.9	1.9	1.9
	-10.0	2.2	2.2	2.2	2.0
	-5.0	2.6	2.6	2.4	2.0
	0.0	2.9	2.9	2.4	2.0
	2.5	3.1	3.0	2.4	2.0
	6.0	3.3	3.2	2.4	2.0
	7.5	3.4	3.2	2.4	2.0
	10.0	3.5	3.2	2.4	2.0
	12.5	3.7	3.2	2.4	2.0
	15.5	3.7	3.2	2.4	2.0
32 (3.6)	-20.0	2.1	2.0	2.0	1.9
	-15.0	2.4	2.4	2.4	2.3
	-10.0	2.8	2.8	2.7	2.6
	-5.0	3.2	3.2	3.0	2.6
	0.0	3.6	3.6	3.0	2.6
	2.5	3.8	3.8	3.0	2.6
	6.0	4.1	4.0	3.0	2.6
	7.5	4.2	4.0	3.0	2.6
	10.0	4.4	4.0	3.0	2.6
	12.5	4.6	4.0	3.0	2.6
	15.5	4.6	4.0	3.0	2.6
40 (4.5)	-20.0	2.6	2.5	2.5	2.4
	-15.0	3.0	3.0	3.0	2.9
	-10.0	3.5	3.5	3.4	3.2
	-5.0	4.0	4.0	3.8	3.2
	0.0	4.5	4.5	3.8	3.2
	2.5	4.8	4.7	3.8	3.2
	6.0	5.1	5.0	3.8	3.2
	7.5	5.3	5.0	3.8	3.2
	10.0	5.5	5.0	3.8	3.2
	12.5	5.8	5.0	3.8	3.2
	15.5	5.8	5.0	3.8	3.2
50 (5.6)	-20.0	3.3	3.2	3.2	3.0
	-15.0	3.8	3.8	3.8	3.7
	-10.0	4.4	4.4	4.3	4.0
	-5.0	5.0	5.0	4.7	4.0
	0.0	5.7	5.7	4.7	4.0
	2.5	6.0	6.0	4.7	4.0
	6.0	6.5	6.3	4.7	4.0
	7.5	6.7	6.3	4.7	4.0
	10.0	7.0	6.3	4.7	4.0
	12.5	7.2	6.3	4.7	4.0
	15.5	7.2	6.3	4.7	4.0
63 (7.1)	-20.0	4.2	4.0	4.0	3.8
	-15.0	4.8	4.8	4.8	4.6
	-10.0	5.6	5.6	5.5	5.1
	-5.0	6.4	6.4	6.0	5.1
	0.0	7.2	7.2	6.0	5.1
	2.5	7.6	7.6	6.0	5.1
	6.0	8.2	8.0	6.0	5.1
	7.5	8.5	8.0	6.0	5.1
	10.0	8.8	8.0	6.0	5.1
	12.5	9.2	8.0	6.0	5.1
	15.5	9.2	8.0	6.0	5.1
71 (8.0)	-20.0	4.7	4.5	4.5	4.3
	-15.0	5.4	5.4	5.4	5.2
	-10.0	6.3	6.3	6.2	5.8
	-5.0	7.2	7.2	6.8	5.8
	0.0	8.1	8.1	6.8	5.8
	2.5	8.6	8.5	6.8	5.8
	6.0	9.2	9.0	6.8	5.8
	7.5	9.5	9.0	6.8	5.8
	10.0	9.9	9.0	6.8	5.8
	12.5	10.4	9.0	6.8	5.8
	15.5	10.4	9.0	6.8	5.8

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
80 (9.0)	-20.0	5.2	5.0	5.0	4.8
	-15.0	6.0	6.0	6.0	5.8
	-10.0	7.0	7.0	6.9	6.4
	-5.0	8.0	8.0	7.5	6.4
	0.0	9.0	9.0	7.5	6.4
	2.5	9.6	9.5	7.5	6.4
	6.0	10.3	10.0	7.5	6.4
	7.5	10.6	10.0	7.5	6.4
	10.0	11.1	10.0	7.5	6.4
	12.5	11.5	10.0	7.5	6.4
	15.5	11.5	10.0	7.5	6.4
100 (11.2)	-20.0	6.5	6.3	6.3	6.0
	-15.0	7.5	7.5	7.5	7.3
	-10.0	8.8	8.8	8.6	8.0
	-5.0	10.0	10.0	9.4	8.0
	0.0	11.3	11.3	9.4	8.0
	2.5	11.9	11.8	9.4	8.0
	6.0	12.8	12.5	9.4	8.0
	7.5	13.3	12.5	9.4	8.0
	10.0	13.8	12.5	9.4	8.0
	12.5	14.4	12.5	9.4	8.0
	15.5	14.4	12.5	9.4	8.0
125 (14.0)	-20.0	8.3	8.0	8.0	7.7
	-15.0	9.6	9.6	9.6	9.3
	-10.0	11.2	11.2	11.0	10.2
	-5.0	12.8	12.8	12.0	10.2
	0.0	14.4	14.4	12.0	10.2
	2.5	15.3	15.1	12.0	10.2
	6.0	16.4	16.0	12.0	10.2
	7.5	17.0	16.0	12.0	10.2
	10.0	17.7	16.0	12.0	10.2
	12.5	18.4	16.0	12.0	10.2
	15.5	18.4	16.0	12.0	10.2
140 (16.0)	-20.0	9.4	9.0	9.0	8.6
	-15.0	10.8	10.8	10.8	10.4
	-10.0	12.6	12.6	12.3	11.5
	-5.0	14.4	14.4	13.5	11.5
	0.0	16.2	16.2	13.5	11.5
	2.5	17.2	17.0	13.5	11.5
	6.0	18.5	18.0	13.5	11.5
	7.5	19.1	18.0	13.5	11.5
	10.0	19.9	18.0	13.5	11.5
	12.5	20.7	18.0	13.5	11.5
	15.5	20.7	18.0	13.5	11.5
200 (22.4)	-20.0	13.0	12.5	12.5	12.0
	-15.0	15.0	15.0	15.0	14.5
	-10.0	17.5	17.5	17.1	16.0
	-5.0	20.0	20.0	18.8	16.0
	0.0	22.5	22.5	18.8	16.0
	2.5	23.9	23.6	18.8	16.0
	6.0	25.6	25.0	18.8	16.0
	7.5	26.5	25.0	18.8	16.0
	10.0	27.6	25.0	18.8	16.0
	12.5	28.8	25.0	18.8	16.0
	15.5	28.8	25.0	18.8	16.0
250 (28.0)	-20.0	16.4	15.8	15.8	15.1
	-15.0	18.9	18.9	18.9	18.3
	-10.0	22.1	22.1	21.6	20.2
	-5.0	25.2	25.2	23.6	20.2
	0.0	28.4	28.4	23.6	20.2
	2.5	30.1	29.8	23.6	20.2
	6.0	32.3	31.5	23.6	20.2
	7.5	33.4	31.5	23.6	20.2
	10.0	34.8	31.5	23.6	20.2
	12.5	36.2	31.5	23.6	20.2
	15.5	36.2	31.5	23.6	20.2

2.3a. Cooling capacity in combination with PUHY,PURY-P450,500,550,600,650YGM

PEFY-P-VML-E,VMH-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.8	2.1	1.9	2.3	1.9	2.4	1.9	2.5	2.0	2.6	2.0	2.8	1.9
	22.5	2.1	1.8	2.1	1.9	2.3	1.8	2.3	1.9	2.4	2.0	2.6	2.0	2.7	1.9
	25.0	2.0	1.8	2.1	1.8	2.2	1.8	2.3	1.9	2.4	2.0	2.6	1.9	2.7	1.9
	27.5	2.0	1.8	2.1	1.8	2.2	1.8	2.3	1.9	2.4	2.0	2.5	1.9	2.6	1.9
	30.0	2.0	1.8	2.0	1.8	2.2	1.8	2.3	1.9	2.4	1.9	2.5	1.9	2.7	1.9
	32.5	2.0	1.8	2.0	1.8	2.2	1.8	2.2	1.8	2.3	1.9	2.5	1.9	2.6	1.9
	35.0	2.0	1.7	2.0	1.8	2.1	1.8	2.2	1.8	2.3	1.9	2.5	1.9	2.6	1.9
	37.5	1.9	1.7	2.0	1.8	2.1	1.8	2.2	1.8	2.3	1.9	2.4	1.9	2.6	1.9
	40.0	1.9	1.7	1.9	1.8	2.1	1.8	2.1	1.8	2.2	1.9	2.4	1.9	2.6	1.9
	43.0	1.9	1.7	1.9	1.8	2.1	1.8	2.1	1.8	2.2	1.9	2.4	1.9	2.6	1.9
25 (2.8)	20.0	2.6	2.1	2.7	2.2	2.9	2.2	3.0	2.2	3.1	2.3	3.3	2.3	3.5	2.3
	22.5	2.6	2.1	2.7	2.2	2.9	2.2	3.0	2.2	3.1	2.3	3.3	2.3	3.5	2.2
	25.0	2.6	2.1	2.7	2.2	2.9	2.2	2.9	2.2	3.1	2.3	3.2	2.3	3.5	2.2
	27.5	2.6	2.1	2.6	2.1	2.8	2.1	2.9	2.2	3.0	2.3	3.2	2.3	3.4	2.2
	30.0	2.5	2.1	2.6	2.1	2.8	2.1	2.9	2.2	3.0	2.3	3.2	2.2	3.4	2.2
	32.5	2.5	2.1	2.6	2.1	2.7	2.1	2.8	2.2	3.0	2.3	3.2	2.2	3.4	2.2
	35.0	2.5	2.1	2.5	2.1	2.7	2.1	2.8	2.1	2.9	2.2	3.1	2.2	3.3	2.2
	37.5	2.5	2.0	2.5	2.1	2.7	2.1	2.8	2.1	2.9	2.2	3.1	2.2	3.3	2.2
	40.0	2.4	2.0	2.5	2.1	2.7	2.1	2.7	2.1	2.9	2.2	3.1	2.2	3.3	2.2
	43.0	2.4	2.0	2.5	2.1	2.6	2.1	2.7	2.1	2.8	2.2	3.0	2.2	3.2	2.2
32 (3.6)	20.0	3.4	2.6	3.5	2.7	3.7	2.7	3.9	2.7	4.0	2.9	4.2	2.8	4.5	2.8
	22.5	3.4	2.6	3.5	2.7	3.7	2.7	3.8	2.7	4.0	2.8	4.2	2.8	4.5	2.8
	25.0	3.3	2.6	3.4	2.7	3.7	2.7	3.8	2.7	3.9	2.8	4.2	2.8	4.4	2.8
	27.5	3.3	2.6	3.4	2.7	3.6	2.7	3.7	2.7	3.9	2.8	4.1	2.8	4.3	2.7
	30.0	3.3	2.6	3.3	2.6	3.6	2.6	3.7	2.7	3.9	2.8	4.1	2.8	4.4	2.7
	32.5	3.2	2.6	3.3	2.6	3.5	2.6	3.6	2.7	3.8	2.8	4.1	2.8	4.3	2.7
	35.0	3.2	2.5	3.3	2.6	3.5	2.6	3.6	2.6	3.7	2.8	4.0	2.7	4.3	2.7
	37.5	3.2	2.5	3.2	2.6	3.5	2.6	3.5	2.6	3.7	2.8	4.0	2.7	4.2	2.7
	40.0	3.1	2.5	3.2	2.6	3.4	2.6	3.5	2.6	3.7	2.7	4.0	2.7	4.2	2.7
	43.0	3.1	2.5	3.2	2.6	3.4	2.5	3.5	2.6	3.6	2.7	3.9	2.7	4.2	2.7
40 (4.5)	20.0	4.3	3.2	4.4	3.3	4.7	3.3	4.8	3.4	5.0	3.5	5.3	3.5	5.7	3.4
	22.5	4.2	3.2	4.3	3.3	4.6	3.3	4.8	3.4	5.0	3.5	5.3	3.5	5.6	3.4
	25.0	4.2	3.2	4.3	3.3	4.6	3.3	4.7	3.3	4.9	3.5	5.2	3.4	5.6	3.4
	27.5	4.1	3.2	4.2	3.3	4.5	3.3	4.7	3.3	4.9	3.5	5.2	3.4	5.4	3.3
	30.0	4.1	3.2	4.2	3.2	4.5	3.2	4.6	3.3	4.8	3.4	5.1	3.4	5.4	3.4
	32.5	4.1	3.1	4.1	3.2	4.4	3.2	4.5	3.3	4.8	3.4	5.1	3.4	5.4	3.3
	35.0	4.0	3.1	4.1	3.2	4.4	3.2	4.5	3.2	4.7	3.4	5.0	3.4	5.4	3.3
	37.5	4.0	3.1	4.0	3.2	4.3	3.2	4.4	3.2	4.7	3.4	5.0	3.3	5.3	3.3
	40.0	3.9	3.1	4.0	3.2	4.3	3.2	4.4	3.2	4.6	3.3	5.0	3.3	5.3	3.3
	43.0	3.9	3.1	3.9	3.1	4.2	3.1	4.3	3.2	4.5	3.3	4.9	3.3	5.2	3.3
50 (5.6)	20.0	5.3	3.8	5.5	3.9	5.8	3.9	6.0	3.9	6.2	4.1	6.6	4.0	7.1	4.0
	22.5	5.3	3.8	5.4	3.9	5.8	3.9	5.9	3.9	6.2	4.1	6.6	4.0	7.0	4.0
	25.0	5.2	3.8	5.3	3.8	5.7	3.8	5.9	3.9	6.1	4.0	6.5	4.0	6.9	3.9
	27.5	5.2	3.7	5.3	3.8	5.7	3.8	5.8	3.8	6.0	4.0	6.4	4.0	6.7	3.9
	30.0	5.1	3.7	5.2	3.8	5.6	3.8	5.8	3.8	6.0	4.0	6.4	3.9	6.8	3.9
	32.5	5.0	3.7	5.2	3.8	5.5	3.7	5.7	3.8	5.9	4.0	6.3	3.9	6.7	3.9
	35.0	5.0	3.6	5.1	3.7	5.5	3.7	5.6	3.7	5.8	3.9	6.3	3.9	6.7	3.8
	37.5	4.9	3.6	5.0	3.7	5.4	3.7	5.5	3.7	5.8	3.9	6.2	3.9	6.6	3.8
	40.0	4.8	3.6	5.0	3.7	5.3	3.7	5.4	3.7	5.7	3.9	6.2	3.9	6.6	3.8
	43.0	4.8	3.6	4.9	3.6	5.3	3.6	5.4	3.7	5.7	3.8	6.0	3.8	6.5	3.8
63 (7.1)	20.0	6.7	5.0	6.9	5.1	7.4	5.1	7.6	5.2	7.9	5.4	8.4	5.3	8.9	5.3
	22.5	6.7	5.0	6.9	5.1	7.3	5.1	7.5	5.1	7.8	5.4	8.3	5.3	8.8	5.2
	25.0	6.6	4.9	6.8	5.1	7.2	5.0	7.5	5.1	7.7	5.3	8.2	5.3	8.8	5.2
	27.5	6.5	4.9	6.7	5.0	7.2	5.0	7.4	5.1	7.7	5.3	8.2	5.2	8.5	5.1
	30.0	6.5	4.9	6.6	5.0	7.1	5.0	7.3	5.1	7.6	5.3	8.1	5.2	8.6	5.1
	32.5	6.4	4.8	6.5	5.0	7.0	4.9	7.2	5.0	7.5	5.2	8.0	5.2	8.5	5.1
	35.0	6.3	4.8	6.4	4.9	6.9	4.9	7.1	5.0	7.4	5.2	8.0	5.2	8.4	5.1
	37.5	6.2	4.8	6.4	4.9	6.8	4.9	7.0	4.9	7.3	5.2	7.8	5.1	8.4	5.1
	40.0	6.1	4.7	6.3	4.8	6.8	4.8	6.9	4.9	7.2	5.1	7.8	5.1	8.3	5.0
	43.0	6.1	4.7	6.2	4.8	6.7	4.8	6.8	4.8	7.2	5.1	7.7	5.1	8.2	5.0
71 (8.0)	20.0	7.6	5.6	7.8	5.7	8.3	5.7	8.6	5.8	8.9	6.0	9.4	5.9	10.1	5.9
	22.5	7.5	5.6	7.7	5.7	8.2	5.7	8.5	5.7	8.8	6.0	9.4	5.9	10.0	5.8
	25.0	7.4	5.5	7.6	5.7	8.2	5.6	8.4	5.7	8.7	5.9	9.3	5.9	9.9	5.8
	27.5	7.4	5.5	7.5	5.6	8.1	5.6	8.3	5.7	8.6	5.9	9.2	5.9	9.6	5.7
	30.0	7.3	5.4	7.4	5.6	8.0	5.6	8.2	5.6	8.6	5.9	9.1	5.8	9.7	5.7
	32.5	7.2	5.4	7.4	5.5	7.8	5.5	8.1	5.6	8.5	5.8	9.0	5.8	9.6	5.7
	35.0	7.1	5.4	7.2	5.5	7.8	5.5	8.0	5.5	8.3	5.8	9.0	5.8	9.5	5.7
	37.5	7.0	5.3	7.2	5.4	7.7	5.4	7.9	5.5	8.3	5.8	8.8	5.7	9.4	5.6
	40.0	6.9	5.3	7.1	5.4	7.6	5.4	7.8	5.4	8.2	5.7	8.8	5.7	9.4	5.6
	43.0	6.9	5.2	7.0	5.4	7.5	5.3	7.7	5.4	8.1	5.7	8.6	5.6	9.3	5.6

Cooling capacity in combination with PUHY,PURY-P450,500,550,600,650YGM

PEFY-P-VML-E,VMH-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
80 (9.0)	20.0	8.5	6.3	8.8	6.5	9.4	6.5	9.6	6.5	10.0	6.8	10.6	6.7	11.3	6.7
	22.5	8.5	6.3	8.7	6.5	9.3	6.4	9.5	6.5	9.9	6.8	10.6	6.7	11.2	6.6
	25.0	8.4	6.2	8.6	6.4	9.2	6.4	9.5	6.5	9.8	6.7	10.4	6.7	11.1	6.6
	27.5	8.3	6.2	8.5	6.3	9.1	6.3	9.4	6.4	9.7	6.7	10.4	6.6	10.8	6.5
	30.0	8.2	6.2	8.4	6.3	9.0	6.3	9.3	6.4	9.6	6.7	10.3	6.6	10.9	6.5
	32.5	8.1	6.1	8.3	6.3	8.8	6.2	9.1	6.3	9.5	6.6	10.2	6.6	10.8	6.5
	35.0	8.0	6.1	8.1	6.2	8.8	6.2	9.0	6.3	9.4	6.5	10.1	6.5	10.7	6.4
	37.5	7.9	6.0	8.1	6.2	8.6	6.1	8.9	6.2	9.3	6.5	9.9	6.5	10.6	6.4
	40.0	7.8	6.0	8.0	6.1	8.6	6.1	8.7	6.2	9.2	6.5	9.9	6.4	10.5	6.4
	43.0	7.7	5.9	7.9	6.1	8.5	6.1	8.6	6.1	9.1	6.4	9.7	6.4	10.4	6.3
100 (11.2)	20.0	10.6	8.5	10.9	8.8	11.6	8.7	12.0	8.9	12.5	9.3	13.2	9.2	14.1	9.1
	22.5	10.5	8.5	10.8	8.7	11.5	8.7	11.9	8.8	12.3	9.2	13.2	9.1	13.9	9.0
	25.0	10.4	8.4	10.7	8.7	11.4	8.6	11.8	8.8	12.2	9.2	13.0	9.1	13.8	9.0
	27.5	10.3	8.4	10.5	8.6	11.3	8.6	11.6	8.7	12.1	9.1	12.9	9.0	13.4	8.8
	30.0	10.2	8.3	10.4	8.6	11.2	8.5	11.5	8.7	12.0	9.1	12.8	9.0	13.6	8.9
	32.5	10.1	8.3	10.3	8.5	11.0	8.4	11.3	8.6	11.9	9.0	12.7	9.0	13.4	8.8
	35.0	10.0	8.2	10.1	8.4	10.9	8.4	11.2	8.6	11.6	9.0	12.5	8.9	13.3	8.8
	37.5	9.9	8.2	10.0	8.4	10.8	8.3	11.0	8.5	11.6	8.9	12.4	8.9	13.2	8.8
	40.0	9.7	8.1	9.9	8.3	10.7	8.3	10.9	8.4	11.4	8.9	12.3	8.8	13.1	8.7
	43.0	9.6	8.1	9.8	8.3	10.5	8.2	10.8	8.4	11.3	8.8	12.1	8.8	13.0	8.7
125 (14.0)	20.0	13.2	9.8	13.7	10.1	14.6	10.0	15.0	10.1	15.6	10.6	16.5	10.4	17.6	10.3
	22.5	13.2	9.8	13.5	10.0	14.4	9.9	14.8	10.1	15.4	10.5	16.5	10.4	17.4	10.2
	25.0	13.0	9.7	13.4	9.9	14.3	9.9	14.7	10.0	15.3	10.4	16.2	10.3	17.3	10.2
	27.5	12.9	9.6	13.2	9.8	14.1	9.8	14.6	10.0	15.1	10.4	16.1	10.3	16.8	10.0
	30.0	12.7	9.5	13.0	9.8	14.0	9.8	14.4	9.9	15.0	10.3	16.0	10.2	16.9	10.1
	32.5	12.6	9.5	12.9	9.7	13.7	9.6	14.1	9.8	14.8	10.3	15.8	10.2	16.8	10.0
	35.0	12.5	9.4	12.7	9.6	13.7	9.6	14.0	9.7	14.6	10.1	15.7	10.1	16.7	10.0
	37.5	12.3	9.3	12.6	9.6	13.4	9.5	13.8	9.6	14.5	10.1	15.5	10.0	16.5	9.9
	40.0	12.1	9.2	12.4	9.5	13.4	9.5	13.6	9.5	14.3	10.0	15.4	10.0	16.4	9.9
	43.0	12.0	9.2	12.3	9.4	13.2	9.4	13.4	9.5	14.1	10.0	15.1	9.9	16.2	9.8
140 (16.0)	20.0	15.1	11.2	15.6	11.5	16.6	11.4	17.1	11.6	17.8	12.1	18.9	11.9	20.2	11.8
	22.5	15.0	11.2	15.4	11.4	16.5	11.4	17.0	11.5	17.6	12.0	18.8	11.9	19.9	11.7
	25.0	14.9	11.1	15.3	11.4	16.3	11.3	16.8	11.5	17.4	11.9	18.6	11.8	19.8	11.7
	27.5	14.7	11.0	15.0	11.2	16.2	11.2	16.6	11.4	17.3	11.9	18.4	11.7	19.2	11.4
	30.0	14.6	10.9	14.9	11.2	16.0	11.2	16.5	11.3	17.1	11.8	18.2	11.7	19.4	11.5
	32.5	14.4	10.8	14.7	11.1	15.7	11.0	16.2	11.2	17.0	11.7	18.1	11.6	19.2	11.4
	35.0	14.2	10.8	14.5	11.0	15.6	11.0	16.0	11.1	16.6	11.6	17.9	11.6	19.0	11.4
	37.5	14.1	10.7	14.4	10.9	15.4	10.9	15.8	11.0	16.6	11.6	17.7	11.5	18.9	11.3
	40.0	13.8	10.6	14.2	10.8	15.3	10.8	15.5	10.9	16.3	11.5	17.6	11.4	18.7	11.3
	43.0	13.8	10.5	14.0	10.8	15.0	10.7	15.4	10.8	16.2	11.4	17.3	11.3	18.6	11.2
200 (22.4)	20.0	21.2	16.0	21.8	16.5	23.3	16.4	24.0	16.6	25.0	17.4	26.4	17.1	28.2	17.0
	22.5	21.1	16.0	21.6	16.4	23.1	16.3	23.7	16.6	24.6	17.3	26.3	17.1	27.9	16.8
	25.0	20.8	15.9	21.4	16.3	22.8	16.2	23.5	16.5	24.4	17.2	26.0	17.0	27.7	16.8
	27.5	20.6	15.8	21.1	16.2	22.6	16.1	23.3	16.4	24.2	17.1	25.8	16.9	26.9	16.5
	30.0	20.4	15.7	20.8	16.0	22.4	16.0	23.1	16.3	24.0	17.0	25.5	16.8	27.1	16.6
	32.5	20.2	15.5	20.6	15.9	22.0	15.8	22.6	16.1	23.7	16.9	25.3	16.7	26.9	16.5
	35.0	19.9	15.4	20.3	15.8	21.8	15.8	22.4	16.0	23.3	16.7	25.1	16.6	26.7	16.4
	37.5	19.7	15.3	20.1	15.7	21.5	15.6	22.1	15.9	23.2	16.7	24.8	16.5	26.4	16.3
	40.0	19.4	15.2	19.8	15.6	21.4	15.6	21.7	15.7	22.8	16.5	24.6	16.5	26.2	16.2
	43.0	19.3	15.1	19.6	15.5	21.1	15.4	21.5	15.6	22.6	16.4	24.2	16.3	26.0	16.2
250 (28.0)	20.0	26.5	19.9	27.3	20.5	29.1	20.4	30.0	20.7	31.2	21.6	33.0	21.3	35.3	21.1
	22.5	26.3	19.9	27.0	20.4	28.8	20.3	29.7	20.6	30.8	21.4	32.9	21.3	34.9	20.9
	25.0	26.0	19.7	26.7	20.3	28.6	20.2	29.4	20.5	30.5	21.3	32.5	21.1	34.6	20.8
	27.5	25.8	19.6	26.3	20.1	28.3	20.0	29.1	20.3	30.2	21.2	32.2	21.0	33.6	20.5
	30.0	25.5	19.5	26.0	19.9	28.0	19.9	28.8	20.2	30.0	21.1	31.9	20.9	33.9	20.6
	32.5	25.2	19.3	25.8	19.8	27.4	19.7	28.3	20.0	29.7	21.0	31.6	20.8	33.6	20.5
	35.0	24.9	19.2	25.3	19.6	27.3	19.6	28.0	19.9	29.1	20.8	31.4	20.7	33.3	20.4
	37.5	24.6	19.1	25.1	19.5	26.9	19.4	27.6	19.7	29.0	20.7	30.9	20.5	33.0	20.3
	40.0	24.2	18.8	24.8	19.4	26.7	19.4	27.2	19.5	28.6	20.5	30.8	20.4	32.8	20.2
	43.0	24.1	18.8	24.5	19.2	26.3	19.2	26.9	19.4	28.3	20.4	30.2	20.2	32.5	20.1

2.3b. Heating capacity in combination with PUHY,PURY-P450,500,550,600,650YGM

PEFY-P-VML-E,VMH-E

SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
20 (2.2)	-20.0	1.3	1.3	1.3	1.3
	-15.0	1.6	1.5	1.5	1.5
	-10.0	1.8	1.8	1.7	1.7
	-5.0	2.1	2.0	1.9	1.8
	0.0	2.3	2.3	2.0	1.8
	2.5	2.4	2.4	2.0	1.8
	6.0	2.6	2.5	2.0	1.8
	7.5	2.7	2.5	2.0	1.8
	10.0	2.8	2.5	2.0	1.8
	12.5	2.9	2.5	2.0	1.8
	15.5	2.9	2.5	2.0	1.8
25 (2.8)	-20.0	1.7	1.6	1.6	1.6
	-15.0	2.0	1.9	1.9	1.9
	-10.0	2.3	2.2	2.2	2.1
	-5.0	2.6	2.6	2.5	2.3
	0.0	2.9	2.9	2.5	2.3
	2.5	3.1	3.0	2.5	2.3
	6.0	3.3	3.2	2.5	2.3
	7.5	3.4	3.2	2.5	2.3
	10.0	3.6	3.2	2.5	2.3
	12.5	3.7	3.2	2.5	2.3
	15.5	3.7	3.2	2.5	2.3
32 (3.6)	-20.0	2.1	2.0	2.0	2.0
	-15.0	2.5	2.4	2.4	2.3
	-10.0	2.9	2.8	2.7	2.6
	-5.0	3.3	3.2	3.1	2.8
	0.0	3.7	3.6	3.2	2.8
	2.5	3.8	3.8	3.2	2.8
	6.0	4.1	4.0	3.2	2.8
	7.5	4.2	4.0	3.2	2.8
	10.0	4.4	4.0	3.2	2.8
	12.5	4.6	4.0	3.2	2.8
	15.5	4.6	4.0	3.2	2.8
40 (4.5)	-20.0	2.7	2.6	2.6	2.5
	-15.0	3.1	3.0	3.0	2.9
	-10.0	3.6	3.5	3.4	3.3
	-5.0	4.1	4.0	3.9	3.5
	0.0	4.6	4.5	4.0	3.5
	2.5	4.8	4.8	4.0	3.5
	6.0	5.2	5.0	4.0	3.5
	7.5	5.3	5.0	4.0	3.5
	10.0	5.6	5.0	4.0	3.5
	12.5	5.8	5.0	4.0	3.5
	15.5	5.8	5.0	4.0	3.5
50 (5.6)	-20.0	3.3	3.2	3.2	3.2
	-15.0	3.9	3.8	3.8	3.7
	-10.0	4.5	4.4	4.3	4.2
	-5.0	5.2	5.0	4.9	4.4
	0.0	5.8	5.7	5.0	4.4
	2.5	6.0	6.0	5.0	4.4
	6.0	6.5	6.3	5.0	4.4
	7.5	6.7	6.3	5.0	4.4
	10.0	7.0	6.3	5.0	4.4
	12.5	7.3	6.3	5.0	4.4
	15.5	7.3	6.3	5.0	4.4
63 (7.1)	-20.0	4.2	4.1	4.1	4.0
	-15.0	5.0	4.8	4.8	4.6
	-10.0	5.8	5.6	5.4	5.3
	-5.0	6.6	6.4	6.2	5.6
	0.0	7.4	7.2	6.4	5.6
	2.5	7.7	7.6	6.4	5.6
	6.0	8.2	8.0	6.4	5.6
	7.5	8.5	8.0	6.4	5.6
	10.0	8.9	8.0	6.4	5.6
	12.5	9.3	8.0	6.4	5.6
	15.5	9.3	8.0	6.4	5.6
71 (8.0)	-20.0	4.8	4.6	4.6	4.5
	-15.0	5.6	5.4	5.4	5.2
	-10.0	6.5	6.3	6.1	5.9
	-5.0	7.4	7.2	6.9	6.3
	0.0	8.3	8.1	7.2	6.3
	2.5	8.6	8.6	7.2	6.3
	6.0	9.3	9.0	7.2	6.3
	7.5	9.5	9.0	7.2	6.3
	10.0	10.0	9.0	7.2	6.3
	12.5	10.4	9.0	7.2	6.3
	15.5	10.4	9.0	7.2	6.3

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
80 (9.0)	-20.0	5.3	5.1	5.1	5.0
	-15.0	6.3	6.1	6.0	5.8
	-10.0	7.2	7.0	6.8	6.6
	-5.0	8.2	8.0	7.7	7.1
	0.0	9.2	9.0	8.0	7.1
	2.5	9.6	9.5	8.0	7.1
	6.0	10.3	10.0	8.0	7.1
	7.5	10.6	10.0	8.0	7.1
	10.0	11.1	10.0	8.0	7.1
	12.5	11.6	10.0	8.0	7.1
	15.5	11.6	10.0	8.0	7.1
100 (11.2)	-20.0	6.6	6.4	6.4	6.3
	-15.0	7.8	7.6	7.5	7.3
	-10.0	9.0	8.8	8.5	8.3
	-5.0	10.3	10.0	9.6	8.8
	0.0	11.5	11.3	9.9	8.8
	2.5	12.0	11.9	9.9	8.8
	6.0	12.9	12.5	9.9	8.8
	7.5	13.3	12.5	9.9	8.8
	10.0	13.9	12.5	9.9	8.8
	12.5	14.5	12.5	9.9	8.8
	15.5	14.5	12.5	9.9	8.8
125 (14.0)	-20.0	8.5	8.2	8.2	8.0
	-15.0	10.0	9.7	9.6	9.3
	-10.0	11.5	11.2	10.9	10.6
	-5.0	13.1	12.8	12.3	11.3
	0.0	14.7	14.4	12.7	11.3
	2.5	15.4	15.2	12.7	11.3
	6.0	16.5	16.0	12.7	11.3
	7.5	17.0	16.0	12.7	11.3
	10.0	17.8	16.0	12.7	11.3
	12.5	18.6	16.0	12.7	11.3
	15.5	18.6	16.0	12.7	11.3
140 (16.0)	-20.0	9.5	9.2	9.2	9.0
	-15.0	11.3	10.9	10.8	10.4
	-10.0	13.0	12.6	12.2	11.9
	-5.0	14.8	14.4	13.9	12.7
	0.0	16.6	16.2	14.3	12.7
	2.5	17.3	17.1	14.3	12.7
	6.0	18.5	18.0	14.3	12.7
	7.5	19.1	18.0	14.3	12.7
	10.0	20.0	18.0	14.3	12.7
	12.5	20.9	18.0	14.3	12.7
	15.5	20.9	18.0	14.3	12.7
200 (22.4)	-20.0	13.3	12.8	12.8	12.5
	-15.0	15.6	15.1	15.0	14.5
	-10.0	18.0	17.5	17.0	16.5
	-5.0	20.5	20.0	19.3	17.6
	0.0	23.0	22.5	19.9	17.6
	2.5	24.0	23.8	19.9	17.6
	6.0	25.8	25.0	19.9	17.6
	7.5	26.5	25.0	19.9	17.6
	10.0	27.8	25.0	19.9	17.6
	12.5	29.0	25.0	19.9	17.6
	15.5	29.0	25.0	19.9	17.6
250 (28.0)	-20.0	16.7	16.1	16.1	15.8
	-15.0	19.7	19.1	18.9	18.3
	-10.0	22.7	22.1	21.4	20.8
	-5.0	25.8	25.2	24.3	22.2
	0.0	29.0	28.4	25.0	22.2
	2.5	30.2	29.9	25.0	22.2
	6.0	32.4	31.5	25.0	22.2
	7.5	33.4	31.5	25.0	22.2
	10.0	35.0	31.5	25.0	22.2
	12.5	36.5	31.5	25.0	22.2
	15.5	36.5	31.5	25.0	22.2

2.4a. Cooling capacity in combination with PUHY-P700,750,800YSGM

PEFY-P-VML-E,VMH-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.8	2.2	1.9	2.4	1.9	2.4	1.9	2.5	2.0	2.7	2.0	2.9	2.0
	22.5	2.1	1.8	2.2	1.9	2.3	1.9	2.4	1.9	2.5	2.0	2.7	2.0	2.8	2.0
	25.0	2.1	1.8	2.1	1.9	2.3	1.9	2.4	1.9	2.4	2.0	2.6	2.0	2.8	1.9
	27.5	2.0	1.8	2.1	1.8	2.2	1.8	2.3	1.9	2.4	2.0	2.6	1.9	2.7	1.9
	30.0	2.0	1.8	2.1	1.8	2.2	1.8	2.3	1.9	2.4	1.9	2.5	1.9	2.7	1.9
	32.5	1.9	1.7	2.0	1.8	2.2	1.8	2.2	1.8	2.3	1.9	2.5	1.9	2.6	1.9
	35.0	1.9	1.7	2.0	1.8	2.1	1.8	2.2	1.8	2.3	1.9	2.4	1.9	2.6	1.9
	37.5	1.9	1.7	2.0	1.8	2.1	1.8	2.2	1.8	2.2	1.9	2.4	1.9	2.5	1.9
	40.0	1.8	1.7	1.9	1.8	2.0	1.7	2.1	1.8	2.2	1.9	2.3	1.9	2.5	1.8
	43.0	1.8	1.7	1.8	1.7	2.0	1.7	2.1	1.8	2.1	1.9	2.3	1.8	2.4	1.8
25 (2.8)	20.0	2.7	2.1	2.8	2.2	3.0	2.2	3.1	2.3	3.2	2.4	3.4	2.3	3.7	2.3
	22.5	2.7	2.1	2.8	2.2	3.0	2.2	3.1	2.2	3.2	2.3	3.4	2.3	3.6	2.3
	25.0	2.6	2.1	2.7	2.2	2.9	2.2	3.0	2.2	3.1	2.3	3.3	2.3	3.5	2.3
	27.5	2.6	2.1	2.7	2.2	2.9	2.2	3.0	2.2	3.1	2.3	3.3	2.3	3.5	2.2
	30.0	2.5	2.1	2.6	2.1	2.8	2.1	2.9	2.2	3.0	2.3	3.2	2.2	3.4	2.2
	32.5	2.5	2.0	2.6	2.1	2.7	2.1	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.2
	35.0	2.4	2.0	2.5	2.1	2.7	2.1	2.8	2.1	2.9	2.2	3.1	2.2	3.3	2.2
	37.5	2.4	2.0	2.5	2.1	2.6	2.1	2.7	2.1	2.8	2.2	3.0	2.2	3.2	2.2
	40.0	2.4	2.0	2.4	2.0	2.6	2.0	2.7	2.1	2.8	2.2	3.0	2.2	3.2	2.1
	43.0	2.3	2.0	2.4	2.0	2.5	2.0	2.6	2.1	2.7	2.2	2.9	2.1	3.1	2.1
32 (3.6)	20.0	3.5	2.7	3.6	2.8	3.9	2.8	4.0	2.8	4.1	2.9	4.4	2.9	4.7	2.9
	22.5	3.4	2.6	3.5	2.7	3.8	2.7	3.9	2.8	4.1	2.9	4.4	2.9	4.6	2.8
	25.0	3.4	2.6	3.5	2.7	3.7	2.7	3.9	2.8	4.0	2.9	4.2	2.8	4.5	2.8
	27.5	3.3	2.6	3.4	2.7	3.7	2.7	3.8	2.7	3.9	2.8	4.2	2.8	4.5	2.8
	30.0	3.2	2.6	3.4	2.7	3.6	2.6	3.7	2.7	3.9	2.8	4.1	2.8	4.4	2.7
	32.5	3.2	2.5	3.3	2.6	3.5	2.6	3.7	2.7	3.8	2.8	4.0	2.7	4.3	2.7
	35.0	3.1	2.5	3.2	2.6	3.5	2.6	3.6	2.6	3.7	2.7	4.0	2.7	4.2	2.7
	37.5	3.1	2.5	3.2	2.6	3.4	2.6	3.5	2.6	3.7	2.7	3.9	2.7	4.1	2.7
	40.0	3.0	2.5	3.1	2.5	3.3	2.5	3.5	2.6	3.6	2.7	3.8	2.7	4.1	2.6
	43.0	3.0	2.4	3.0	2.5	3.2	2.5	3.4	2.5	3.5	2.7	3.7	2.6	4.0	2.6
40 (4.5)	20.0	4.3	3.3	4.5	3.4	4.8	3.4	5.0	3.5	5.2	3.6	5.5	3.6	5.9	3.5
	22.5	4.3	3.3	4.4	3.4	4.7	3.4	4.9	3.4	5.1	3.6	5.4	3.5	5.8	3.5
	25.0	4.2	3.2	4.4	3.3	4.7	3.3	4.8	3.4	5.0	3.5	5.3	3.5	5.7	3.4
	27.5	4.1	3.2	4.3	3.3	4.6	3.3	4.7	3.3	4.9	3.5	5.2	3.4	5.6	3.4
	30.0	4.1	3.1	4.2	3.3	4.5	3.2	4.7	3.3	4.8	3.4	5.1	3.4	5.5	3.4
	32.5	4.0	3.1	4.1	3.2	4.4	3.2	4.6	3.3	4.7	3.4	5.0	3.4	5.4	3.3
	35.0	3.9	3.1	4.1	3.2	4.3	3.2	4.5	3.2	4.6	3.4	5.0	3.3	5.3	3.3
	37.5	3.8	3.0	4.0	3.2	4.3	3.1	4.4	3.2	4.6	3.3	4.9	3.3	5.2	3.3
	40.0	3.8	3.0	3.9	3.1	4.2	3.1	4.3	3.2	4.5	3.3	4.8	3.3	5.1	3.2
	43.0	3.7	3.0	3.8	3.1	4.1	3.0	4.2	3.1	4.4	3.3	4.7	3.2	5.0	3.2
50 (5.6)	20.0	5.4	3.9	5.6	4.0	6.0	4.0	6.2	4.0	6.4	4.2	6.9	4.1	7.3	4.1
	22.5	5.3	3.8	5.5	3.9	5.9	3.9	6.1	4.0	6.3	4.1	6.8	4.1	7.2	4.0
	25.0	5.3	3.8	5.4	3.9	5.8	3.9	6.0	3.9	6.2	4.1	6.6	4.0	7.1	4.0
	27.5	5.2	3.7	5.3	3.8	5.7	3.8	5.9	3.9	6.1	4.0	6.5	4.0	6.9	3.9
	30.0	5.0	3.7	5.2	3.8	5.6	3.8	5.8	3.8	6.0	4.0	6.4	3.9	6.8	3.9
	32.5	5.0	3.6	5.1	3.7	5.5	3.7	5.7	3.8	5.9	3.9	6.3	3.9	6.7	3.9
	35.0	4.9	3.6	5.0	3.7	5.4	3.7	5.6	3.7	5.8	3.9	6.2	3.9	6.6	3.8
	37.5	4.8	3.5	5.0	3.7	5.3	3.6	5.5	3.7	5.7	3.9	6.0	3.8	6.4	3.8
	40.0	4.7	3.5	4.8	3.6	5.2	3.6	5.4	3.7	5.6	3.8	5.9	3.8	6.3	3.7
	43.0	4.6	3.4	4.7	3.5	5.0	3.5	5.2	3.6	5.4	3.7	5.8	3.7	6.2	3.7
63 (7.1)	20.0	6.9	5.1	7.1	5.2	7.6	5.2	7.9	5.3	8.2	5.5	8.7	5.5	9.3	5.4
	22.5	6.7	5.0	7.0	5.2	7.5	5.2	7.8	5.2	8.0	5.5	8.6	5.4	9.1	5.3
	25.0	6.7	5.0	6.9	5.1	7.4	5.1	7.6	5.2	7.9	5.4	8.4	5.3	8.9	5.3
	27.5	6.5	4.9	6.7	5.1	7.2	5.0	7.5	5.1	7.7	5.3	8.3	5.3	8.8	5.2
	30.0	6.4	4.8	6.6	5.0	7.1	5.0	7.3	5.1	7.6	5.3	8.1	5.2	8.7	5.2
	32.5	6.3	4.8	6.5	4.9	7.0	4.9	7.2	5.0	7.5	5.2	8.0	5.2	8.5	5.1
	35.0	6.2	4.7	6.4	4.9	6.8	4.9	7.1	5.0	7.3	5.2	7.8	5.1	8.3	5.0
	37.5	6.1	4.7	6.3	4.9	6.7	4.8	7.0	4.9	7.2	5.1	7.7	5.1	8.2	5.0
	40.0	6.0	4.6	6.1	4.8	6.6	4.7	6.8	4.8	7.1	5.1	7.5	5.0	8.0	4.9
	43.0	5.8	4.6	6.0	4.7	6.4	4.7	6.6	4.8	6.9	5.0	7.3	4.9	7.8	4.9
71 (8.0)	20.0	7.7	5.7	8.0	5.8	8.6	5.8	8.9	5.9	9.2	6.2	9.8	6.1	10.4	6.0
	22.5	7.6	5.6	7.9	5.8	8.4	5.8	8.7	5.9	9.0	6.1	9.7	6.0	10.2	5.9
	25.0	7.5	5.6	7.8	5.7	8.3	5.7	8.6	5.8	8.9	6.0	9.4	5.9	10.1	5.9
	27.5	7.4	5.5	7.6	5.6	8.2	5.6	8.4	5.7	8.7	5.9	9.3	5.9	9.9	5.8
	30.0	7.2	5.4	7.5	5.6	8.0	5.6	8.3	5.7	8.6	5.9	9.1	5.8	9.8	5.8
	32.5	7.1	5.3	7.3	5.5	7.8	5.5	8.1	5.6	8.4	5.8	9.0	5.8	9.6	5.7
	35.0	7.0	5.3	7.2	5.5	7.7	5.4	8.0	5.5	8.2	5.7	8.8	5.7	9.4	5.6
	37.5	6.8	5.2	7.1	5.4	7.6	5.4	7.8	5.5	8.1	5.7	8.6	5.6	9.2	5.6
	40.0	6.7	5.2	6.9	5.3	7.4	5.3	7.7	5.4	8.0	5.6	8.5	5.6	9.0	5.5
	43.0	6.6	5.1	6.7	5.2	7.2	5.2	7.5	5.3	7.8	5.5	8.3	5.5	8.8	5.4

Cooling capacity in combination with PUHY-P700,750,800YSGM

PEFY-P-VML-E,VMH-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
80 (9.0)	20.0	8.7	6.4	9.0	6.6	9.7	6.6	10.0	6.7	10.4	7.0	11.1	6.9	11.7	6.8
	22.5	8.6	6.3	8.9	6.5	9.5	6.5	9.8	6.6	10.2	6.9	10.9	6.8	11.5	6.7
	25.0	8.5	6.3	8.7	6.5	9.4	6.5	9.7	6.6	10.0	6.8	10.6	6.7	11.3	6.7
	27.5	8.3	6.2	8.6	6.4	9.2	6.4	9.5	6.5	9.8	6.7	10.5	6.7	11.2	6.6
	30.0	8.1	6.1	8.4	6.3	9.0	6.3	9.3	6.4	9.6	6.7	10.3	6.6	11.0	6.5
	32.5	8.0	6.0	8.2	6.2	8.8	6.2	9.1	6.3	9.5	6.6	10.1	6.5	10.8	6.4
	35.0	7.8	6.0	8.1	6.2	8.6	6.1	9.0	6.3	9.3	6.5	9.9	6.4	10.5	6.4
	37.5	7.7	5.9	8.0	6.1	8.5	6.1	8.8	6.2	9.1	6.5	9.7	6.4	10.4	6.3
	40.0	7.6	5.8	7.7	6.0	8.3	6.0	8.6	6.1	9.0	6.4	9.5	6.3	10.1	6.2
	43.0	7.4	5.8	7.6	5.9	8.1	5.9	8.4	6.0	8.7	6.3	9.3	6.2	9.9	6.1
100 (11.2)	20.0	10.8	8.6	11.2	8.9	12.0	8.9	12.5	9.1	12.9	9.4	13.8	9.4	14.6	9.2
	22.5	10.6	8.5	11.0	8.8	11.8	8.8	12.2	9.0	12.7	9.4	13.6	9.3	14.3	9.1
	25.0	10.5	8.5	10.9	8.8	11.6	8.7	12.0	8.9	12.4	9.3	13.2	9.2	14.1	9.1
	27.5	10.3	8.4	10.6	8.7	11.4	8.6	11.8	8.8	12.2	9.2	13.0	9.1	13.9	9.0
	30.0	10.1	8.3	10.5	8.6	11.2	8.5	11.6	8.7	12.0	9.1	12.8	9.0	13.7	8.9
	32.5	9.9	8.2	10.2	8.5	11.0	8.4	11.4	8.6	11.8	9.0	12.5	8.9	13.4	8.8
	35.0	9.7	8.1	10.1	8.4	10.8	8.3	11.2	8.6	11.5	8.9	12.3	8.8	13.1	8.7
	37.5	9.6	8.0	10.0	8.3	10.6	8.3	11.0	8.5	11.4	8.8	12.1	8.8	12.9	8.6
	40.0	9.4	7.9	9.6	8.2	10.4	8.2	10.8	8.4	11.1	8.8	11.9	8.7	12.6	8.6
	43.0	9.2	7.8	9.4	8.1	10.1	8.1	10.5	8.3	10.9	8.7	11.6	8.6	12.3	8.5
125 (14.0)	20.0	13.5	9.9	14.0	10.2	15.1	10.2	15.6	10.4	16.1	10.8	17.2	10.7	18.3	10.6
	22.5	13.3	9.8	13.8	10.1	14.8	10.1	15.3	10.3	15.8	10.7	16.9	10.6	17.9	10.4
	25.0	13.2	9.8	13.6	10.0	14.6	10.0	15.1	10.2	15.5	10.6	16.5	10.4	17.6	10.3
	27.5	12.9	9.6	13.3	9.9	14.3	9.9	14.8	10.0	15.3	10.4	16.3	10.4	17.4	10.2
	30.0	12.6	9.5	13.1	9.8	14.0	9.8	14.5	9.9	15.0	10.3	16.0	10.2	17.1	10.1
	32.5	12.4	9.4	12.8	9.7	13.7	9.6	14.2	9.8	14.7	10.2	15.7	10.1	16.7	10.0
	35.0	12.2	9.3	12.6	9.6	13.4	9.5	14.0	9.7	14.4	10.1	15.4	10.0	16.4	9.9
	37.5	12.0	9.2	12.5	9.5	13.2	9.4	13.7	9.6	14.2	10.0	15.1	9.9	16.1	9.8
	40.0	11.8	9.1	12.0	9.3	13.0	9.3	13.4	9.5	13.9	9.9	14.8	9.8	15.8	9.6
	43.0	11.5	8.9	11.8	9.2	12.6	9.1	13.1	9.3	13.6	9.7	14.5	9.6	15.4	9.5
140 (16.0)	20.0	15.4	11.4	16.0	11.7	17.2	11.7	17.8	11.9	18.4	12.3	19.7	12.2	20.9	12.1
	22.5	15.2	11.2	15.8	11.6	16.9	11.6	17.5	11.7	18.1	12.2	19.4	12.1	20.5	11.9
	25.0	15.0	11.2	15.5	11.5	16.6	11.4	17.2	11.6	17.8	12.1	18.9	11.9	20.2	11.8
	27.5	14.7	11.0	15.2	11.3	16.3	11.3	16.9	11.5	17.4	11.9	18.6	11.8	19.8	11.7
	30.0	14.4	10.8	15.0	11.2	16.0	11.2	16.6	11.3	17.1	11.8	18.2	11.7	19.5	11.6
	32.5	14.2	10.7	14.6	11.1	15.7	11.0	16.2	11.2	16.8	11.7	17.9	11.6	19.1	11.4
	35.0	13.9	10.6	14.4	10.9	15.4	10.9	16.0	11.1	16.5	11.5	17.6	11.4	18.7	11.3
	37.5	13.7	10.5	14.2	10.9	15.1	10.8	15.7	11.0	16.2	11.4	17.3	11.3	18.4	11.2
	40.0	13.4	10.4	13.8	10.6	14.8	10.6	15.4	10.8	15.9	11.3	17.0	11.2	18.0	11.0
	43.0	13.1	10.2	13.4	10.5	14.4	10.4	15.0	10.7	15.5	11.1	16.6	11.0	17.6	10.9
200 (22.4)	20.0	21.6	16.3	22.4	16.8	24.1	16.8	24.9	17.0	25.8	17.7	27.6	17.6	29.2	17.3
	22.5	21.3	16.1	22.1	16.6	23.6	16.6	24.5	16.9	25.3	17.5	27.1	17.4	28.7	17.1
	25.0	21.1	16.0	21.7	16.5	23.3	16.4	24.1	16.7	24.9	17.4	26.4	17.1	28.2	17.0
	27.5	20.6	15.8	21.3	16.3	22.8	16.2	23.6	16.5	24.4	17.2	26.1	17.0	27.8	16.8
	30.0	20.2	15.5	20.9	16.1	22.4	16.0	23.2	16.3	24.0	17.0	25.5	16.8	27.3	16.6
	32.5	19.8	15.4	20.5	15.9	22.0	15.8	22.7	16.1	23.5	16.8	25.1	16.6	26.8	16.4
	35.0	19.5	15.2	20.2	15.7	21.5	15.6	22.4	16.0	23.1	16.6	24.6	16.5	26.2	16.2
	37.5	19.2	15.1	19.9	15.6	21.2	15.5	22.0	15.8	22.7	16.5	24.2	16.3	25.8	16.1
	40.0	18.8	14.9	19.3	15.3	20.7	15.3	21.5	15.6	22.3	16.3	23.7	16.1	25.2	15.9
	43.0	18.4	14.7	18.8	15.1	20.2	15.0	20.9	15.4	21.7	16.1	23.2	15.9	24.6	15.7
250 (28.0)	20.0	27.0	20.2	28.0	20.9	30.1	20.8	31.2	21.2	32.2	22.0	34.4	21.9	36.5	21.5
	22.5	26.6	20.0	27.6	20.7	29.5	20.6	30.6	21.0	31.6	21.8	33.9	21.6	35.8	21.3
	25.0	26.3	19.9	27.2	20.5	29.1	20.4	30.1	20.7	31.1	21.6	33.0	21.3	35.3	21.1
	27.5	25.8	19.6	26.6	20.2	28.6	20.2	29.5	20.5	30.5	21.3	32.6	21.1	34.7	20.9
	30.0	25.2	19.3	26.2	20.0	28.0	19.9	29.0	20.3	30.0	21.1	31.9	20.9	34.2	20.7
	32.5	24.8	19.1	25.6	19.7	27.4	19.7	28.4	20.0	29.4	20.9	31.4	20.7	33.5	20.4
	35.0	24.4	18.9	25.2	19.5	26.9	19.4	28.0	19.9	28.8	20.6	30.8	20.4	32.8	20.2
	37.5	23.9	18.7	24.9	19.4	26.5	19.2	27.4	19.6	28.4	20.5	30.2	20.2	32.2	20.0
	40.0	23.5	18.5	24.1	19.0	25.9	19.0	26.9	19.4	27.9	20.2	29.7	20.0	31.5	19.7
	43.0	23.0	18.2	23.5	18.8	25.2	18.7	26.2	19.1	27.2	20.0	29.0	19.8	30.8	19.5

2.4b. Heating capacity in combination with PUHY-P700,750,800YSGM

PEFY-P-VML-E,VMH-E

SHC:Sensible Heat Capacity(kW)

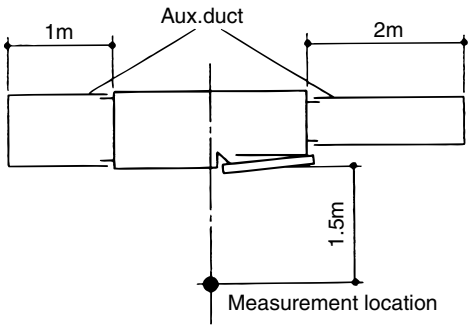
Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
20 (2.2)	-20.0	1.3	1.3	1.3	1.2
	-15.0	1.5	1.5	1.5	1.5
	-10.0	1.8	1.8	1.7	1.7
	-5.0	2.0	2.0	1.9	1.8
	0.0	2.3	2.2	2.0	1.8
	2.5	2.4	2.4	2.0	1.8
	6.0	2.6	2.5	2.0	1.8
	7.5	2.7	2.5	2.0	1.8
	10.0	2.8	2.5	2.0	1.8
	12.5	2.9	2.5	2.0	1.8
	15.5	2.9	2.5	2.0	1.8
25 (2.8)	-20.0	1.6	1.6	1.6	1.6
	-15.0	2.0	1.9	1.9	1.9
	-10.0	2.3	2.2	2.2	2.1
	-5.0	2.6	2.6	2.5	2.4
	0.0	2.9	2.9	2.5	2.4
	2.5	3.1	3.0	2.5	2.4
	6.0	3.3	3.2	2.5	2.4
	7.5	3.4	3.2	2.5	2.4
	10.0	3.6	3.2	2.5	2.4
	12.5	3.7	3.2	2.5	2.4
	15.5	3.7	3.2	2.5	2.4
32 (3.6)	-20.0	2.0	2.0	2.0	2.0
	-15.0	2.4	2.4	2.4	2.3
	-10.0	2.8	2.8	2.7	2.7
	-5.0	3.2	3.2	3.1	2.9
	0.0	3.6	3.6	3.2	2.9
	2.5	3.8	3.8	3.2	2.9
	6.0	4.1	4.0	3.2	2.9
	7.5	4.2	4.0	3.2	2.9
	10.0	4.4	4.0	3.2	2.9
	12.5	4.6	4.0	3.2	2.9
	15.5	4.6	4.0	3.2	2.9
40 (4.5)	-20.0	2.5	2.5	2.5	2.5
	-15.0	3.1	3.0	3.0	2.9
	-10.0	3.6	3.5	3.4	3.4
	-5.0	4.1	4.0	3.9	3.7
	0.0	4.6	4.5	4.0	3.7
	2.5	4.8	4.7	4.0	3.7
	6.0	5.2	5.0	4.0	3.7
	7.5	5.3	5.0	4.0	3.7
	10.0	5.6	5.0	4.0	3.7
	12.5	5.8	5.0	4.0	3.7
	15.5	5.8	5.0	4.0	3.7
50 (5.6)	-20.0	3.2	3.2	3.2	3.1
	-15.0	3.8	3.8	3.7	3.7
	-10.0	4.5	4.4	4.3	4.2
	-5.0	5.1	5.0	4.9	4.6
	0.0	5.7	5.6	5.0	4.6
	2.5	6.0	5.9	5.0	4.6
	6.0	6.5	6.3	5.0	4.6
	7.5	6.7	6.3	5.0	4.6
	10.0	7.0	6.3	5.0	4.6
	12.5	7.3	6.3	5.0	4.6
	15.5	7.3	6.3	5.0	4.6
63 (7.1)	-20.0	4.0	4.0	4.0	3.9
	-15.0	4.9	4.8	4.8	4.6
	-10.0	5.7	5.6	5.4	5.4
	-5.0	6.5	6.4	6.2	5.9
	0.0	7.3	7.2	6.4	5.9
	2.5	7.7	7.5	6.4	5.9
	6.0	8.2	8.0	6.4	5.9
	7.5	8.5	8.0	6.4	5.9
	10.0	8.9	8.0	6.4	5.9
	12.5	9.3	8.0	6.4	5.9
	15.5	9.3	8.0	6.4	5.9
71 (8.0)	-20.0	4.5	4.5	4.5	4.4
	-15.0	5.5	5.4	5.4	5.2
	-10.0	6.4	6.3	6.1	6.0
	-5.0	7.3	7.2	6.9	6.6
	0.0	8.2	8.1	7.2	6.6
	2.5	8.6	8.5	7.2	6.6
	6.0	9.3	9.0	7.2	6.6
	7.5	9.5	9.0	7.2	6.6
	10.0	10.0	9.0	7.2	6.6
	12.5	10.4	9.0	7.2	6.6
	15.5	10.4	9.0	7.2	6.6

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
80 (9.0)	-20.0	5.0	5.0	5.0	4.9
	-15.0	6.1	6.0	6.0	5.8
	-10.0	7.1	7.0	6.8	6.7
	-5.0	8.1	8.0	7.7	7.4
	0.0	9.1	9.0	8.0	7.4
	2.5	9.6	9.4	8.0	7.4
	6.0	10.3	10.0	8.0	7.4
	7.5	10.6	10.0	8.0	7.4
	10.0	11.1	10.0	8.0	7.4
	12.5	11.6	10.0	8.0	7.4
	15.5	11.6	10.0	8.0	7.4
100 (11.2)	-20.0	6.3	6.3	6.3	6.1
	-15.0	7.6	7.5	7.4	7.3
	-10.0	8.9	8.8	8.5	8.4
	-5.0	10.1	10.0	9.6	9.2
	0.0	11.4	11.2	9.9	9.2
	2.5	12.0	11.8	9.9	9.2
	6.0	12.9	12.5	9.9	9.2
	7.5	13.3	12.5	9.9	9.2
	10.0	13.9	12.5	9.9	9.2
	12.5	14.5	12.5	9.9	9.2
	15.5	14.5	12.5	9.9	9.2
125 (14.0)	-20.0	8.0	8.0	8.0	7.8
	-15.0	9.8	9.6	9.5	9.3
	-10.0	11.4	11.2	10.9	10.7
	-5.0	13.0	12.8	12.3	11.8
	0.0	14.6	14.3	12.7	11.8
	2.5	15.4	15.0	12.7	11.8
	6.0	16.5	16.0	12.7	11.8
	7.5	17.0	16.0	12.7	11.8
	10.0	17.8	16.0	12.7	11.8
	12.5	18.6	16.0	12.7	11.8
	15.5	18.6	16.0	12.7	11.8
140 (16.0)	-20.0	9.0	9.0	9.0	8.8
	-15.0	11.0	10.8	10.7	10.4
	-10.0	12.8	12.6	12.2	12.1
	-5.0	14.6	14.4	13.9	13.2
	0.0	16.4	16.1	14.3	13.2
	2.5	17.3	16.9	14.3	13.2
	6.0	18.5	18.0	14.3	13.2
	7.5	19.1	18.0	14.3	13.2
	10.0	20.0	18.0	14.3	13.2
	12.5	20.9	18.0	14.3	13.2
	15.5	20.9	18.0	14.3	13.2
200 (22.4)	-20.0	12.5	12.5	12.5	12.3
	-15.0	15.3	15.0	14.9	14.5
	-10.0	17.8	17.5	17.0	16.8
	-5.0	20.3	20.0	19.3	18.4
	0.0	22.8	22.4	19.9	18.4
	2.5	24.0	23.5	19.9	18.4
	6.0	25.8	25.0	19.9	18.4
	7.5	26.5	25.0	19.9	18.4
	10.0	27.8	25.0	19.9	18.4
	12.5	29.0	25.0	19.9	18.4
	15.5	29.0	25.0	19.9	18.4
250 (28.0)	-20.0	15.8	15.8	15.8	15.4
	-15.0	19.2	18.9	18.7	18.3
	-10.0	22.4	22.1	21.4	21.1
	-5.0	25.5	25.2	24.3	23.2
	0.0	28.7	28.2	25.0	23.2
	2.5	30.2	29.6	25.0	23.2
	6.0	32.4	31.5	25.0	23.2
	7.5	33.4	31.5	25.0	23.2
	10.0	35.0	31.5	25.0	23.2
	12.5	36.5	31.5	25.0	23.2
	15.5	36.5	31.5	25.0	23.2

3. Sound Levels

3.1 Noise levels(VML-E)

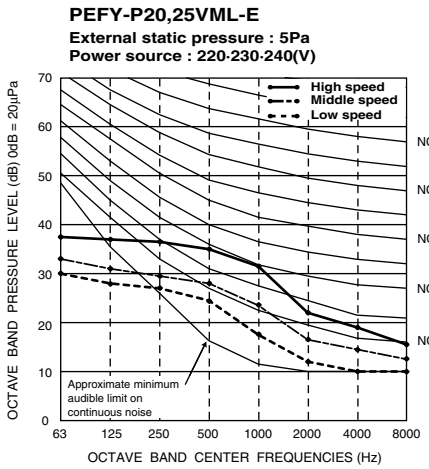
① Rear inlet model1

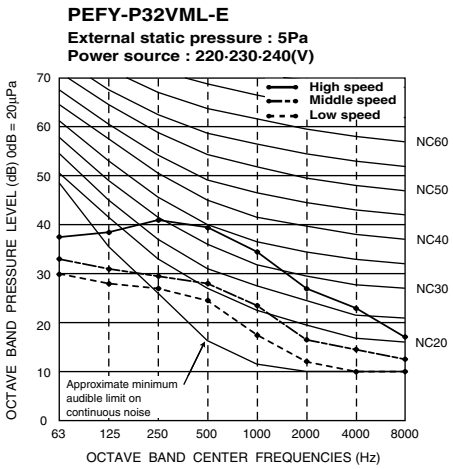


Noise level at anechoic room (Low-Mid-High) Unit : dB(A)

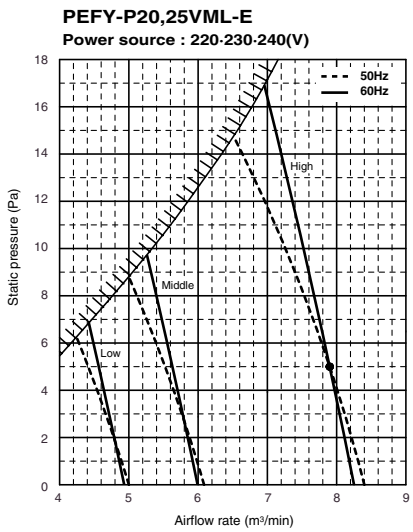
Model	Noise level (A weighted)
PEFY-P20VML-E PEFY-P25VML-E	25-29-36
PEFY-P32VML-E	25-29-40

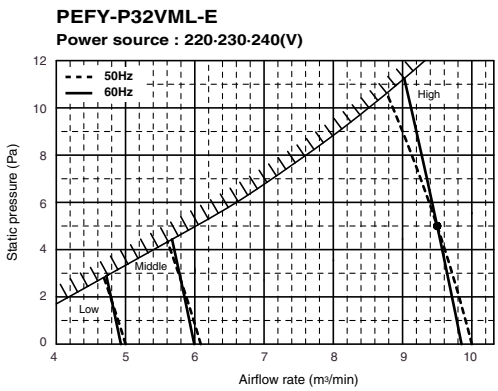
3.2 NC curves(VML-E)



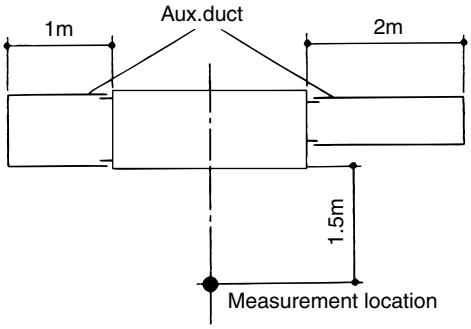


3.3 Fan characteristics curves(VML-E)





3.4 Noise levels(VMH-E)



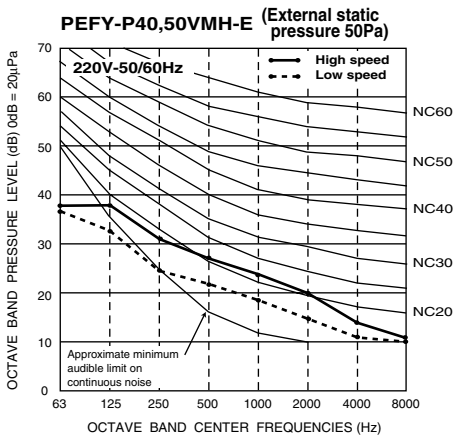
Noise level at anechoic room (Low-High) Unit : dB(A)

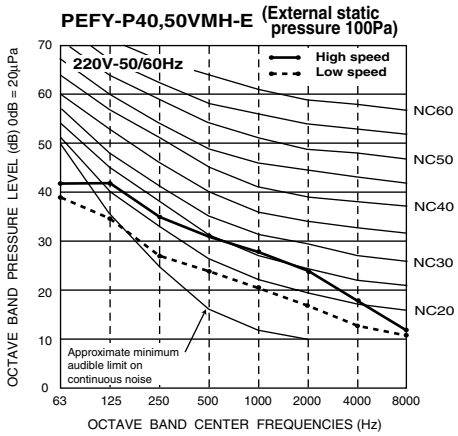
Model		External static pressure❊		
		Low	Mid	High
PEFY-P40, 50 VMH-E	220V	25-30	27-34	30-40
	230, 240V	30-34	31-37	31-41
PEFY-P63VMH-E	220V	31-36	32-38	36-43
	230, 240V	35-39	36-41	38-44
PEFY-P71VMH-E	220V	30-36	32-39	35-43
	230, 240V	34-39	35-41	37-44
PEFY-P80VMH-E	220V	32-39	35-41	37-43
	230, 240V	37-41	38-43	39-45
PEFY-P100, 125, 140VMH-E	220V	32-40	34-42	36-46
	230, 240V	36-42	38-44	38-47
PEFY-P200VMH-E	380V	42	–	45
	400, 415V	44	–	47
PEFY-P250VMH-E	380V	50	–	52
	400, 415V	52	–	54

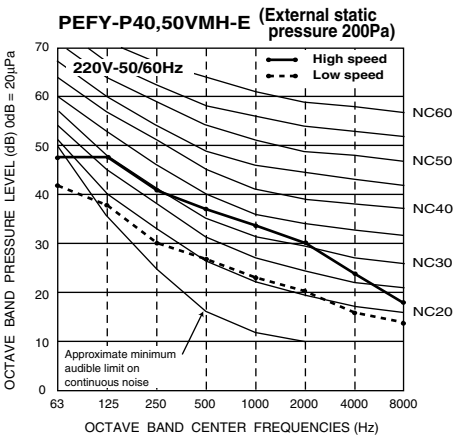
❊ PEFY-P40~140VMH-E
Low : 50Pa (at 220V) / 100Pa (at 230, 240V)
Mid : 100Pa (at 220V) / 150Pa (at 230, 240V)
High : 200Pa (at 220, 230, 240V)

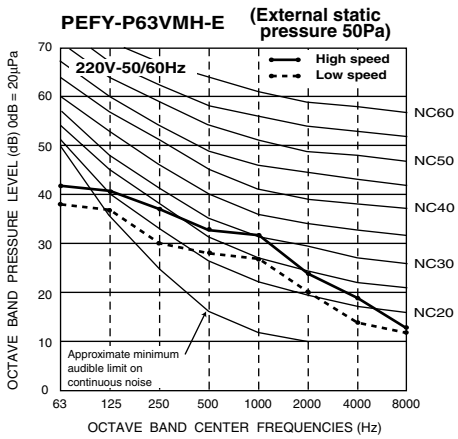
❊ PEFY-P200, 250VMH-E
Low : 110Pa (at 380V) / 130Pa (at 400, 415V)
High : 220Pa (at 380V) / 260Pa (at 400, 415V)

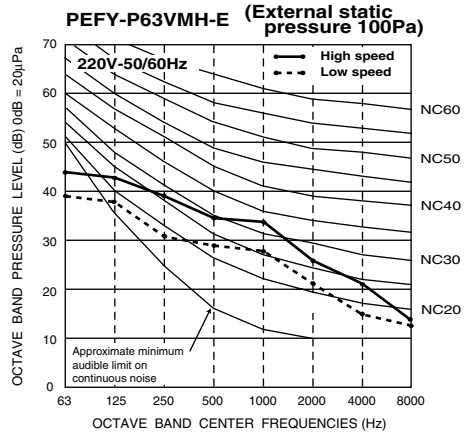
3.5 NC curves(VMH-E)

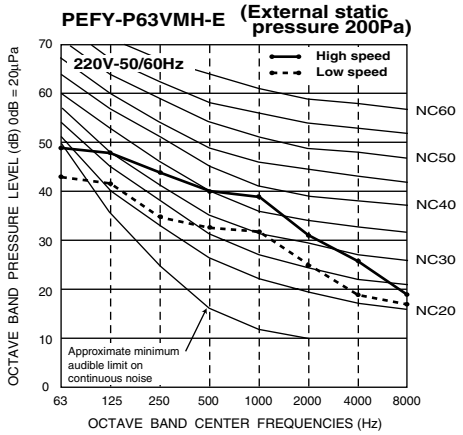


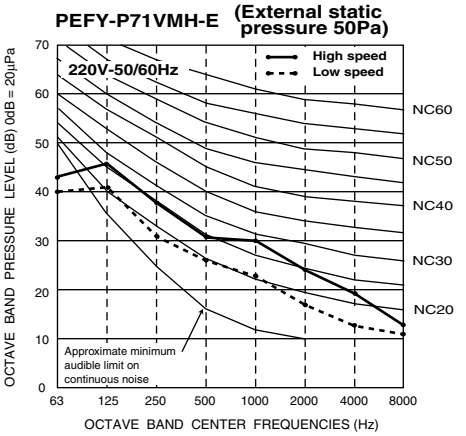


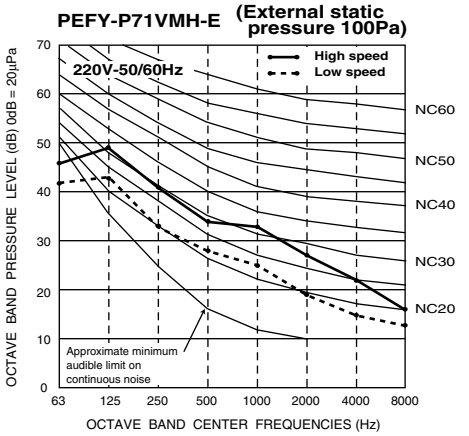


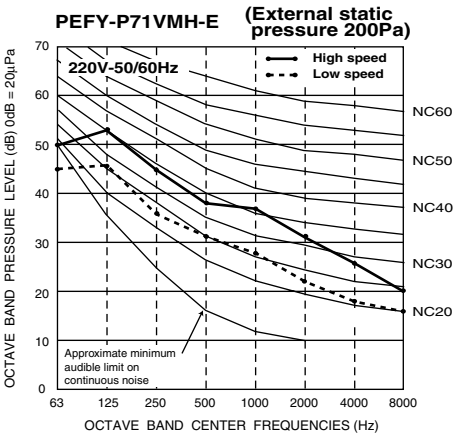


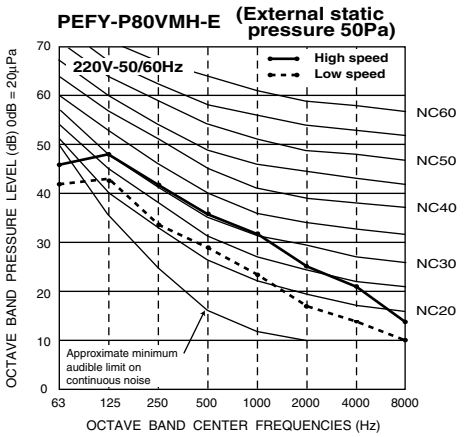

PEFY-P63VMH-E (External static pressure 100Pa)
220V-50/60Hz
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB = 20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

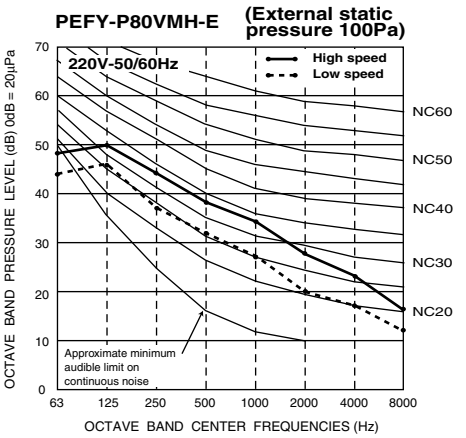

PEFY-P63VMH-E (External static pressure 200Pa)
220V-50/60Hz
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB = 20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

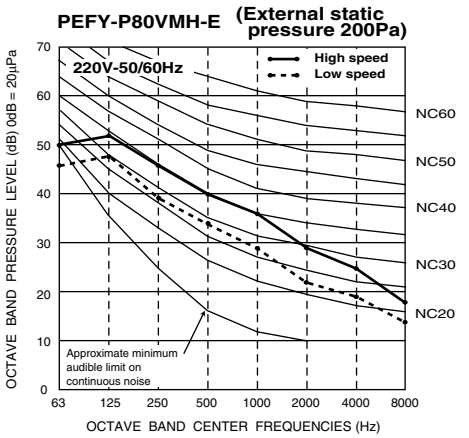

PEFY-P71VMH-E (External static pressure 50Pa)
220V-50/60Hz
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB = 20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)


PEFY-P71VMH-E (External static pressure 100Pa)
220V-50/60Hz
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB = 20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

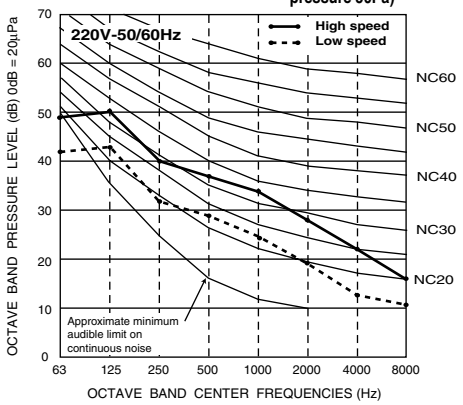

PEFY-P71VMH-E (External static pressure 200Pa)
220V-50/60Hz
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB = 20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)


PEFY-P80VMH-E (External static pressure 50Pa)
220V-50/60Hz
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB = 20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

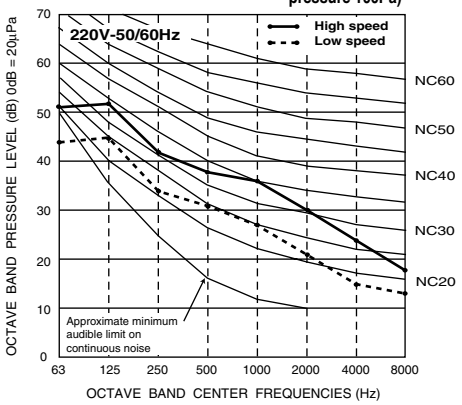

PEFY-P80VMH-E (External static pressure 100Pa)
220V-50/60Hz
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB = 20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)


PEFY-P80VMH-E (External static pressure 200Pa)
220V-50/60Hz
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB = 20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

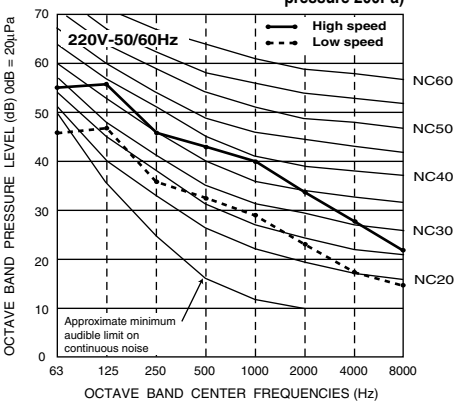
PEFY-P100,125,140VMH-E (External static pressure 50Pa)



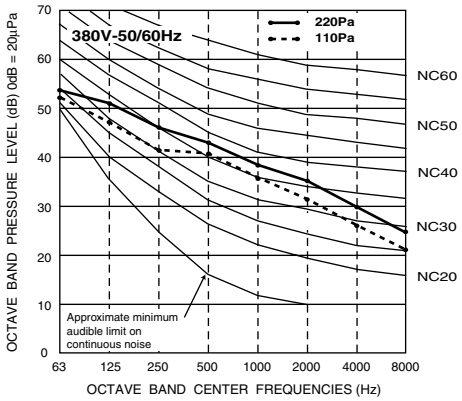
PEFY-P100,125,140VMH-E (External static pressure 100Pa)



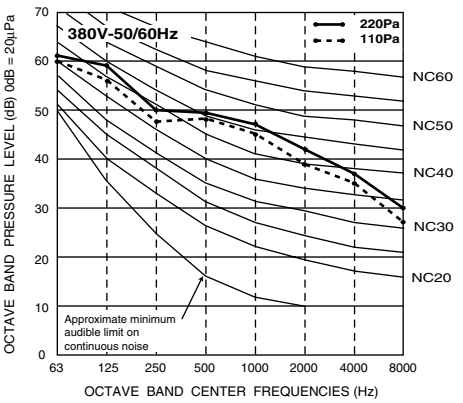
PEFY-P100,125,140VMH-E (External static pressure 200Pa)



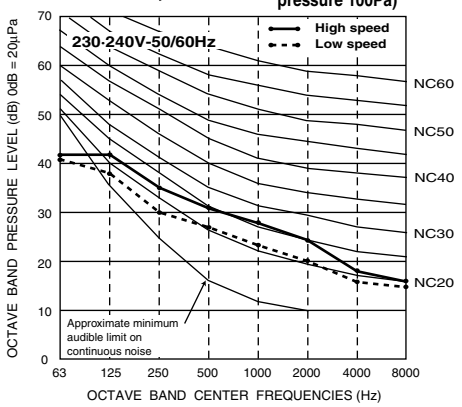
PEFY-P200VMH-E



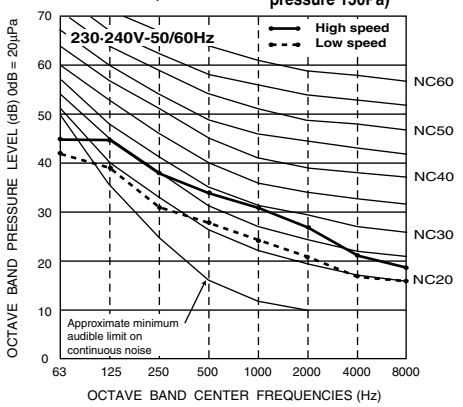
PEFY-P250VMH-E



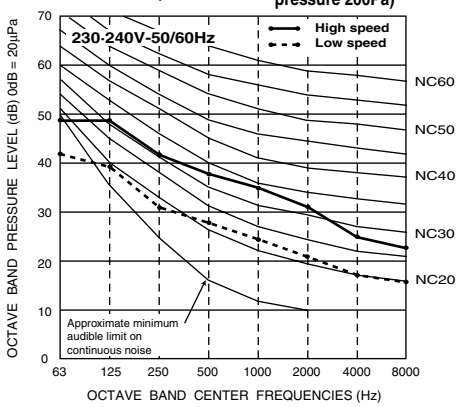
PEFY-P40,50VMH-E (External static pressure 100Pa)

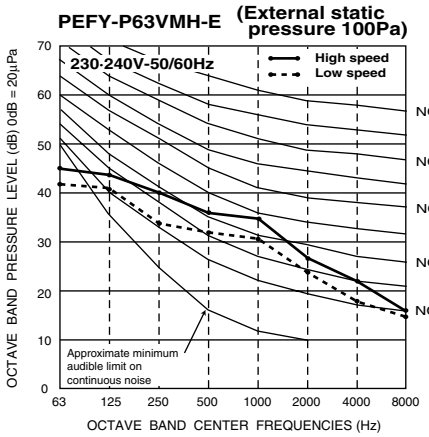


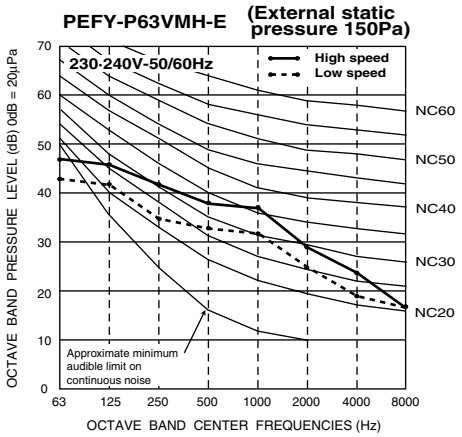
PEFY-P40,50VMH-E (External static pressure 150Pa)

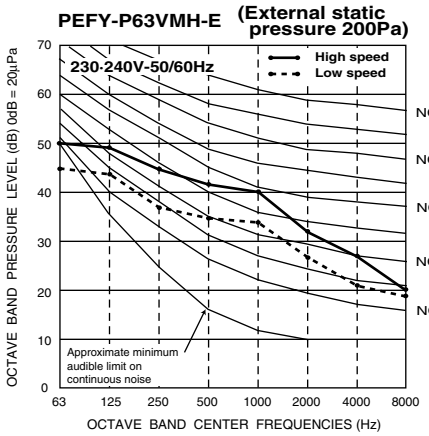


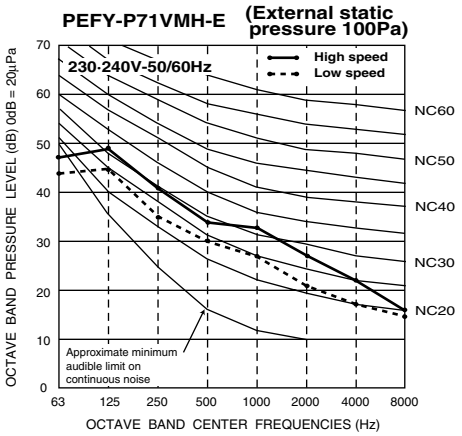
PEFY-P40,50VMH-E (External static pressure 200Pa)

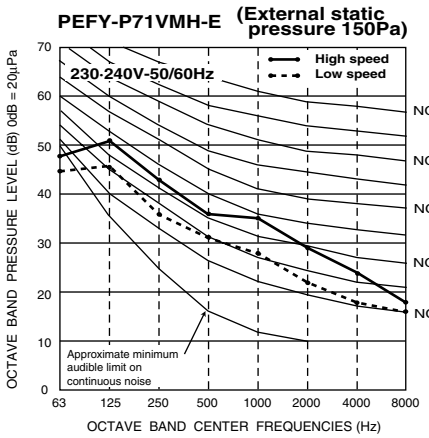


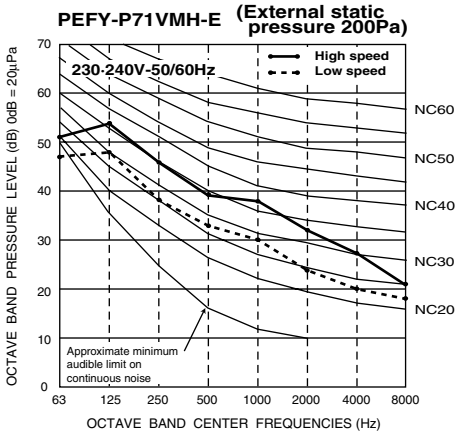

PEFY-P63VMH-E (External static pressure 100Pa)
230·240V-50/60Hz
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB = 20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

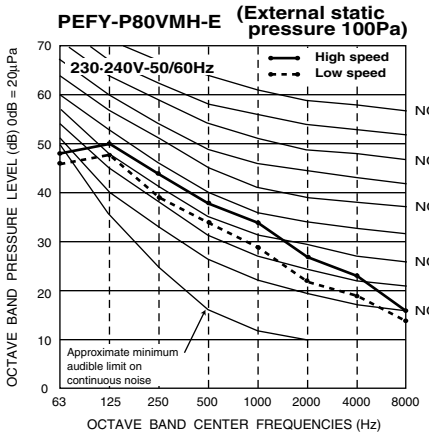

PEFY-P63VMH-E (External static pressure 150Pa)
230·240V-50/60Hz
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB = 20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

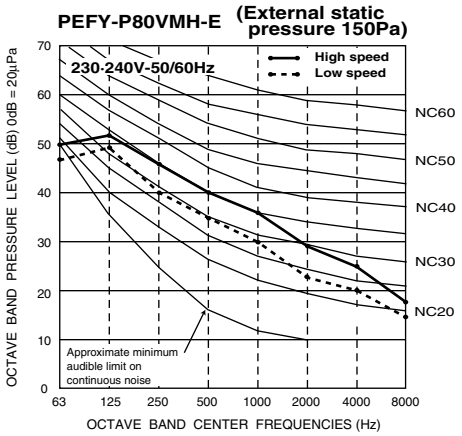

PEFY-P63VMH-E (External static pressure 200Pa)
230·240V-50/60Hz
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB = 20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)


PEFY-P71VMH-E (External static pressure 100Pa)
230·240V-50/60Hz
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB = 20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

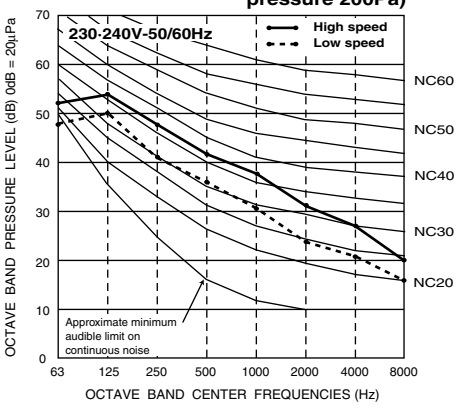

PEFY-P71VMH-E (External static pressure 150Pa)
230·240V-50/60Hz
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB = 20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)


PEFY-P71VMH-E (External static pressure 200Pa)
230·240V-50/60Hz
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB = 20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

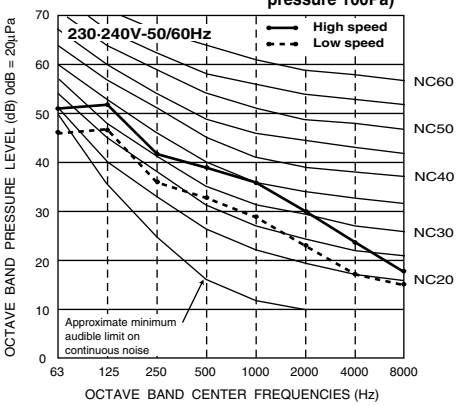

PEFY-P80VMH-E (External static pressure 100Pa)
230·240V-50/60Hz
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB = 20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)


PEFY-P80VMH-E (External static pressure 150Pa)
230·240V-50/60Hz
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB = 20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

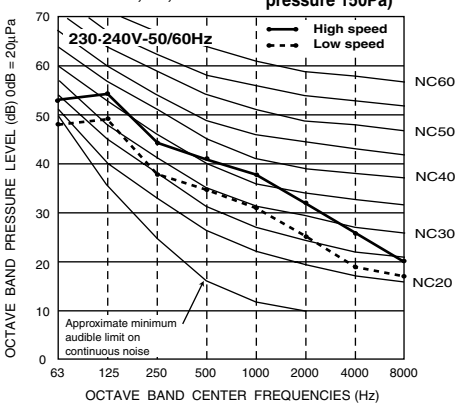
PEFY-P80VMH-E (External static pressure 200Pa)



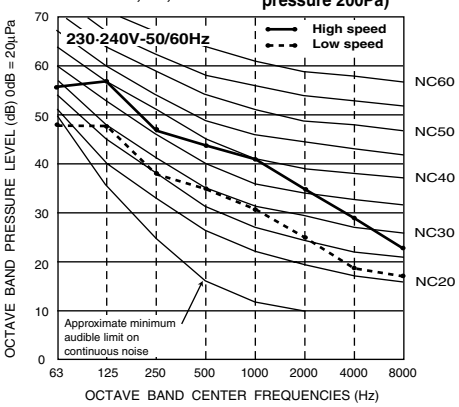
PEFY-P100,125,140VMH-E (External static pressure 100Pa)



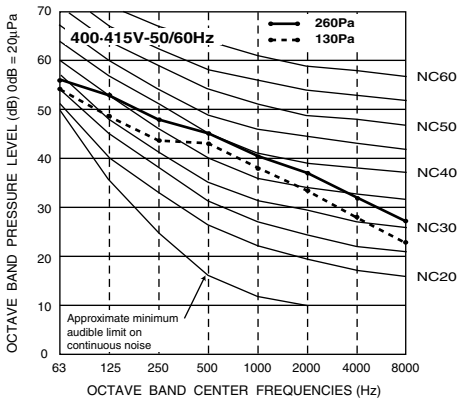
PEFY-P100,125,140VMH-E (External static pressure 150Pa)



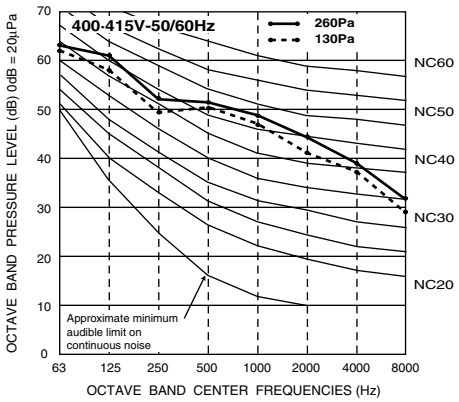
PEFY-P100,125,140VMH-E (External static pressure 200Pa)



PEFY-P200VMH-E

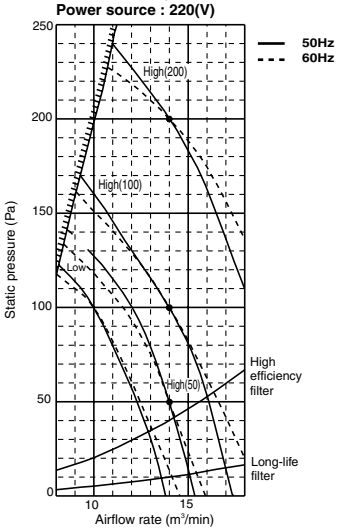


PEFY-P250VMH-E

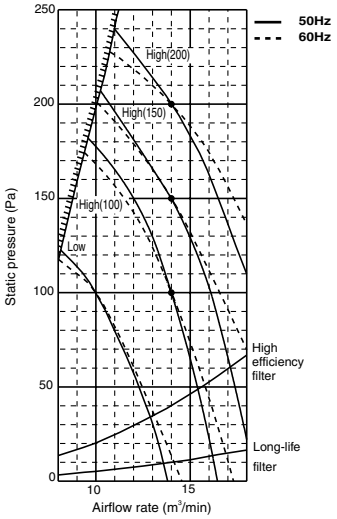


3.6 Fan characteristics curves(VMH-E)

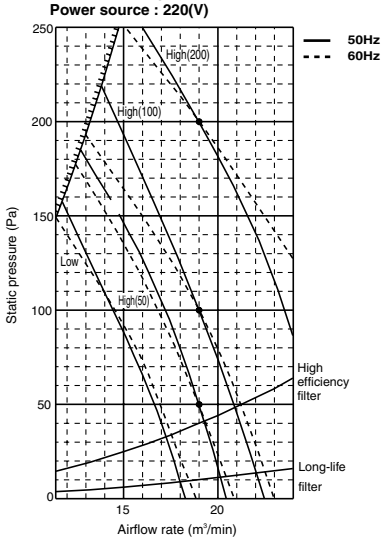
PEFY-P40,50VMH-E
Suction : Back inlet
External static pressure : 50,100,200Pa
Power source : 220(V)



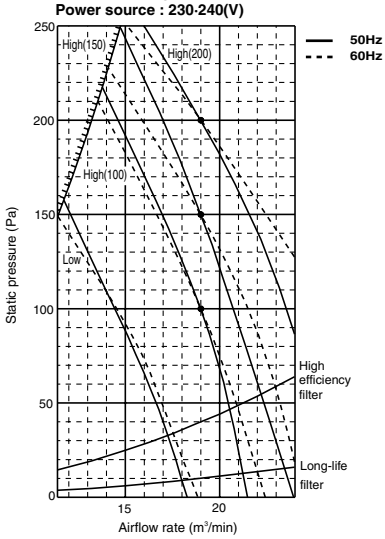
PEFY-P40,50VMH-E
Suction : Back inlet
External static pressure : 100,150,200Pa
Power source : 230,240(V)



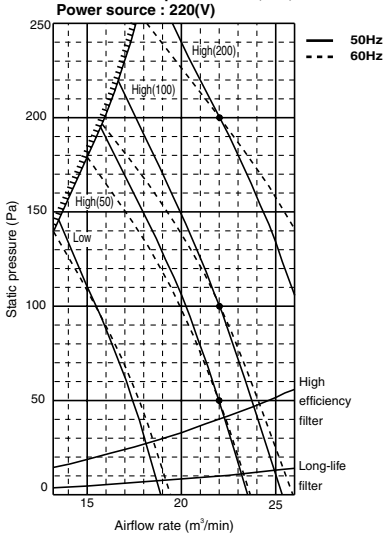
PEFY-P63VMH-E
Suction : Back inlet
External static pressure : 50,100,200Pa
Power source : 220(V)



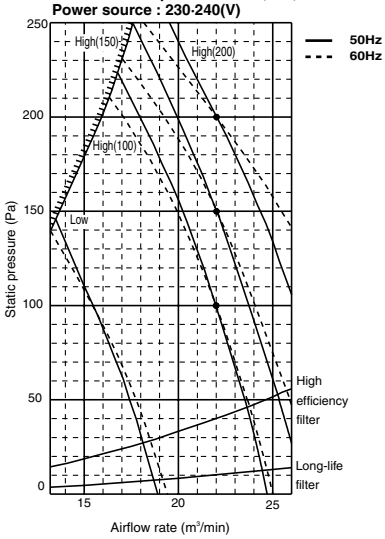
PEFY-P63VMH-E
Suction : Back inlet
External static pressure : 100,150,200Pa
Power source : 230·240(V)



PEFY-P71VMH-E
Suction : Back inlet
External static pressure : 50,100,200Pa
Power source : 220(V)

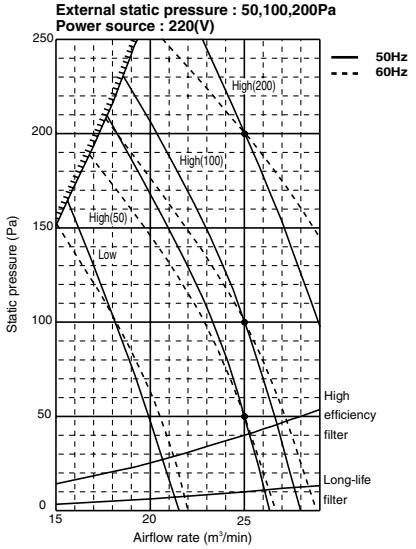


PEFY-P71VMH-E
Suction : Back inlet
External static pressure : 100,150,200Pa
Power source : 230·240(V)



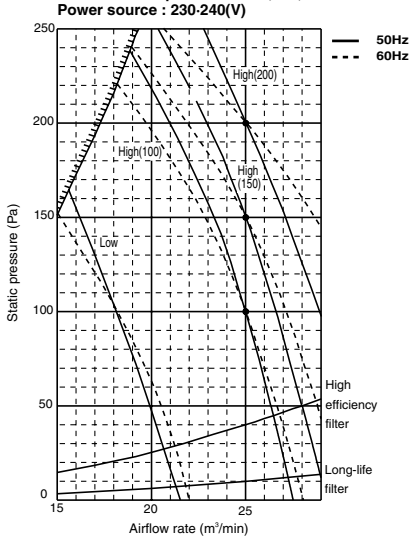
PEFY-P80VMH-E

Suction : Back inlet
External static pressure : 50,100,200Pa
Power source : 220(V)



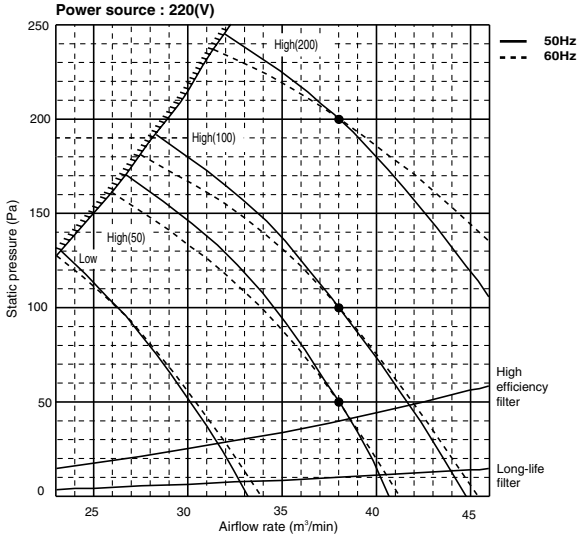
PEFY-P80VMH-E

Suction : Back inlet
External static pressure : 100,150,200Pa
Power source : 230·240(V)



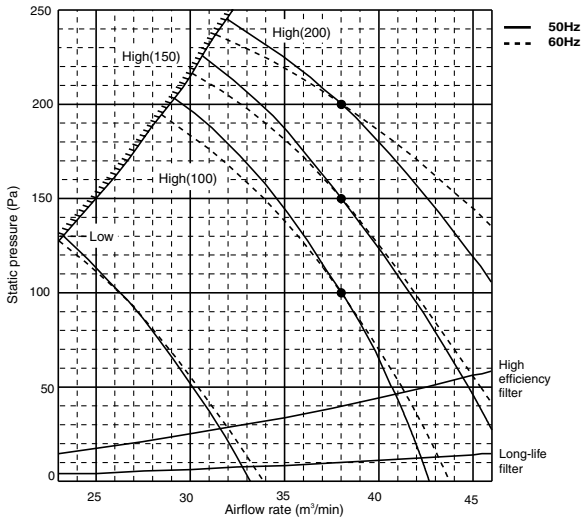
PEFY-P100·125VMH-E

Suction : Back inlet
External static pressure : 50,100,200Pa
Power source : 220(V)



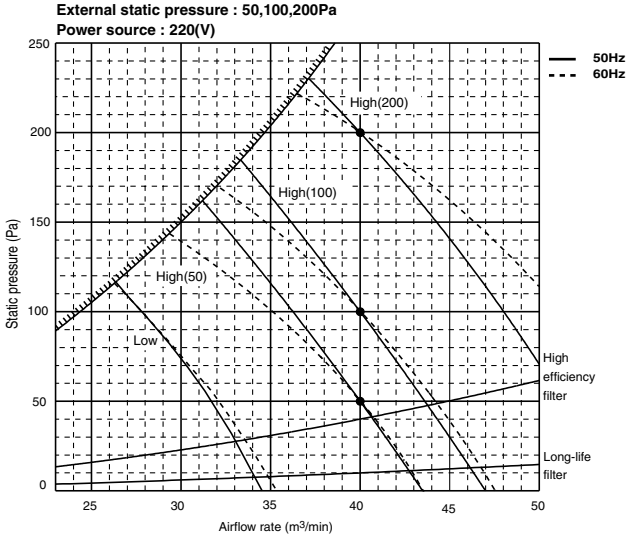
PEFY-P100·125VMH-E

Suction : Back inlet
External static pressure : 100,150,200Pa
Power source : 230·240(V)



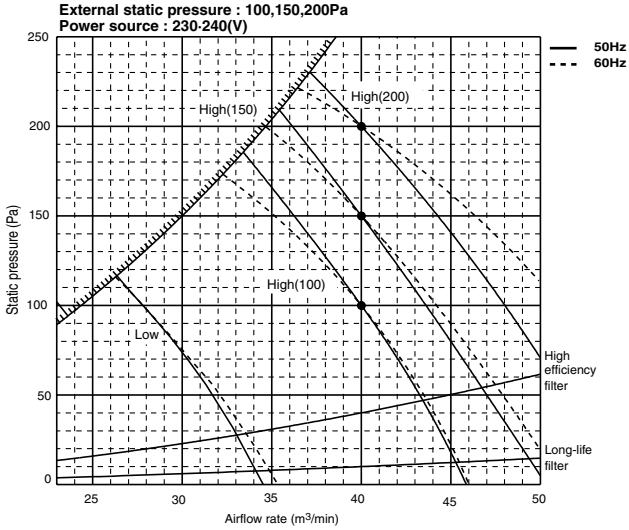
PEFY-P140VMH-E

Suction : Back inlet
External static pressure : 50,100,200Pa
Power source : 220(V)



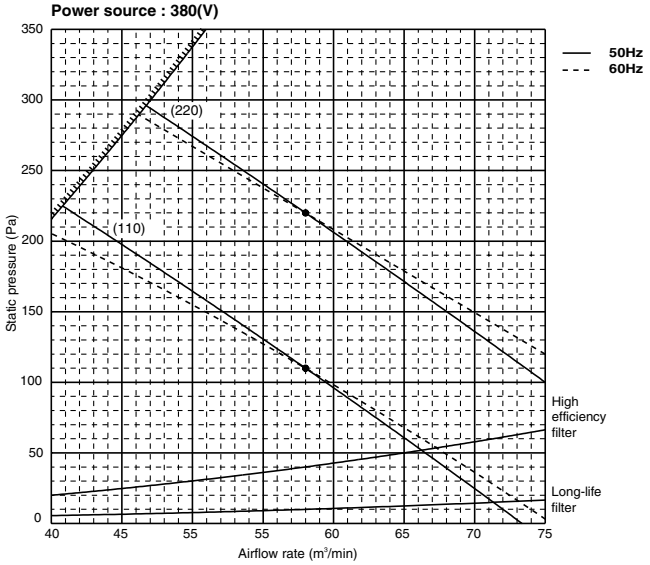
PEFY-P140VMH-E

Suction : Back inlet
External static pressure : 100,150,200Pa
Power source : 230·240(V)



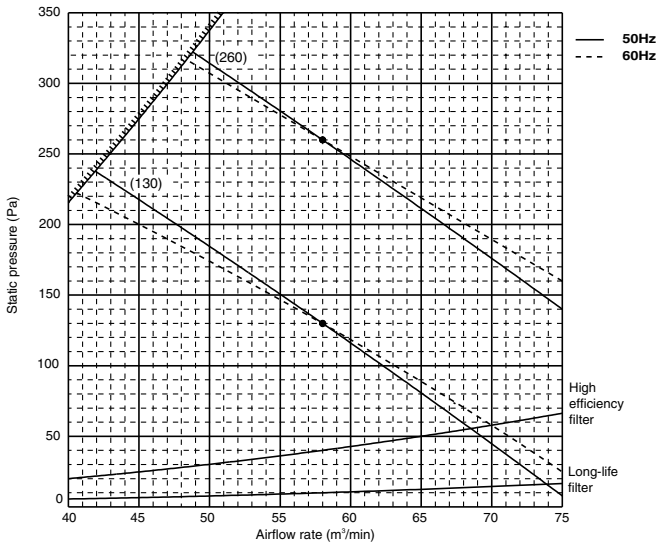
PEFY-P200VMH-E

Suction : Back inlet
External static pressure : 110,220Pa
Power source : 380(V)



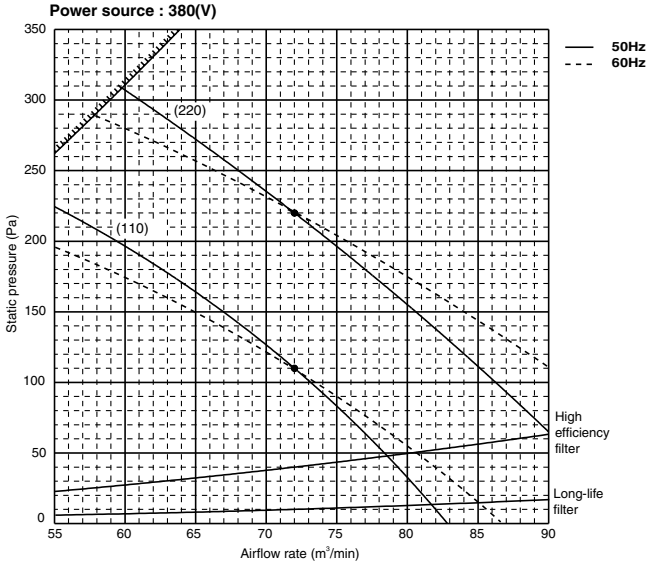
PEFY-P200VMH-E

Suction : Back inlet
External static pressure : 130,260Pa
Power source : 400·415(V)



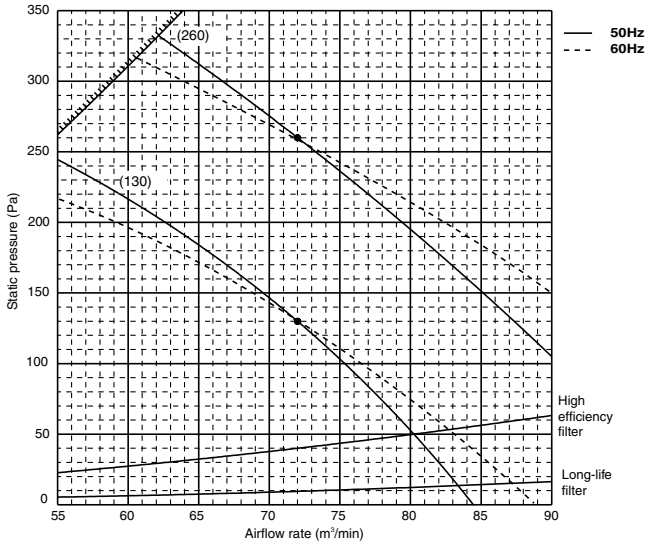
PEFY-P250VMH-E

Suction : Back inlet
External static pressure : 110,220Pa
Power source : 380(V)



PEFY-P250VMH-E

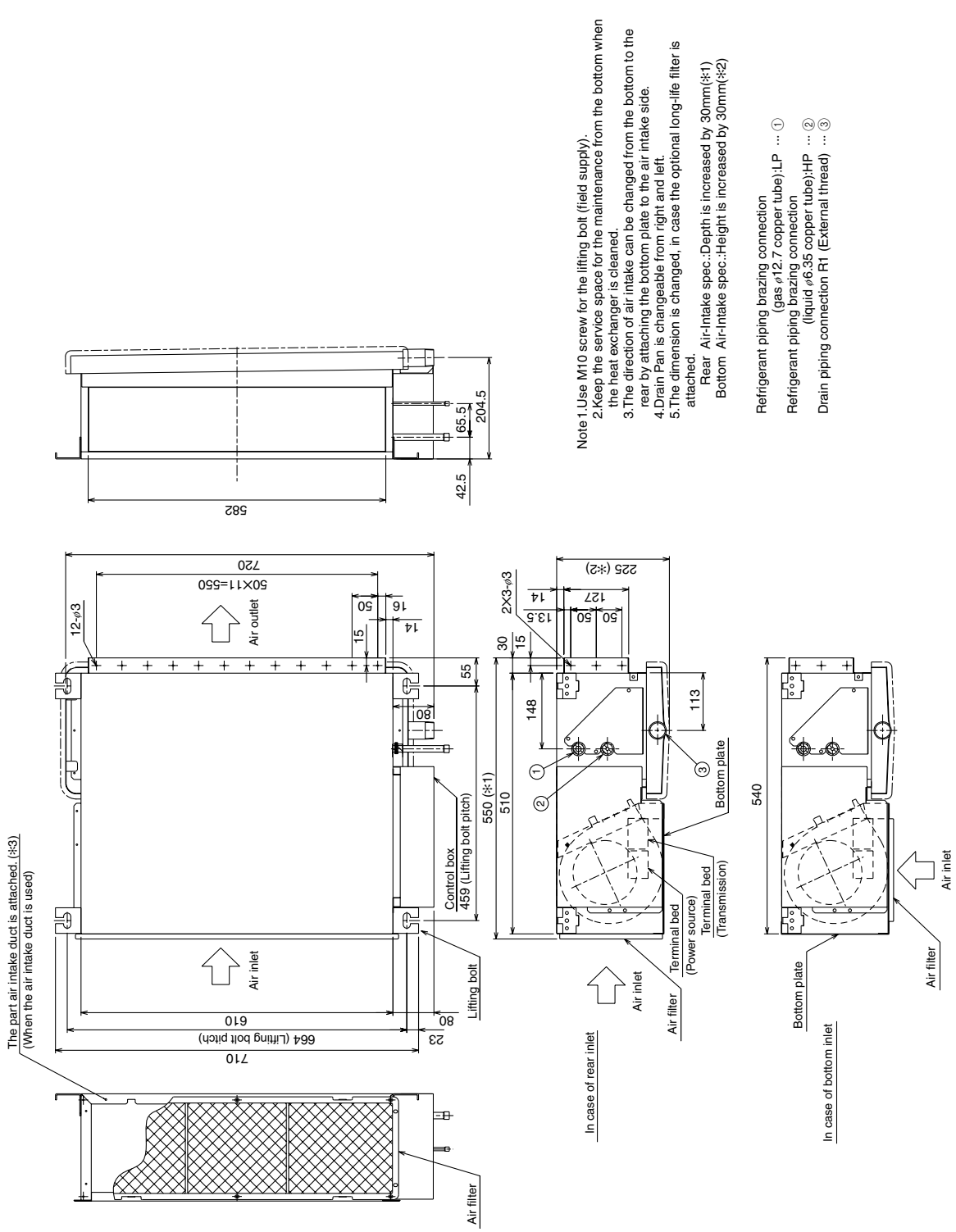
Suction : Back inlet
External static pressure : 130,260Pa
Power source : 400·415(V)



4. External Dimensions

PEFY-P20,25,32VML-E

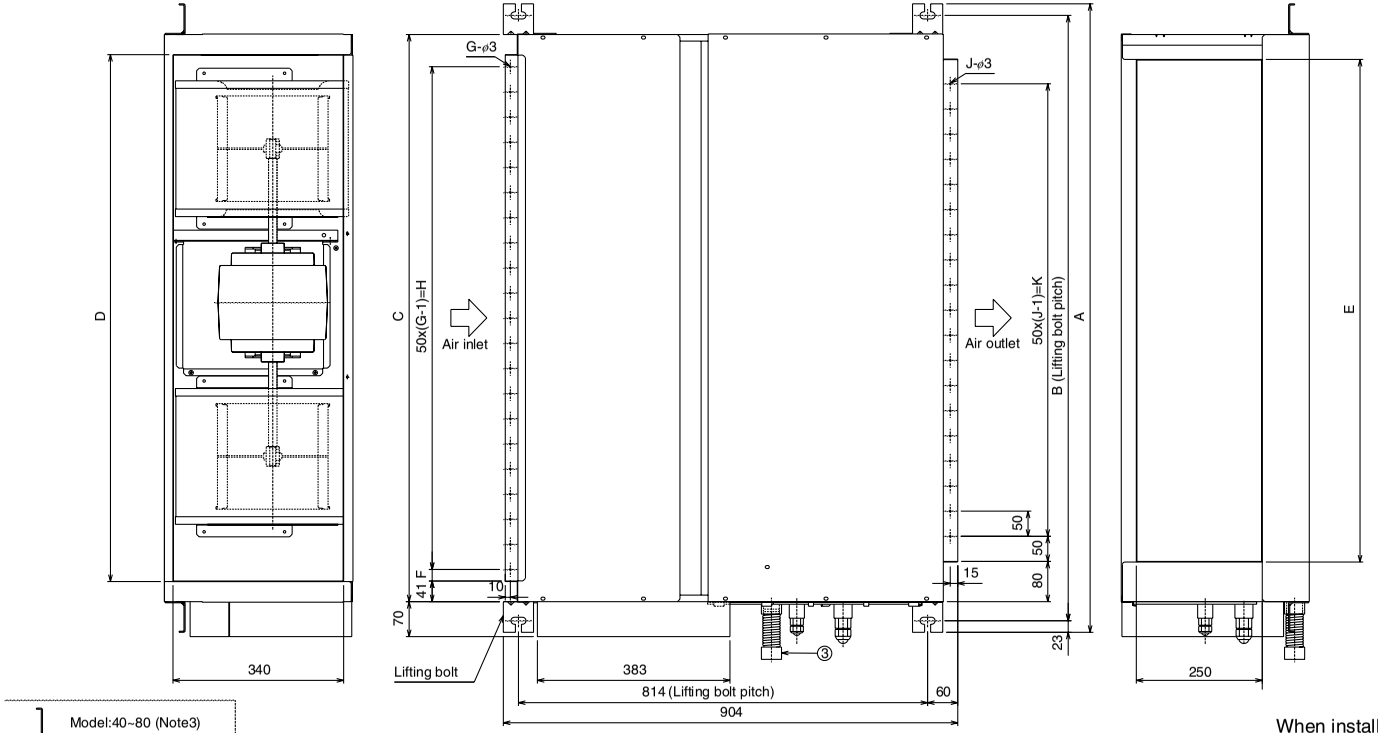
Unit : mm

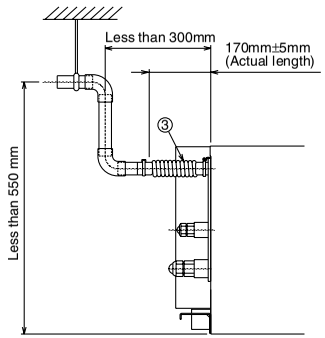


Note 1.Use M10 screw for the lifting bolt (field supply).
2.Keep the service space for the maintenance from the bottom when the heat exchanger is cleaned.
3.The direction of air intake can be changed from the bottom to the rear by attaching the bottom plate to the air intake side.
4.Drain Pan is changeable from right and left.
5.The dimension is changed, in case the optional long-life filter is attached.
Rear Air-Intake spec.:Depth is increased by 30mm(※1)
Bottom Air-Intake spec.:Height is increased by 30mm(※2)

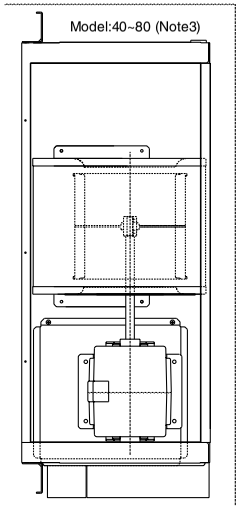
Refrigerant piping brazing connection (gas φ12.7 copper tube);LP ··· ①
Refrigerant piping brazing connection (liquid φ6.35 copper tube);HP ··· ②
Drain piping connection R1 (External thread) ··· ③

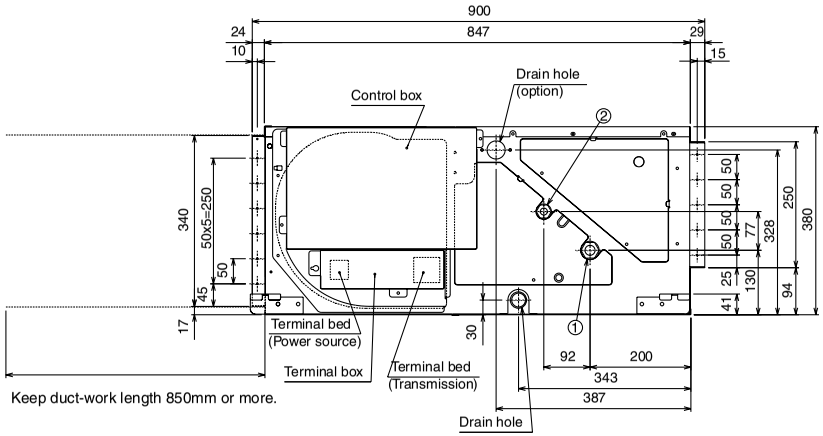
PEFY-P40,50,63,71,80, 100,125,140VMH-E





When installing the drain water lifting-up mech(option).





Model	A	B	C	D	E	F	G	H	J	K	L	M	N	P(Liquid)	P(Gas)
P40VMH-E	800	754	680	600	550	50	11	500	10	450	780	ø12.7	ø6.35	17	27
P50VMH-E	800	754	680	600	550	50	11	500	10	450	780	※1 ø12.7 ※2 ø15.88	※1 ø6.35 ※2 ø9.52	※1 22 ※2 22	※1 29 ※2 29
P63VMH-E	800	754	680	600	550	50	11	500	10	450	780	ø15.88	ø9.52	22	29
P71·80VMH-E	1050	1004	930	850	800	25	17	800	15	700	1030	ø15.88	ø9.52	22	29
P100·125 ·140VMH-E	1250	1204	1130	1050	1000	25	21	1000	19	900	1230	※1 ø15.88 ※2 ø19.05	※1 ø9.52 ※2 ø9.52	※1 22 ※2 22	※1 36 ※2 36

※1:R410A outdoor unit
※2:R407C,R22 outdoor unit

Note : 1. Use M10 screw for the lifting bolt (field supply).
2. Keep the service space for the maintenance from the bottom when the heat exchanger is cleaned.
3. This chart indicates for PEFY-P100·125·140VMH-E models, which have 2 fans.
PEFY-P40·50·63·71·80 models have 1 fan.
4. Make sure to install the air filter(field supply) on the air intake side.
In case field supplied air filter is used, attach it where the filter service is easily done.
5.On Model :50, 100, 125, 140, you would use flare nut packed with the Indoor Unit,
when connnecting the Outdoor Unit for R407C, R22.
6.In order to increase the strength of the flare nut, the size of some of them has been increased.

Refrigerant piping flare connection (gas M copper tube) : LP ··· ①
Refrigerant piping flare connection (liquid N copper tube) : HP ··· ②
Drain hose 32mm(1-1/4inch) <flexible joint 200mm> (accessory) ··· ③

Unit : mm

PEFY-P200, 250VMH-E

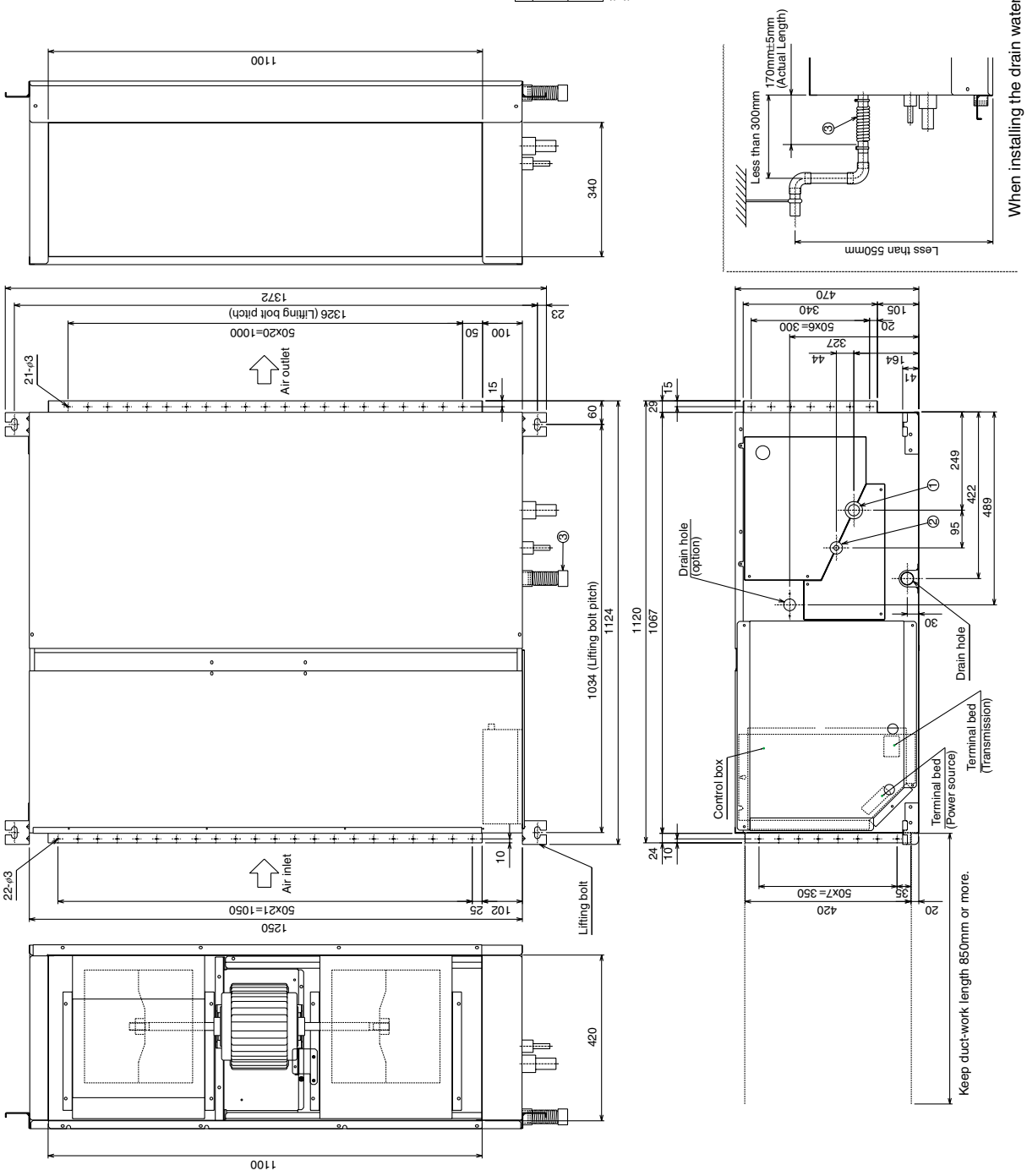
Unit : mm

Note : 1. Use M10 screw for the lifting bolt (field supply).
2. Keep the service space for the maintenance from the bottom when the heat exchanger is cleaned.
3. Make sure to install the air filter(field supply)on the air intake side. In case field supplied air filter is used, attach it where the filter service is easily done.
4. On this model, you would use pipe packed with the Indoor Unit, when connecting the Outdoor Unit for R407C, R22.

Model		A	B
P200VMH-E	※1	ø19.05	ø9.52
	※2	ø25.4	ø12.7
P250VMH-E	※1	ø22.2	ø9.52
	※2	ø28.58	ø12.7

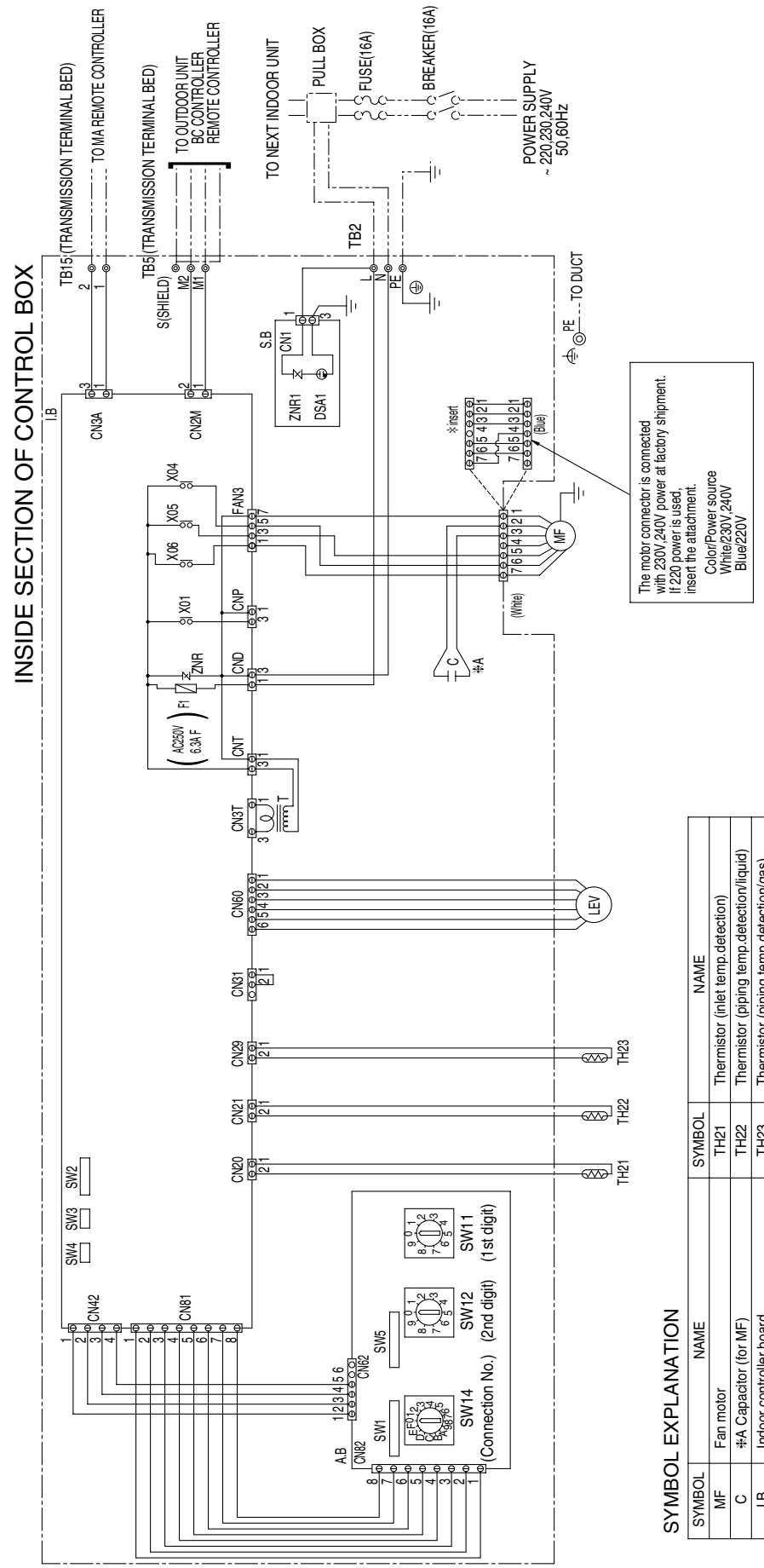
※1:R410A outdoor unit
※2:R407C,R22 outdoor unit

Refrigerant piping brazing connection (gas A copper tube) : LP ....①
Refrigerant piping brazing connection (liquid B copper tube) : HP ....②
Drain hose 32mm(1-1/4inch) <flexible joint 200mm>(accessory) ....③



5. Electrical Wiring Diagrams

PEFY-P20,25,32VML-E



NOTE : 1.The wirings to TB2,TB5 shown in dotted line are field work.
2.Mark ◎ indicates terminal bed, ⊖ connector, ⊟ board insertion connector or fastening connector of control board.

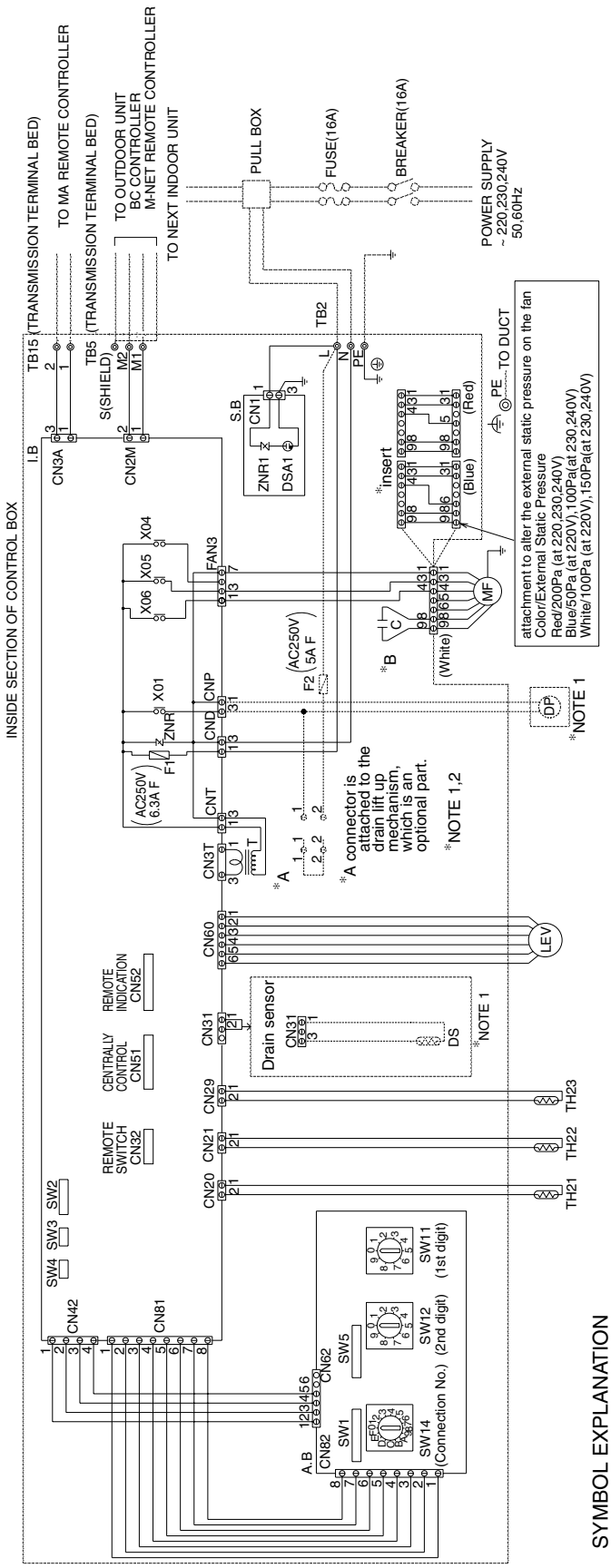
※A Capacitor
MODELS 20/25 1.5μF
MODEL 32 2.0μF

SYMBOL EXPLANATION

SYMBOL	NAME
MF	Fan motor
C	※A Capacitor (for MF)
I.B	Indoor controller board
A.B	Address board
TB2	Power source terminal bed
TB5	Transmission terminal bed
TB15	Transmission terminal bed
F1	Fuse AC250V 6.3A F
T	Transformer
LEV	Electronic linear expan. valve
S.B	Surge absorber board
X04~X06	Aux.relay

SYMBOL	NAME
TH21	Thermistor (inlet temp.detection)
TH22	Thermistor (piping temp.detection/liquid)
TH23	Thermistor (piping temp.detection/gas)
SW11(A.B)	Switch (1st digit address set)
SW12(A.B)	Switch (2nd digit address set)
SW14(A.B)	Switch (connection No.set)
SW1(A.B)	Switch(for mode selection)
SW2(I.B)	Switch(for capacity code)
SW3(I.B)	Switch(for mode selection)
SW4(I.B)	Switch(for model selection)
SW5(A.B)	Switch(for voltage selection)

PEFY-P40,50,63,71,80,100,125,140VMH-E



NOTE : 1. The part of the broken line indicates the circuit for optional parts.
2. *A in the chart is the connector for a drain pump test run operation. (The Drain Pump operates continuously if the connector is inserted and the power is supplied.) After the test run, make sure to remove the *A connector.
3. The wirings to TB2, TB5 (shown in dotted line) are field work.
4. Mark ◎ indicates terminal bed, ⊖ connector, ⊕ board insertion connector or fastening connector of control board.

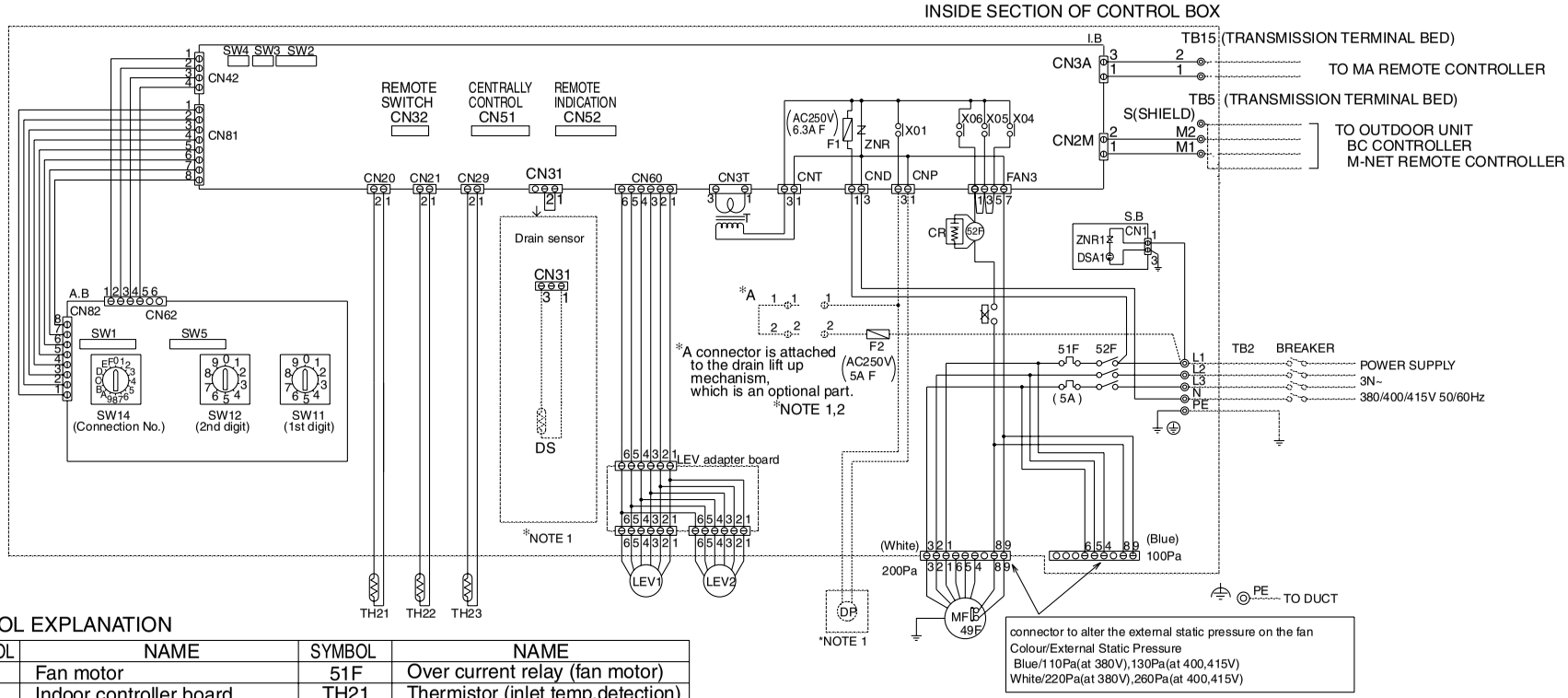
*B Capacitor
MODELS 40/50 3.0μF
MODEL 63 4.0μF
MODELS 71/80 5.0μF
MODELS 100/125/140 7.0μF

SYMBOL EXPLANATION

SYMBOL	NAME	SYMBOL	NAME
MF	Fan motor	S.B	Surge absorber board
C	*B Capacitor (for MF)	TH21	Thermistor (inlet temp.detection)
I.B	Indoor controller board	TH22	Thermistor (piping temp.detection/liquid)
A.B	Address board	TH23	Thermistor (piping temp.detection/gas)
TB2	Power source terminal bed	SW11(A.B)	Switch (1st digit address set)
TB5	Transmission terminal bed	SW12(A.B)	Switch (2nd digit address set)
TB15	Transmission terminal bed	SW14(A.B)	Switch (connection No.set)
F1	Fuse AC250V 6.3A F	SW1(A.B)	Switch(for mode selection)
<F2>	Fuse AC250V 5A F	SW2(I.B)	Switch(for capacity code)
T	Transformer	SW3(I.B)	Switch(for mode selection)
<DP>	Drain Pump	SW4(I.B)	Switch(for model selection)
LEV	Electronic linear expan. valve	SW5(A.B)	Switch(for voltage selection)
<DS>	Drain sensor	X04-X06	Aux.relay

inside < > is the optional parts

PEFY-P200,250VMH-E



SYMBOL EXPLANATION

SYMBOL	NAME	SYMBOL	NAME
MF	Fan motor	51F	Over current relay (fan motor)
I.B	Indoor controller board	TH21	Thermistor (inlet temp.detection)
A.B	Address board	TH22	Thermistor (piping temp.detection/liquid)
TB2	Power source terminal bed	TH23	Thermistor (piping temp.detection/gas)
TB5	Transmission terminal bed	SW11(A.B)	Switch (1st digit address set)
TB15	Transmission terminal bed	SW12(A.B)	Switch (2nd digit address set)
F1	Fuse AC250V 6.3A F	SW14(A.B)	Switch (connection No.set)
<F2>	Fuse AC250V 5A F	SW1(A.B)	Switch(for mode selection)
T	Transformer	SW2(I.B)	Switch(for capacity code)
<DP>	Drain Pump	SW3(I.B)	Switch(for mode selection)
LEV1,LEV2	Electronic linear expan. valve	SW4(I.B)	Switch(for model selection)
<DS>	Drain sensor	SW5(A.B)	Switch(for voltage selection)
S.B	Surge absorber board	X04-X06	Aux.relay
52F	Contactor (fan motor)	49F	Inner thermostat

inside < > is the optional parts

CAUTION : 1.To protect Fan motor from abnormal current, Over current relays<51F> is installed. Therefore, do not change factory set value of Over current relays.

NOTE : 1.The part of the broken line indicates the circuit for optional parts.
2. *A in the chart is the connector for a drain pump test run operation. (The Drain Pump operates continuously if the connector is inserted and the power is supplied.)
After the test run, make sure to remove the *A connector.
3.The wirings to TB2,TB5 shown in dotted line are field work.
4.Mark ◎ indicates terminal bed, ⊖ connector, ⊡ board insertion connector or fastening connector of control board.

6. Options

Description	Model	Applicable capacity
Long life filter	PAC-KE32LAF-F	P20/P25/P32
	PAC-KE86LAF	P40/P50/P63
	PAC-KE88LAF	P71/P80
	PAC-KE89LAF	P100/P125/P140
	PAC-KE85LAF	P200/P250
Filter box	PAC-KE63TB-F	P40/P50/P63
	PAC-KE80TB-F	P71/P80
	PAC-KE140TB-F	P100/P125/P140
	PAC-KE250TB-F	P200/P250
Drain water lift-up kit	PAC-KE04DM-F	P40/P50/P63/P71/P80/P100 P125/P140/P200/P250

Ceiling concealed PEFY-P-VMM-E

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2.3b. Heating capacity in combination with PUHY,PURY-P450,500,550,600,650YGM Ⅰ-48

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Model Name	20	25	32	40	50	63	71	80	100	125	140	200	250
PEFY-P-VMM-E	●	●	●	●	●	●	●	●	●	●	●		

1. Specifications

			PEFY-P20VMM-E	PEFY-P25VMM-E	PEFY-P32VMM-E	PEFY-P40VMM-E
Power source			~220-240V 50Hz			
Cooling capacity	※1	kW	2.2	2.8	3.6	4.5
	※1	BTU/h	7,500	9,550	12,280	15,350
	※2	kW	2.3	2.9	3.7	4.7
	※2	kcal/h	2,000	2,500	3,150	4,000
Heating capacity	※1	kW	2.5	3.2	4.0	5.0
	※1	BTU/h	8,530	10,750	13,640	17,060
	※2	kW	2.6	3.3	4.1	5.2
	※2	kcal/h	2,250	2,800	3,550	4,500
Power consumption (50Hz)	Cooling	kW	0.15		0.17	0.19
	Heating	kW	0.15		0.17	0.19
Current	Cooling	A	0.73		0.81	0.92
	Heating	A	0.73		0.81	0.92
External finish			Galvanizing			
Dimension H x W x D		mm	295 x 815 x 700			295 x 935 x 700
Net weight		kg	27			33
Heat exchanger			Cross fin (Aluminum plate fin and copper tube)			
Fan	Type		Sirocco fan× 1			Sirocco fan× 2
	Airflow rate (Lo-Mid-Hi)	m³/min	6.0-7.2-8.5		7.5-9.0-10.5	10.0-12.0-14.0
	External static pressure	Pa	30/50/100			
Motor	Type		Single phase induction motor			
	Output	kW	0.075			
Air filter			PP Honeycomb fabric (washable)			
Refrigerant pipe dimension	Gas (Flare)	mm	ø 12.7			
	Liquid (Flare)	mm	ø 6.35			
Drain pipe dimension			R1 (External thread)			
Noise level (Lo-Mid-Hi) ※3		dB(A)	27-30-32		28-32-35	31-34-37

			PEFY-P50VMM-E	PEFY-P63VMM-E	PEFY-P71VMM-E	PEFY-P80VMM-E
Power source			~220-240V 50Hz			
Cooling capacity	※1	kW	5.6	7.1	8.0	9.0
	※1	BTU/h	19,100	24,220	27,290	30,700
	※2	kW	5.8	7.3	8.3	9.3
	※2	kcal/h	5,000	6,300	7,100	8,000
Heating capacity	※1	kW	6.3	8.0	9.0	10.0
	※1	BTU/h	21,500	27,290	30,700	34,120
	※2	kW	6.5	8.3	9.3	10.5
	※2	kcal/h	5,600	7,100	8,000	9,000
Power consumption (50Hz)	Cooling	kW	0.20	0.22	0.25	
	Heating	kW	0.20	0.22	0.25	
Current	Cooling	A	0.98	1.07	1.15	
	Heating	A	0.98	1.07	1.15	
External finish			Galvanizing			
Dimension H x W x D		mm	295 x 935 x 700	295 x 1,175 x 700		
Net weight		kg	33	42		
Heat exchanger			Cross fin (Aluminum plate fin and copper tube)			
Fan	Type		Sirocco fan×2			
	Airflow rate (Lo-Hi)	m³/min	12.0-14.5-17.0	13.5-16.2-19.0	14.5-18.0-21.0	
	External static pressure	Pa	30/50/100			
Motor	Type		Single phase induction motor			
	Output	kW	0.075	0.078		
Air filter			PP Honeycomb fabric (washable)			
Refrigerant pipe dimension	Gas (Flare)	mm	ø 12.7 (R410A) ø 15.88 (R22,R407C)	ø 15.88		
	Liquid (Flare)	mm	ø 6.35 (R410A) ø 9.52 (R22,R407C)	ø 9.52		
Drain pipe dimension			R1 (External thread)			
Noise level (Lo-Mid-Hi) ※3		dB(A)	31-35-38		32-36-39	

Note: ※1 Cooling/Heating capacity indicates the maximum value at operation under the following condition.
Cooling : Indoor 27˚CDB/19˚CWB,Outdoor 35˚CDB
Heating : Indoor 20˚CDB,Outdoor 7˚CDB/6˚CWB
※2 Cooling capacity indicates the maximum value at operation under the following condition.
Cooling : Indoor 27˚CDB/19.5˚CWB,Outdoor 35˚CDB (WR2: water 30˚C)
Heating : Indoor 21˚CDB,Outdoor 7˚CDB/6˚CWB (WR2: water 20˚C)
※3 It is measured in anechoic room.

			PEFY-P100VMM-E	PEFY-P125VMM-E	PEFY-P140VMM-E
Power source			~220-240V 50Hz		
Cooling capacity	※1	kW	11.2	14.0	16.0
	※1	BTU/h	38,200	47,750	54,580
	※2	kW	11.6	14.5	16.3
	※2	kcal/h	10,000	12,500	14,000
Heating capacity	※1	kW	12.5	16.0	18.0
	※1	BTU/h	42,650	54,580	61,400
	※2	kW	13.0	16.3	18.6
	※2	kcal/h	11,200	14,000	16,000
Power consumption (50/60Hz)	Cooling	kW	0.29	0.40	0.42
	Heating	kW	0.29	0.40	0.42
Current	Cooling	A	1.34	1.90	1.95
	Heating	A	1.34	1.90	1.95
External finish			Galvanizing		
Dimension H x W x D		mm	325 x 1,415 x 740		325 x 1,715 x 740
Net weight		kg	62	65	70
Heat exchanger			Cross fin (Aluminum plate fin and copper tube)		
Fan	Type		Sirocco fan×2		
	Airflow rate (Lo-Hi)	m^3/min	23.0-33.0	28.0-40.0	29.5-42.0
	External static pressure	Pa	50/130		
Motor	Type		Single phase induction motor		
	Output	kW	0.200	0.280	
Air filter			PP Honeycomb fabric (washable)		
Refrigerant pipe dimension	Gas (Flare)	mm	ø 15.88 (R410A) ø 19.05 (R22,R407C)		
	Liquid (Flare)	mm	ø 9.52		
Drain pipe dimension			R1 (External thread)		
Noise level (Lo-Mid-Hi) ※3		dB(A)	40-44	42-45	42-45

Note: ※1 Cooling/Heating capacity indicates the maximum value at operation under the following condition.
Cooling : Indoor 27˚CDB/19˚CWB,Outdoor 35˚CDB
Heating : Indoor 20˚CDB,Outdoor 7˚CDB/6˚CWB

※2 Cooling capacity indicates the maximum value at operation under the following condition.
Cooling : Indoor 27˚CDB/19.5˚CWB,Outdoor 35˚CDB (WR2: water 30˚C)
Heating : Indoor 21˚CDB,Outdoor 7˚CDB/6˚CWB (WR2: water 20˚C)

※3 It is measured in anechoic room.

2. Capacity Tables

2.1a. Cooling capacity in combination with PUHY,PUY,PURY-P200,250YGM

PEFY-P-VMM-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.0	1.7	2.1	1.8	2.3	1.8	2.4	1.9	2.4	1.9	2.6	1.9	2.8	1.9
	22.5	2.0	1.7	2.1	1.8	2.3	1.8	2.4	1.9	2.4	1.9	2.6	1.9	2.8	1.9
	25.0	2.0	1.7	2.1	1.8	2.3	1.8	2.4	1.9	2.4	1.9	2.6	1.9	2.7	1.9
	27.5	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.8	2.4	1.9	2.5	1.9	2.7	1.9
	30.0	1.9	1.7	2.0	1.8	2.2	1.8	2.3	1.8	2.3	1.9	2.5	1.9	2.6	1.8
	32.5	1.9	1.7	2.0	1.8	2.1	1.7	2.2	1.8	2.3	1.9	2.4	1.8	2.6	1.8
	35.0	1.9	1.7	2.0	1.7	2.1	1.7	2.2	1.8	2.2	1.8	2.4	1.8	2.5	1.8
	37.5	1.8	1.6	1.9	1.7	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.8	2.5	1.8
	40.0	1.8	1.6	1.9	1.7	2.0	1.7	2.1	1.7	2.1	1.8	2.3	1.8	2.4	1.8
	43.0	1.8	1.6	1.8	1.7	2.0	1.7	2.0	1.7	2.0	1.8	2.2	1.8	2.4	1.7
25 (2.8)	20.0	2.5	2.0	2.7	2.1	2.9	2.1	3.0	2.1	3.1	2.2	3.3	2.2	3.5	2.1
	22.5	2.5	2.0	2.7	2.1	2.9	2.1	3.0	2.1	3.1	2.2	3.3	2.2	3.5	2.1
	25.0	2.5	2.0	2.7	2.1	2.9	2.1	3.0	2.1	3.1	2.2	3.3	2.2	3.5	2.1
	27.5	2.5	1.9	2.6	2.0	2.8	2.0	3.0	2.1	3.0	2.2	3.2	2.1	3.4	2.1
	30.0	2.5	1.9	2.6	2.0	2.8	2.0	2.9	2.1	3.0	2.1	3.1	2.1	3.3	2.1
	32.5	2.4	1.9	2.5	2.0	2.7	2.0	2.8	2.0	2.9	2.1	3.1	2.1	3.3	2.1
	35.0	2.4	1.9	2.5	2.0	2.7	2.0	2.8	2.0	2.8	2.1	3.0	2.1	3.2	2.0
	37.5	2.4	1.9	2.5	2.0	2.6	1.9	2.7	2.0	2.8	2.1	3.0	2.0	3.1	2.0
	40.0	2.3	1.9	2.4	1.9	2.6	1.9	2.7	2.0	2.7	2.0	2.9	2.0	3.1	2.0
	43.0	2.3	1.8	2.4	1.9	2.5	1.9	2.6	1.9	2.6	2.0	2.8	2.0	3.0	2.0
32 (3.6)	20.0	3.2	2.5	3.4	2.6	3.7	2.6	3.9	2.7	4.0	2.8	4.2	2.7	4.6	2.7
	22.5	3.2	2.5	3.4	2.6	3.7	2.6	3.9	2.7	4.0	2.8	4.2	2.7	4.6	2.7
	25.0	3.2	2.5	3.4	2.6	3.7	2.6	3.9	2.7	4.0	2.7	4.2	2.7	4.5	2.7
	27.5	3.2	2.5	3.4	2.6	3.6	2.6	3.8	2.6	3.9	2.7	4.1	2.7	4.4	2.6
	30.0	3.2	2.4	3.3	2.6	3.6	2.5	3.7	2.6	3.8	2.7	4.0	2.6	4.3	2.6
	32.5	3.1	2.4	3.3	2.5	3.5	2.5	3.7	2.6	3.7	2.6	4.0	2.6	4.2	2.6
	35.0	3.1	2.4	3.2	2.5	3.4	2.5	3.6	2.5	3.7	2.6	3.9	2.6	4.1	2.5
	37.5	3.0	2.4	3.2	2.5	3.3	2.4	3.5	2.5	3.6	2.6	3.8	2.6	4.0	2.5
	40.0	3.0	2.3	3.1	2.4	3.3	2.4	3.5	2.5	3.5	2.6	3.7	2.5	4.0	2.5
	43.0	2.9	2.3	3.0	2.4	3.2	2.4	3.3	2.4	3.3	2.5	3.6	2.5	3.9	2.5
40 (4.5)	20.0	4.0	3.2	4.3	3.3	4.6	3.3	4.9	3.4	5.0	3.6	5.3	3.5	5.7	3.5
	22.5	4.0	3.2	4.3	3.3	4.6	3.3	4.9	3.4	5.0	3.6	5.3	3.5	5.7	3.5
	25.0	4.0	3.2	4.3	3.3	4.6	3.3	4.9	3.4	5.0	3.5	5.3	3.5	5.6	3.4
	27.5	4.0	3.2	4.3	3.3	4.5	3.3	4.8	3.4	4.8	3.5	5.2	3.5	5.5	3.4
	30.0	4.0	3.1	4.2	3.3	4.5	3.3	4.7	3.4	4.8	3.5	5.0	3.4	5.4	3.4
	32.5	3.9	3.1	4.1	3.2	4.4	3.2	4.6	3.3	4.7	3.4	5.0	3.4	5.3	3.3
	35.0	3.8	3.1	4.0	3.2	4.3	3.2	4.5	3.3	4.6	3.4	4.9	3.3	5.2	3.3
	37.5	3.8	3.1	4.0	3.2	4.2	3.1	4.4	3.2	4.5	3.3	4.8	3.3	5.0	3.3
	40.0	3.7	3.0	3.9	3.1	4.1	3.1	4.3	3.2	4.4	3.3	4.7	3.3	5.0	3.2
	43.0	3.6	3.0	3.8	3.1	4.0	3.1	4.2	3.2	4.2	3.2	4.5	3.2	4.8	3.2
50 (5.6)	20.0	5.0	3.9	5.3	4.1	5.8	4.1	6.0	4.2	6.2	4.3	6.6	4.3	7.1	4.2
	22.5	5.0	3.9	5.3	4.1	5.8	4.1	6.0	4.2	6.2	4.3	6.6	4.3	7.1	4.2
	25.0	5.0	3.9	5.3	4.1	5.8	4.1	6.0	4.2	6.2	4.3	6.6	4.2	6.9	4.2
	27.5	5.0	3.8	5.3	4.0	5.7	4.0	5.9	4.1	6.0	4.2	6.4	4.2	6.8	4.1
	30.0	4.9	3.8	5.2	4.0	5.5	4.0	5.8	4.1	5.9	4.2	6.3	4.1	6.7	4.1
	32.5	4.8	3.8	5.1	3.9	5.4	3.9	5.7	4.0	5.8	4.1	6.2	4.1	6.6	4.0
	35.0	4.8	3.7	5.0	3.9	5.3	3.9	5.6	4.0	5.7	4.1	6.0	4.0	6.4	4.0
	37.5	4.7	3.7	4.9	3.9	5.2	3.8	5.5	3.9	5.5	4.0	5.9	4.0	6.3	3.9
	40.0	4.6	3.7	4.8	3.8	5.1	3.8	5.4	3.9	5.5	4.0	5.8	4.0	6.2	3.9
	43.0	4.5	3.6	4.7	3.8	5.0	3.7	5.2	3.8	5.2	3.9	5.7	3.9	6.0	3.8
63 (7.1)	20.0	6.4	4.8	6.8	5.1	7.3	5.1	7.7	5.2	7.8	5.4	8.4	5.3	9.0	5.3
	22.5	6.4	4.8	6.8	5.1	7.3	5.1	7.7	5.2	7.8	5.4	8.4	5.3	9.0	5.3
	25.0	6.4	4.8	6.8	5.1	7.3	5.1	7.7	5.2	7.8	5.4	8.3	5.3	8.8	5.2
	27.5	6.3	4.8	6.7	5.0	7.2	5.0	7.5	5.1	7.6	5.3	8.1	5.2	8.7	5.2
	30.0	6.2	4.8	6.6	5.0	7.0	5.0	7.4	5.1	7.5	5.2	8.0	5.2	8.5	5.1
	32.5	6.1	4.7	6.5	4.9	6.9	4.9	7.2	5.0	7.3	5.2	7.8	5.1	8.3	5.0
	35.0	6.0	4.7	6.4	4.9	6.7	4.8	7.1	5.0	7.2	5.1	7.7	5.1	8.1	5.0
	37.5	6.0	4.6	6.2	4.8	6.6	4.8	6.9	4.9	7.0	5.0	7.5	5.0	8.0	4.9
	40.0	5.9	4.6	6.1	4.8	6.5	4.7	6.8	4.9	6.9	5.0	7.3	4.9	7.8	4.9
	43.0	5.8	4.5	6.0	4.7	6.3	4.6	6.6	4.8	6.6	4.9	7.2	4.9	7.6	4.8
71 (8.0)	20.0	7.2	5.4	7.6	5.7	8.2	5.7	8.6	5.8	8.8	6.0	9.4	6.0	10.1	5.9
	22.5	7.2	5.4	7.6	5.7	8.2	5.7	8.6	5.8	8.8	6.0	9.4	6.0	10.1	5.9
	25.0	7.2	5.4	7.6	5.7	8.2	5.7	8.6	5.8	8.8	6.0	9.4	5.9	9.9	5.8
	27.5	7.1	5.4	7.6	5.6	8.1	5.6	8.5	5.8	8.6	5.9	9.2	5.9	9.8	5.8
	30.0	7.0	5.3	7.4	5.6	7.9	5.5	8.3	5.7	8.5	5.9	9.0	5.8	9.6	5.7
	32.5	6.9	5.3	7.3	5.5	7.8	5.5	8.1	5.6	8.3	5.8	8.8	5.7	9.4	5.6
	35.0	6.8	5.2	7.2	5.5	7.6	5.4	8.0	5.6	8.1	5.7	8.6	5.7	9.2	5.6
	37.5	6.7	5.2	7.0	5.4	7.4	5.3	7.8	5.5	7.9	5.6	8.5	5.6	9.0	5.5
	40.0	6.6	5.1	6.9	5.3	7.3	5.3	7.7	5.4	7.8	5.6	8.3	5.5	8.8	5.4
	43.0	6.5	5.1	6.7	5.2	7.1	5.2	7.4	5.3	7.4	5.4	8.1	5.4	8.6	5.4

Cooling capacity in combination with PUHY,PUY,PURY-P200,250YGM

PEFY-P-VMM-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
80 (9.0)	20.0	8.1	5.8	8.6	6.2	9.3	6.2	9.7	6.3	9.9	6.5	10.6	6.4	11.4	6.4
	22.5	8.1	5.8	8.6	6.2	9.3	6.2	9.7	6.3	9.9	6.5	10.6	6.4	11.4	6.4
	25.0	8.1	5.8	8.6	6.2	9.3	6.2	9.7	6.3	9.9	6.5	10.5	6.4	11.2	6.3
	27.5	8.0	5.8	8.5	6.1	9.1	6.1	9.5	6.2	9.7	6.4	10.3	6.3	11.0	6.2
	30.0	7.9	5.8	8.4	6.0	8.9	6.0	9.4	6.1	9.5	6.3	10.1	6.2	10.8	6.1
	32.5	7.7	5.7	8.2	6.0	8.7	5.9	9.1	6.0	9.3	6.2	9.9	6.1	10.5	6.1
	35.0	7.7	5.6	8.1	5.9	8.6	5.8	9.0	6.0	9.1	6.1	9.7	6.1	10.3	6.0
	37.5	7.6	5.6	7.9	5.8	8.4	5.7	8.8	5.9	8.9	6.0	9.5	6.0	10.1	5.9
	40.0	7.4	5.5	7.7	5.7	8.2	5.7	8.6	5.8	8.8	6.0	9.3	5.9	9.9	5.8
	43.0	7.3	5.5	7.6	5.6	8.0	5.6	8.4	5.7	8.4	5.8	9.1	5.8	9.6	5.7
100 (11.2)	20.0	10.0	8.0	10.7	8.4	11.5	8.4	12.1	8.7	12.4	9.0	13.2	8.9	14.2	8.8
	22.5	10.0	8.0	10.7	8.4	11.5	8.4	12.1	8.7	12.4	9.0	13.2	8.9	14.2	8.8
	25.0	10.0	8.0	10.7	8.4	11.5	8.4	12.1	8.7	12.3	8.9	13.1	8.8	13.9	8.7
	27.5	10.0	8.0	10.6	8.4	11.3	8.3	11.9	8.6	12.0	8.8	12.8	8.7	13.7	8.6
	30.0	9.9	7.9	10.4	8.3	11.1	8.2	11.6	8.5	11.9	8.8	12.5	8.6	13.4	8.5
	32.5	9.6	7.8	10.2	8.2	10.9	8.1	11.4	8.4	11.6	8.7	12.3	8.6	13.1	8.4
	35.0	9.5	7.8	10.0	8.1	10.6	8.0	11.2	8.3	11.4	8.6	12.1	8.5	12.8	8.3
	37.5	9.4	7.7	9.9	8.0	10.4	7.9	10.9	8.2	11.1	8.5	11.9	8.4	12.5	8.3
	40.0	9.2	7.6	9.6	7.9	10.2	7.9	10.8	8.1	10.9	8.4	11.6	8.3	12.3	8.2
	43.0	9.1	7.6	9.4	7.8	10.0	7.8	10.4	8.0	10.4	8.2	11.3	8.2	12.0	8.1
125 (14.0)	20.0	12.5	9.8	13.4	10.3	14.4	10.3	15.1	10.6	15.5	10.9	16.5	10.8	17.7	10.8
	22.5	12.5	9.8	13.4	10.3	14.4	10.3	15.1	10.6	15.5	10.9	16.5	10.8	17.7	10.8
	25.0	12.5	9.8	13.4	10.3	14.4	10.3	15.1	10.6	15.4	10.9	16.4	10.8	17.4	10.6
	27.5	12.5	9.8	13.2	10.2	14.1	10.2	14.8	10.5	15.1	10.8	16.0	10.7	17.1	10.5
	30.0	12.3	9.7	13.0	10.1	13.9	10.1	14.6	10.4	14.8	10.7	15.7	10.5	16.7	10.4
	32.5	12.0	9.6	12.7	10.0	13.6	9.9	14.2	10.2	14.5	10.5	15.4	10.4	16.4	10.3
	35.0	11.9	9.5	12.5	9.9	13.3	9.8	14.0	10.1	14.2	10.4	15.1	10.3	16.0	10.2
	37.5	11.8	9.4	12.3	9.8	13.0	9.7	13.7	10.0	13.9	10.3	14.8	10.2	15.7	10.0
	40.0	11.6	9.3	12.0	9.7	12.8	9.6	13.4	9.9	13.7	10.2	14.5	10.1	15.4	9.9
	43.0	11.3	9.2	11.8	9.6	12.5	9.5	13.0	9.7	13.0	10.0	14.1	10.0	15.0	9.8
140 (16.0)	20.0	14.3	10.8	15.3	11.4	16.5	11.4	17.3	11.7	17.7	12.1	18.9	12.0	20.2	11.9
	22.5	14.3	10.8	15.3	11.4	16.5	11.4	17.3	11.7	17.7	12.1	18.9	12.0	20.2	11.9
	25.0	14.3	10.8	15.3	11.4	16.5	11.4	17.3	11.7	17.6	12.1	18.7	11.9	19.8	11.7
	27.5	14.2	10.8	15.1	11.3	16.2	11.3	17.0	11.6	17.2	11.9	18.3	11.8	19.5	11.6
	30.0	14.1	10.7	14.9	11.2	15.8	11.1	16.6	11.4	17.0	11.8	17.9	11.6	19.1	11.5
	32.5	13.8	10.6	14.6	11.1	15.5	11.0	16.2	11.3	16.6	11.6	17.6	11.5	18.7	11.3
	35.0	13.6	10.5	14.3	11.0	15.2	10.8	16.0	11.2	16.2	11.5	17.3	11.4	18.3	11.2
	37.5	13.4	10.4	14.1	10.8	14.9	10.7	15.6	11.0	15.8	11.3	17.0	11.2	17.9	11.1
	40.0	13.2	10.3	13.8	10.7	14.6	10.6	15.4	10.9	15.6	11.2	16.6	11.1	17.6	10.9
	43.0	13.0	10.2	13.4	10.5	14.2	10.4	14.9	10.7	14.9	10.9	16.2	10.9	17.1	10.8

2.1b. Heating capacity in combination with PUHY,PUY,PURY-P200,250YGM

PEFY-P-VMM-E

SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
20 (2.2)	-20.0	1.3	1.3	1.3	1.3
	-15.0	1.6	1.5	1.5	1.5
	-10.0	1.8	1.8	1.8	1.7
	-5.0	2.1	2.1	2.0	1.8
	0.0	2.4	2.4	2.0	1.8
	2.5	2.5	2.5	2.0	1.8
	6.0	2.6	2.5	2.0	1.8
	7.5	2.7	2.5	2.0	1.8
	10.0	2.9	2.5	2.0	1.8
	12.5	3.0	2.5	2.0	1.8
	15.5	3.2	2.5	2.0	1.8
25 (2.8)	-20.0	1.6	1.6	1.6	1.6
	-15.0	2.0	2.0	1.9	1.9
	-10.0	2.3	2.3	2.2	2.2
	-5.0	2.7	2.7	2.6	2.2
	0.0	3.0	3.0	2.6	2.2
	2.5	3.2	3.2	2.6	2.2
	6.0	3.3	3.2	2.6	2.2
	7.5	3.4	3.2	2.6	2.2
	10.0	3.6	3.2	2.6	2.2
	12.5	3.9	3.2	2.6	2.2
	15.5	4.1	3.2	2.6	2.2
32 (3.6)	-20.0	2.1	2.0	2.0	2.0
	-15.0	2.5	2.4	2.4	2.4
	-10.0	2.9	2.9	2.8	2.7
	-5.0	3.4	3.3	3.2	2.8
	0.0	3.8	3.8	3.2	2.8
	2.5	4.0	4.0	3.2	2.8
	6.0	4.2	4.0	3.2	2.8
	7.5	4.3	4.0	3.2	2.8
	10.0	4.6	4.0	3.2	2.8
	12.5	4.8	4.0	3.2	2.8
	15.5	5.1	4.0	3.2	2.8
40 (4.5)	-20.0	2.6	2.5	2.5	2.5
	-15.0	3.1	3.1	3.0	3.0
	-10.0	3.7	3.6	3.5	3.4
	-5.0	4.2	4.2	4.0	3.5
	0.0	4.7	4.7	4.0	3.5
	2.5	5.0	5.0	4.0	3.5
	6.0	5.2	5.0	4.0	3.5
	7.5	5.4	5.0	4.0	3.5
	10.0	5.7	5.0	4.0	3.5
	12.5	6.0	5.0	4.0	3.5
	15.5	6.4	5.0	4.0	3.5
50 (5.6)	-20.0	3.2	3.2	3.2	3.2
	-15.0	3.9	3.8	3.8	3.7
	-10.0	4.6	4.5	4.4	4.3
	-5.0	5.3	5.2	5.0	4.4
	0.0	6.0	5.9	5.0	4.4
	2.5	6.3	6.2	5.0	4.4
	6.0	6.6	6.3	5.0	4.4
	7.5	6.8	6.3	5.0	4.4
	10.0	7.2	6.3	5.0	4.4
	12.5	7.6	6.3	5.0	4.4
	15.5	8.1	6.3	5.0	4.4
63 (7.1)	-20.0	4.1	4.0	4.0	4.0
	-15.0	5.0	4.9	4.8	4.7
	-10.0	5.8	5.8	5.6	5.5
	-5.0	6.7	6.6	6.4	5.6
	0.0	7.6	7.5	6.4	5.6
	2.5	8.0	7.9	6.4	5.6
	6.0	8.3	8.0	6.4	5.6
	7.5	8.6	8.0	6.4	5.6
	10.0	9.1	8.0	6.4	5.6
	12.5	9.6	8.0	6.4	5.6
	15.5	10.2	8.0	6.4	5.6
71 (8.0)	-20.0	4.6	4.5	4.5	4.5
	-15.0	5.6	5.5	5.4	5.3
	-10.0	6.6	6.5	6.3	6.2
	-5.0	7.6	7.5	7.2	6.3
	0.0	8.5	8.5	7.2	6.3
	2.5	9.0	8.9	7.2	6.3
	6.0	9.4	9.0	7.2	6.3
	7.5	9.7	9.0	7.2	6.3
	10.0	10.3	9.0	7.2	6.3
	12.5	10.8	9.0	7.2	6.3
	15.5	11.5	9.0	7.2	6.3

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
80 (9.0)	-20.0	5.2	5.0	5.0	5.0
	-15.0	6.2	6.1	6.0	5.9
	-10.0	7.3	7.2	7.0	6.9
	-5.0	8.4	8.3	8.0	7.0
	0.0	9.5	9.4	8.0	7.0
	2.5	10.0	9.9	8.0	7.0
	6.0	10.4	10.0	8.0	7.0
	7.5	10.8	10.0	8.0	7.0
	10.0	11.4	10.0	8.0	7.0
	12.5	12.1	10.0	8.0	7.0
	15.5	12.8	10.0	8.0	7.0
100 (11.2)	-20.0	6.4	6.3	6.3	6.3
	-15.0	7.8	7.6	7.5	7.4
	-10.0	9.1	9.0	8.8	8.6
	-5.0	10.5	10.4	10.0	8.8
	0.0	11.8	11.8	10.0	8.8
	2.5	12.5	12.4	10.0	8.8
	6.0	13.0	12.5	10.0	8.8
	7.5	13.4	12.5	10.0	8.8
	10.0	14.3	12.5	10.0	8.8
	12.5	15.1	12.5	10.0	8.8
	15.5	16.0	12.5	10.0	8.8
125 (14.0)	-20.0	8.2	8.0	8.0	8.0
	-15.0	9.9	9.8	9.6	9.4
	-10.0	11.7	11.5	11.2	11.0
	-5.0	13.4	13.3	12.8	11.2
	0.0	15.1	15.0	12.8	11.2
	2.5	16.0	15.8	12.8	11.2
	6.0	16.6	16.0	12.8	11.2
	7.5	17.2	16.0	12.8	11.2
	10.0	18.2	16.0	12.8	11.2
	12.5	19.3	16.0	12.8	11.2
	15.5	20.5	16.0	12.8	11.2
140 (16.0)	-20.0	9.3	9.0	9.0	9.0
	-15.0	11.2	11.0	10.8	10.6
	-10.0	13.1	13.0	12.6	12.3
	-5.0	15.1	14.9	14.4	12.6
	0.0	17.0	16.9	14.4	12.6
	2.5	18.0	17.8	14.4	12.6
	6.0	18.7	18.0	14.4	12.6
	7.5	19.4	18.0	14.4	12.6
	10.0	20.5	18.0	14.4	12.6
	12.5	21.7	18.0	14.4	12.6
	15.5	23.0	18.0	14.4	12.6

2.2a. Cooling capacity in combination with PUHY,PUY,PURY-P300,350,400YGM

PEFY-P-VMM-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.8	2.2	1.8	2.4	1.8	2.5	1.9	2.5	2.0	2.7	1.9	2.9	1.9
	22.5	2.1	1.8	2.2	1.8	2.3	1.8	2.4	1.9	2.5	1.9	2.6	1.9	2.8	1.9
	25.0	2.1	1.8	2.2	1.8	2.3	1.8	2.4	1.9	2.4	1.9	2.6	1.9	2.8	1.9
	27.5	2.1	1.7	2.1	1.8	2.3	1.8	2.3	1.8	2.4	1.9	2.5	1.9	2.7	1.9
	30.0	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.8	2.4	1.9	2.5	1.9	2.6	1.8
	32.5	2.0	1.7	2.0	1.8	2.2	1.8	2.2	1.8	2.3	1.9	2.4	1.8	2.6	1.8
	35.0	2.0	1.7	2.0	1.7	2.1	1.7	2.2	1.8	2.3	1.9	2.4	1.8	2.5	1.8
	37.5	1.9	1.7	1.9	1.7	2.1	1.7	2.1	1.8	2.2	1.8	2.4	1.8	2.5	1.8
	40.0	1.9	1.7	1.9	1.7	2.0	1.7	2.1	1.7	2.4	1.9	2.3	1.8	2.4	1.8
	43.0	1.8	1.6	1.8	1.7	2.0	1.7	2.0	1.7	2.1	1.8	2.2	1.8	2.4	1.8
25 (2.8)	20.0	2.7	2.1	2.8	2.1	3.0	2.1	3.1	2.2	3.2	2.2	3.4	2.2	3.6	2.2
	22.5	2.7	2.1	2.8	2.1	3.0	2.1	3.1	2.1	3.2	2.2	3.4	2.2	3.6	2.2
	25.0	2.7	2.0	2.7	2.1	2.9	2.1	3.0	2.1	3.1	2.2	3.3	2.2	3.5	2.1
	27.5	2.6	2.0	2.7	2.1	2.9	2.1	3.0	2.1	3.1	2.2	3.2	2.1	3.4	2.1
	30.0	2.6	2.0	2.6	2.0	2.8	2.0	2.9	2.1	3.0	2.1	3.2	2.1	3.4	2.1
	32.5	2.5	2.0	2.6	2.0	2.8	2.0	2.9	2.0	2.9	2.1	3.1	2.1	3.3	2.1
	35.0	2.5	1.9	2.5	2.0	2.7	2.0	2.8	2.0	2.9	2.1	3.1	2.1	3.2	2.0
	37.5	2.5	1.9	2.5	2.0	2.6	2.0	2.7	2.0	2.8	2.1	3.0	2.1	3.2	2.0
	40.0	2.4	1.9	2.4	1.9	2.6	1.9	2.7	2.0	3.0	2.2	2.9	2.0	3.1	2.0
	43.0	2.4	1.9	2.4	1.9	2.5	1.9	2.6	1.9	2.7	2.0	2.8	2.0	3.0	2.0
32 (3.6)	20.0	3.5	2.6	3.6	2.7	3.9	2.7	4.0	2.7	4.2	2.8	4.4	2.8	4.7	2.7
	22.5	3.5	2.6	3.6	2.7	3.8	2.7	4.0	2.7	4.1	2.8	4.3	2.8	4.6	2.7
	25.0	3.4	2.6	3.5	2.6	3.8	2.6	3.9	2.7	4.0	2.8	4.2	2.7	4.5	2.7
	27.5	3.4	2.5	3.5	2.6	3.7	2.6	3.8	2.6	3.9	2.7	4.2	2.7	4.4	2.7
	30.0	3.3	2.5	3.4	2.6	3.6	2.6	3.7	2.6	3.9	2.7	4.1	2.7	4.3	2.6
	32.5	3.3	2.5	3.3	2.5	3.5	2.5	3.7	2.6	3.8	2.7	4.0	2.6	4.2	2.6
	35.0	3.2	2.5	3.3	2.5	3.5	2.5	3.6	2.5	3.7	2.6	3.9	2.6	4.2	2.6
	37.5	3.2	2.4	3.2	2.5	3.4	2.5	3.5	2.5	3.6	2.6	3.9	2.6	4.1	2.5
	40.0	3.1	2.4	3.1	2.4	3.3	2.4	3.4	2.5	3.9	2.7	3.8	2.5	4.0	2.5
	43.0	3.0	2.4	3.0	2.4	3.2	2.4	3.3	2.4	3.4	2.5	3.7	2.5	3.9	2.5
40 (4.5)	20.0	4.4	3.3	4.5	3.4	4.9	3.4	5.0	3.5	5.2	3.6	5.5	3.6	5.9	3.5
	22.5	4.3	3.3	4.5	3.4	4.8	3.4	5.0	3.5	5.1	3.6	5.4	3.6	5.7	3.5
	25.0	4.3	3.3	4.4	3.4	4.7	3.4	4.9	3.4	5.0	3.6	5.3	3.5	5.6	3.5
	27.5	4.2	3.3	4.3	3.4	4.6	3.3	4.8	3.4	4.9	3.5	5.2	3.5	5.5	3.4
	30.0	4.1	3.2	4.2	3.3	4.5	3.3	4.7	3.4	4.8	3.5	5.1	3.4	5.4	3.4
	32.5	4.1	3.2	4.2	3.3	4.4	3.3	4.6	3.3	4.7	3.5	5.0	3.4	5.3	3.4
	35.0	4.0	3.2	4.1	3.2	4.3	3.2	4.5	3.3	4.6	3.4	4.9	3.4	5.2	3.3
	37.5	4.0	3.1	4.0	3.2	4.3	3.2	4.4	3.2	4.5	3.4	4.8	3.3	5.1	3.3
	40.0	3.9	3.1	3.9	3.2	4.2	3.1	4.3	3.2	4.9	3.5	4.7	3.3	5.0	3.2
	43.0	3.8	3.1	3.8	3.1	4.1	3.1	4.2	3.2	4.3	3.3	4.6	3.2	4.8	3.2
50 (5.6)	20.0	5.4	4.1	5.6	4.2	6.0	4.2	6.3	4.3	6.5	4.4	6.9	4.4	7.3	4.3
	22.5	5.4	4.0	5.6	4.2	6.0	4.1	6.2	4.2	6.4	4.4	6.7	4.3	7.1	4.2
	25.0	5.3	4.0	5.5	4.1	5.9	4.1	6.0	4.2	6.2	4.3	6.6	4.3	7.0	4.2
	27.5	5.2	4.0	5.4	4.1	5.7	4.0	5.9	4.1	6.1	4.3	6.5	4.2	6.9	4.1
	30.0	5.2	3.9	5.3	4.0	5.6	4.0	5.8	4.1	6.0	4.2	6.4	4.2	6.7	4.1
	32.5	5.1	3.9	5.2	4.0	5.5	3.9	5.7	4.0	5.9	4.2	6.2	4.1	6.6	4.1
	35.0	5.0	3.8	5.1	3.9	5.4	3.9	5.6	4.0	5.8	4.1	6.1	4.1	6.5	4.0
	37.5	4.9	3.8	5.0	3.9	5.3	3.8	5.5	3.9	5.7	4.1	6.0	4.0	6.3	4.0
	40.0	4.8	3.8	4.8	3.8	5.2	3.8	5.3	3.9	6.1	4.3	5.9	4.0	6.2	3.9
	43.0	4.7	3.7	4.7	3.8	5.0	3.7	5.2	3.8	5.3	4.0	5.7	3.9	6.0	3.9
63 (7.1)	20.0	6.9	5.1	7.1	5.2	7.7	5.2	8.0	5.3	8.2	5.5	8.7	5.5	9.2	5.4
	22.5	6.9	5.1	7.1	5.2	7.6	5.2	7.8	5.3	8.1	5.5	8.5	5.4	9.1	5.3
	25.0	6.8	5.0	7.0	5.2	7.4	5.1	7.7	5.2	7.9	5.4	8.4	5.3	8.9	5.2
	27.5	6.6	5.0	6.8	5.1	7.3	5.1	7.5	5.1	7.8	5.3	8.2	5.3	8.7	5.2
	30.0	6.5	4.9	6.7	5.0	7.1	5.0	7.4	5.1	7.6	5.3	8.1	5.2	8.5	5.1
	32.5	6.4	4.9	6.6	5.0	7.0	4.9	7.2	5.0	7.5	5.2	7.9	5.1	8.4	5.1
	35.0	6.3	4.8	6.4	4.9	6.8	4.9	7.1	5.0	7.3	5.2	7.7	5.1	8.2	5.0
	37.5	6.2	4.8	6.3	4.8	6.7	4.8	6.9	4.9	7.2	5.1	7.6	5.0	8.0	4.9
	40.0	6.1	4.7	6.1	4.8	6.6	4.7	6.8	4.8	7.7	5.3	7.4	5.0	7.8	4.9
	43.0	6.0	4.6	6.0	4.7	6.4	4.7	6.6	4.8	6.8	4.9	7.2	4.9	7.6	4.8
71 (8.0)	20.0	7.8	5.7	8.0	5.9	8.6	5.9	9.0	6.0	9.2	6.2	9.8	6.1	10.4	6.0
	22.5	7.7	5.7	8.0	5.9	8.5	5.8	8.8	5.9	9.1	6.1	9.6	6.0	10.2	5.9
	25.0	7.6	5.6	7.8	5.8	8.4	5.7	8.6	5.8	8.9	6.0	9.4	6.0	10.0	5.9
	27.5	7.5	5.6	7.7	5.7	8.2	5.7	8.5	5.8	8.7	6.0	9.3	5.9	9.8	5.8
	30.0	7.4	5.5	7.5	5.6	8.0	5.6	8.3	5.7	8.6	5.9	9.1	5.8	9.6	5.7
	32.5	7.2	5.4	7.4	5.6	7.9	5.5	8.2	5.6	8.4	5.8	8.9	5.7	9.4	5.7
	35.0	7.1	5.4	7.2	5.5	7.7	5.4	8.0	5.6	8.2	5.8	8.7	5.7	9.2	5.6
	37.5	7.0	5.3	7.1	5.4	7.6	5.4	7.8	5.5	8.1	5.7	8.6	5.6	9.1	5.5
	40.0	6.9	5.3	6.9	5.3	7.4	5.3	7.6	5.4	8.7	6.0	8.4	5.5	8.8	5.5
	43.0	6.7	5.2	6.7	5.2	7.2	5.2	7.4	5.3	7.6	5.5	8.1	5.5	8.6	5.4

Cooling capacity in combination with PUHY,PUY,PURY-P300,350,400YGM

PEFY-P-VMM-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
80 (9.0)	20.0	8.7	6.2	9.0	6.4	9.7	6.4	10.1	6.5	10.4	6.7	11.0	6.6	11.7	6.5
	22.5	8.7	6.2	9.0	6.4	9.6	6.3	9.9	6.4	10.2	6.6	10.8	6.5	11.5	6.4
	25.0	8.6	6.1	8.8	6.3	9.4	6.2	9.7	6.3	10.0	6.5	10.6	6.4	11.3	6.3
	27.5	8.4	6.0	8.6	6.2	9.2	6.1	9.5	6.2	9.8	6.5	10.4	6.4	11.0	6.3
	30.0	8.3	6.0	8.5	6.1	9.0	6.1	9.4	6.1	9.6	6.4	10.3	6.3	10.8	6.2
	32.5	8.1	5.9	8.3	6.0	8.9	6.0	9.2	6.1	9.5	6.3	10.0	6.2	10.6	6.1
	35.0	8.0	5.8	8.1	5.9	8.6	5.9	9.0	6.0	9.3	6.2	9.8	6.1	10.4	6.0
	37.5	7.9	5.8	8.0	5.8	8.5	5.8	8.8	5.9	9.1	6.1	9.6	6.0	10.2	5.9
	40.0	7.8	5.7	7.8	5.8	8.3	5.7	8.6	5.8	9.8	6.4	9.4	6.0	9.9	5.8
	43.0	7.6	5.6	7.6	5.6	8.1	5.6	8.4	5.7	8.6	5.9	9.1	5.8	9.7	5.8
100 (11.2)	20.0	10.9	8.4	11.3	8.7	12.1	8.7	12.5	8.8	12.9	9.2	13.7	9.1	14.6	8.9
	22.5	10.8	8.4	11.2	8.7	11.9	8.6	12.3	8.8	12.7	9.1	13.5	9.0	14.3	8.8
	25.0	10.7	8.3	11.0	8.6	11.7	8.5	12.1	8.7	12.5	9.0	13.2	8.9	14.0	8.7
	27.5	10.5	8.2	10.8	8.5	11.5	8.4	11.9	8.6	12.2	8.9	13.0	8.8	13.7	8.7
	30.0	10.3	8.1	10.5	8.4	11.3	8.3	11.6	8.5	12.0	8.8	12.8	8.7	13.4	8.6
	32.5	10.1	8.1	10.4	8.3	11.0	8.2	11.4	8.4	11.8	8.7	12.4	8.6	13.2	8.5
	35.0	10.0	8.0	10.1	8.2	10.8	8.1	11.2	8.3	11.5	8.6	12.2	8.5	12.9	8.4
	37.5	9.9	7.9	9.9	8.1	10.6	8.0	10.9	8.2	11.3	8.5	12.0	8.4	12.7	8.3
	40.0	9.7	7.8	9.7	8.0	10.4	7.9	10.7	8.1	12.2	8.9	11.7	8.3	12.4	8.2
	43.0	9.4	7.7	9.4	7.8	10.1	7.8	10.4	8.0	10.7	8.3	11.4	8.2	12.0	8.1
125 (14.0)	20.0	13.6	10.3	14.1	10.6	15.1	10.6	15.7	10.8	16.2	11.2	17.2	11.1	18.2	10.9
	22.5	13.5	10.3	14.0	10.6	14.9	10.5	15.4	10.7	15.9	11.1	16.8	11.0	17.9	10.8
	25.0	13.4	10.2	13.7	10.5	14.6	10.4	15.1	10.6	15.6	11.0	16.5	10.8	17.5	10.7
	27.5	13.1	10.1	13.4	10.3	14.4	10.3	14.8	10.5	15.3	10.9	16.2	10.7	17.2	10.6
	30.0	12.9	10.0	13.2	10.2	14.1	10.2	14.6	10.4	15.0	10.7	16.0	10.6	16.8	10.4
	32.5	12.7	9.9	13.0	10.1	13.8	10.0	14.3	10.2	14.7	10.6	15.5	10.5	16.5	10.3
	35.0	12.5	9.8	12.7	10.0	13.4	9.9	14.0	10.1	14.4	10.5	15.3	10.4	16.2	10.2
	37.5	12.3	9.7	12.4	9.9	13.2	9.8	13.7	10.0	14.1	10.4	15.0	10.3	15.8	10.1
	40.0	12.1	9.6	12.1	9.7	13.0	9.7	13.4	9.9	15.2	10.8	14.6	10.1	15.5	10.0
	43.0	11.8	9.4	11.8	9.6	12.6	9.5	13.0	9.7	13.4	10.1	14.2	10.0	15.1	9.8
140 (16.0)	20.0	15.5	11.4	16.1	11.8	17.3	11.8	17.9	12.0	18.5	12.4	19.6	12.3	20.8	12.1
	22.5	15.4	11.4	16.0	11.8	17.0	11.7	17.6	11.8	18.2	12.3	19.2	12.1	20.4	11.9
	25.0	15.3	11.3	15.7	11.6	16.7	11.5	17.3	11.7	17.8	12.1	18.9	12.0	20.0	11.8
	27.5	15.0	11.2	15.4	11.5	16.4	11.4	17.0	11.6	17.5	12.0	18.5	11.8	19.6	11.6
	30.0	14.7	11.0	15.0	11.3	16.1	11.2	16.6	11.4	17.1	11.9	18.2	11.7	19.2	11.5
	32.5	14.5	10.9	14.8	11.2	15.8	11.1	16.3	11.3	16.8	11.7	17.8	11.5	18.8	11.4
	35.0	14.2	10.8	14.5	11.0	15.4	10.9	16.0	11.2	16.5	11.6	17.4	11.4	18.5	11.2
	37.5	14.1	10.7	14.2	10.9	15.1	10.8	15.6	11.0	16.2	11.5	17.1	11.3	18.1	11.1
	40.0	13.8	10.6	13.8	10.7	14.8	10.7	15.3	10.9	17.4	12.0	16.7	11.2	17.7	11.0
	43.0	13.4	10.4	13.4	10.5	14.4	10.5	14.9	10.7	15.3	11.1	16.2	11.0	17.2	10.8

2.2b. Heating capacity in combination with PUHY,PUY,PURY-P300,350,400YGM

PEFY-P-VMM-E

SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
20 (2.2)	-20.0	1.3	1.3	1.3	1.2
	-15.0	1.5	1.5	1.5	1.5
	-10.0	1.8	1.8	1.7	1.6
	-5.0	2.0	2.0	1.9	1.6
	0.0	2.3	2.3	1.9	1.6
	2.5	2.4	2.4	1.9	1.6
	6.0	2.6	2.5	1.9	1.6
	7.5	2.7	2.5	1.9	1.6
	10.0	2.8	2.5	1.9	1.6
	12.5	2.9	2.5	1.9	1.6
	15.5	2.9	2.5	1.9	1.6
25 (2.8)	-20.0	1.7	1.6	1.6	1.5
	-15.0	1.9	1.9	1.9	1.9
	-10.0	2.2	2.2	2.2	2.0
	-5.0	2.6	2.6	2.4	2.0
	0.0	2.9	2.9	2.4	2.0
	2.5	3.1	3.0	2.4	2.0
	6.0	3.3	3.2	2.4	2.0
	7.5	3.4	3.2	2.4	2.0
	10.0	3.5	3.2	2.4	2.0
	12.5	3.7	3.2	2.4	2.0
	15.5	3.7	3.2	2.4	2.0
32 (3.6)	-20.0	2.1	2.0	2.0	1.9
	-15.0	2.4	2.4	2.4	2.3
	-10.0	2.8	2.8	2.7	2.6
	-5.0	3.2	3.2	3.0	2.6
	0.0	3.6	3.6	3.0	2.6
	2.5	3.8	3.8	3.0	2.6
	6.0	4.1	4.0	3.0	2.6
	7.5	4.2	4.0	3.0	2.6
	10.0	4.4	4.0	3.0	2.6
	12.5	4.6	4.0	3.0	2.6
	15.5	4.6	4.0	3.0	2.6
40 (4.5)	-20.0	2.6	2.5	2.5	2.4
	-15.0	3.0	3.0	3.0	2.9
	-10.0	3.5	3.5	3.4	3.2
	-5.0	4.0	4.0	3.8	3.2
	0.0	4.5	4.5	3.8	3.2
	2.5	4.8	4.7	3.8	3.2
	6.0	5.1	5.0	3.8	3.2
	7.5	5.3	5.0	3.8	3.2
	10.0	5.5	5.0	3.8	3.2
	12.5	5.8	5.0	3.8	3.2
	15.5	5.8	5.0	3.8	3.2
50 (5.6)	-20.0	3.3	3.2	3.2	3.0
	-15.0	3.8	3.8	3.8	3.7
	-10.0	4.4	4.4	4.3	4.0
	-5.0	5.0	5.0	4.7	4.0
	0.0	5.7	5.7	4.7	4.0
	2.5	6.0	6.0	4.7	4.0
	6.0	6.5	6.3	4.7	4.0
	7.5	6.7	6.3	4.7	4.0
	10.0	7.0	6.3	4.7	4.0
	12.5	7.2	6.3	4.7	4.0
	15.5	7.2	6.3	4.7	4.0
63 (7.1)	-20.0	4.2	4.0	4.0	3.8
	-15.0	4.8	4.8	4.8	4.6
	-10.0	5.6	5.6	5.5	5.1
	-5.0	6.4	6.4	6.0	5.1
	0.0	7.2	7.2	6.0	5.1
	2.5	7.6	7.6	6.0	5.1
	6.0	8.2	8.0	6.0	5.1
	7.5	8.5	8.0	6.0	5.1
	10.0	8.8	8.0	6.0	5.1
	12.5	9.2	8.0	6.0	5.1
	15.5	9.2	8.0	6.0	5.1
71 (8.0)	-20.0	4.7	4.5	4.5	4.3
	-15.0	5.4	5.4	5.4	5.2
	-10.0	6.3	6.3	6.2	5.8
	-5.0	7.2	7.2	6.8	5.8
	0.0	8.1	8.1	6.8	5.8
	2.5	8.6	8.5	6.8	5.8
	6.0	9.2	9.0	6.8	5.8
	7.5	9.5	9.0	6.8	5.8
	10.0	9.9	9.0	6.8	5.8
	12.5	10.4	9.0	6.8	5.8
	15.5	10.4	9.0	6.8	5.8

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
80 (9.0)	-20.0	5.2	5.0	5.0	4.8
	-15.0	6.0	6.0	6.0	5.8
	-10.0	7.0	7.0	6.9	6.4
	-5.0	8.0	8.0	7.5	6.4
	0.0	9.0	9.0	7.5	6.4
	2.5	9.6	9.5	7.5	6.4
	6.0	10.3	10.0	7.5	6.4
	7.5	10.6	10.0	7.5	6.4
	10.0	11.1	10.0	7.5	6.4
	12.5	11.5	10.0	7.5	6.4
	15.5	11.5	10.0	7.5	6.4
100 (11.2)	-20.0	6.5	6.3	6.3	6.0
	-15.0	7.5	7.5	7.5	7.3
	-10.0	8.8	8.8	8.6	8.0
	-5.0	10.0	10.0	9.4	8.0
	0.0	11.3	11.3	9.4	8.0
	2.5	11.9	11.8	9.4	8.0
	6.0	12.8	12.5	9.4	8.0
	7.5	13.3	12.5	9.4	8.0
	10.0	13.8	12.5	9.4	8.0
	12.5	14.4	12.5	9.4	8.0
	15.5	14.4	12.5	9.4	8.0
125 (14.0)	-20.0	8.3	8.0	8.0	7.7
	-15.0	9.6	9.6	9.6	9.3
	-10.0	11.2	11.2	11.0	10.2
	-5.0	12.8	12.8	12.0	10.2
	0.0	14.4	14.4	12.0	10.2
	2.5	15.3	15.1	12.0	10.2
	6.0	16.4	16.0	12.0	10.2
	7.5	17.0	16.0	12.0	10.2
	10.0	17.7	16.0	12.0	10.2
	12.5	18.4	16.0	12.0	10.2
	15.5	18.4	16.0	12.0	10.2
140 (16.0)	-20.0	9.4	9.0	9.0	8.6
	-15.0	10.8	10.8	10.8	10.4
	-10.0	12.6	12.6	12.3	11.5
	-5.0	14.4	14.4	13.5	11.5
	0.0	16.2	16.2	13.5	11.5
	2.5	17.2	17.0	13.5	11.5
	6.0	18.5	18.0	13.5	11.5
	7.5	19.1	18.0	13.5	11.5
	10.0	19.9	18.0	13.5	11.5
	12.5	20.7	18.0	13.5	11.5
	15.5	20.7	18.0	13.5	11.5

2.3a. Cooling capacity in combination with PUHY,PURY-P450,500,550,600,650YGM

PEFY-P-VMM-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.8	2.1	1.8	2.3	1.8	2.4	1.8	2.5	1.9	2.6	1.9	2.8	1.9
	22.5	2.1	1.7	2.1	1.8	2.3	1.8	2.3	1.8	2.4	1.9	2.6	1.9	2.7	1.9
	25.0	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.8	2.4	1.9	2.6	1.9	2.7	1.9
	27.5	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.8	2.4	1.9	2.5	1.9	2.6	1.8
	30.0	2.0	1.7	2.0	1.8	2.2	1.8	2.3	1.8	2.4	1.9	2.5	1.9	2.7	1.8
	32.5	2.0	1.7	2.0	1.8	2.2	1.8	2.2	1.8	2.3	1.9	2.5	1.9	2.6	1.8
	35.0	2.0	1.7	2.0	1.7	2.1	1.7	2.2	1.8	2.3	1.9	2.5	1.9	2.6	1.8
	37.5	1.9	1.7	2.0	1.7	2.1	1.7	2.2	1.8	2.3	1.9	2.4	1.8	2.6	1.8
	40.0	1.9	1.7	1.9	1.7	2.1	1.7	2.1	1.8	2.2	1.8	2.4	1.8	2.6	1.8
	43.0	1.9	1.7	1.9	1.7	2.1	1.7	2.1	1.7	2.2	1.8	2.4	1.8	2.6	1.8
25 (2.8)	20.0	2.6	2.0	2.7	2.1	2.9	2.1	3.0	2.1	3.1	2.2	3.3	2.2	3.5	2.1
	22.5	2.6	2.0	2.7	2.1	2.9	2.1	3.0	2.1	3.1	2.2	3.3	2.2	3.5	2.1
	25.0	2.6	2.0	2.7	2.1	2.9	2.0	2.9	2.1	3.1	2.2	3.2	2.1	3.5	2.1
	27.5	2.6	2.0	2.6	2.0	2.8	2.0	2.9	2.1	3.0	2.2	3.2	2.1	3.4	2.1
	30.0	2.5	2.0	2.6	2.0	2.8	2.0	2.9	2.1	3.0	2.1	3.2	2.1	3.4	2.1
	32.5	2.5	2.0	2.6	2.0	2.7	2.0	2.8	2.0	3.0	2.1	3.2	2.1	3.4	2.1
	35.0	2.5	1.9	2.5	2.0	2.7	2.0	2.8	2.0	2.9	2.1	3.1	2.1	3.3	2.1
	37.5	2.5	1.9	2.5	2.0	2.7	2.0	2.8	2.0	2.9	2.1	3.1	2.1	3.3	2.1
	40.0	2.4	1.9	2.5	2.0	2.7	2.0	2.7	2.0	2.9	2.1	3.1	2.1	3.3	2.1
	43.0	2.4	1.9	2.5	2.0	2.6	1.9	2.7	2.0	2.8	2.1	3.0	2.1	3.2	2.0
32 (3.6)	20.0	3.4	2.6	3.5	2.6	3.7	2.6	3.9	2.6	4.0	2.8	4.2	2.7	4.5	2.7
	22.5	3.4	2.5	3.5	2.6	3.7	2.6	3.8	2.6	4.0	2.7	4.2	2.7	4.5	2.7
	25.0	3.3	2.5	3.4	2.6	3.7	2.6	3.8	2.6	3.9	2.7	4.2	2.7	4.4	2.7
	27.5	3.3	2.5	3.4	2.6	3.6	2.6	3.7	2.6	3.9	2.7	4.1	2.7	4.3	2.6
	30.0	3.3	2.5	3.3	2.6	3.6	2.5	3.7	2.6	3.9	2.7	4.1	2.7	4.4	2.6
	32.5	3.2	2.5	3.3	2.5	3.5	2.5	3.6	2.6	3.8	2.7	4.1	2.7	4.3	2.6
	35.0	3.2	2.5	3.3	2.5	3.5	2.5	3.6	2.5	3.7	2.7	4.0	2.6	4.3	2.6
	37.5	3.2	2.4	3.2	2.5	3.5	2.5	3.5	2.5	3.7	2.6	4.0	2.6	4.2	2.6
	40.0	3.1	2.4	3.2	2.5	3.4	2.5	3.5	2.5	3.7	2.6	4.0	2.6	4.2	2.6
	43.0	3.1	2.4	3.2	2.5	3.4	2.5	3.5	2.5	3.6	2.6	3.9	2.6	4.2	2.6
40 (4.5)	20.0	4.3	3.3	4.4	3.4	4.7	3.4	4.8	3.4	5.0	3.6	5.3	3.5	5.7	3.5
	22.5	4.2	3.3	4.3	3.4	4.6	3.3	4.8	3.4	5.0	3.5	5.3	3.5	5.6	3.5
	25.0	4.2	3.2	4.3	3.3	4.6	3.3	4.7	3.4	4.9	3.5	5.2	3.5	5.6	3.4
	27.5	4.1	3.2	4.2	3.3	4.5	3.3	4.7	3.4	4.9	3.5	5.2	3.5	5.4	3.4
	30.0	4.1	3.2	4.2	3.3	4.5	3.3	4.6	3.3	4.8	3.5	5.1	3.4	5.4	3.4
	32.5	4.1	3.2	4.1	3.3	4.4	3.2	4.5	3.3	4.8	3.5	5.1	3.4	5.4	3.4
	35.0	4.0	3.2	4.1	3.2	4.4	3.2	4.5	3.3	4.7	3.4	5.0	3.4	5.4	3.4
	37.5	4.0	3.1	4.0	3.2	4.3	3.2	4.4	3.3	4.7	3.4	5.0	3.4	5.3	3.4
	40.0	3.9	3.1	4.0	3.2	4.3	3.2	4.4	3.2	4.6	3.4	5.0	3.4	5.3	3.3
	43.0	3.9	3.1	3.9	3.2	4.2	3.2	4.3	3.2	4.5	3.4	4.9	3.3	5.2	3.3
50 (5.6)	20.0	5.3	4.0	5.5	4.1	5.8	4.1	6.0	4.1	6.2	4.3	6.6	4.3	7.1	4.2
	22.5	5.3	4.0	5.4	4.1	5.8	4.1	5.9	4.1	6.2	4.3	6.6	4.3	7.0	4.2
	25.0	5.2	3.9	5.3	4.1	5.7	4.0	5.9	4.1	6.1	4.3	6.5	4.2	6.9	4.2
	27.5	5.2	3.9	5.3	4.0	5.7	4.0	5.8	4.1	6.0	4.2	6.4	4.2	6.7	4.1
	30.0	5.1	3.9	5.2	4.0	5.6	4.0	5.8	4.0	6.0	4.2	6.4	4.2	6.8	4.1
	32.5	5.0	3.9	5.2	4.0	5.5	3.9	5.7	4.0	5.9	4.2	6.3	4.2	6.7	4.1
	35.0	5.0	3.8	5.1	3.9	5.5	3.9	5.6	4.0	5.8	4.2	6.3	4.1	6.7	4.1
	37.5	4.9	3.8	5.0	3.9	5.4	3.9	5.5	3.9	5.8	4.1	6.2	4.1	6.6	4.1
	40.0	4.8	3.8	5.0	3.9	5.3	3.9	5.4	3.9	5.7	4.1	6.2	4.1	6.6	4.0
	43.0	4.8	3.8	4.9	3.8	5.3	3.8	5.4	3.9	5.7	4.1	6.0	4.0	6.5	4.0
63 (7.1)	20.0	6.7	5.0	6.9	5.1	7.4	5.1	7.6	5.2	7.9	5.4	8.4	5.3	8.9	5.3
	22.5	6.7	5.0	6.9	5.1	7.3	5.1	7.5	5.1	7.8	5.4	8.3	5.3	8.8	5.2
	25.0	6.6	4.9	6.8	5.1	7.2	5.0	7.5	5.1	7.7	5.3	8.2	5.3	8.8	5.2
	27.5	6.5	4.9	6.7	5.0	7.2	5.0	7.4	5.1	7.7	5.3	8.2	5.2	8.5	5.1
	30.0	6.5	4.9	6.6	5.0	7.1	5.0	7.3	5.1	7.6	5.3	8.1	5.2	8.6	5.1
	32.5	6.4	4.8	6.5	5.0	7.0	4.9	7.2	5.0	7.5	5.2	8.0	5.2	8.5	5.1
	35.0	6.3	4.8	6.4	4.9	6.9	4.9	7.1	5.0	7.4	5.2	8.0	5.2	8.4	5.1
	37.5	6.2	4.8	6.4	4.9	6.8	4.9	7.0	4.9	7.3	5.2	7.8	5.1	8.4	5.1
	40.0	6.1	4.7	6.3	4.8	6.8	4.8	6.9	4.9	7.2	5.1	7.8	5.1	8.3	5.0
	43.0	6.1	4.7	6.2	4.8	6.7	4.8	6.8	4.9	7.2	5.1	7.7	5.1	8.2	5.0
71 (8.0)	20.0	7.6	5.6	7.8	5.8	8.3	5.7	8.6	5.8	8.9	6.1	9.4	6.0	10.1	5.9
	22.5	7.5	5.6	7.7	5.7	8.2	5.7	8.5	5.8	8.8	6.0	9.4	5.9	10.0	5.9
	25.0	7.4	5.5	7.6	5.7	8.2	5.6	8.4	5.7	8.7	6.0	9.3	5.9	9.9	5.8
	27.5	7.4	5.5	7.5	5.6	8.1	5.6	8.3	5.7	8.6	5.9	9.2	5.9	9.6	5.7
	30.0	7.3	5.5	7.4	5.6	8.0	5.6	8.2	5.7	8.6	5.9	9.1	5.8	9.7	5.8
	32.5	7.2	5.4	7.4	5.5	7.8	5.5	8.1	5.6	8.5	5.9	9.0	5.8	9.6	5.7
	35.0	7.1	5.4	7.2	5.5	7.8	5.5	8.0	5.6	8.3	5.8	9.0	5.8	9.5	5.7
	37.5	7.0	5.3	7.2	5.5	7.7	5.4	7.9	5.5	8.3	5.8	8.8	5.7	9.4	5.7
	40.0	6.9	5.3	7.1	5.4	7.6	5.4	7.8	5.5	8.2	5.7	8.8	5.7	9.4	5.6
	43.0	6.9	5.3	7.0	5.4	7.5	5.4	7.7	5.4	8.1	5.7	8.6	5.7	9.3	5.6

Cooling capacity in combination with PUHY,PURY-P450,500,550,600,650YGM

PEFY-P-VMM-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
80 (9.0)	20.0	8.5	6.1	8.8	6.2	9.4	6.2	9.6	6.3	10.0	6.5	10.6	6.4	11.3	6.4
	22.5	8.5	6.1	8.7	6.2	9.3	6.2	9.5	6.2	9.9	6.5	10.6	6.4	11.2	6.3
	25.0	8.4	6.0	8.6	6.2	9.2	6.1	9.5	6.2	9.8	6.4	10.4	6.4	11.1	6.3
	27.5	8.3	6.0	8.5	6.1	9.1	6.1	9.4	6.1	9.7	6.4	10.4	6.3	10.8	6.2
	30.0	8.2	5.9	8.4	6.0	9.0	6.0	9.3	6.1	9.6	6.4	10.3	6.3	10.9	6.2
	32.5	8.1	5.9	8.3	6.0	8.8	6.0	9.1	6.0	9.5	6.3	10.2	6.3	10.8	6.2
	35.0	8.0	5.8	8.1	5.9	8.8	5.9	9.0	6.0	9.4	6.2	10.1	6.2	10.7	6.1
	37.5	7.9	5.8	8.1	5.9	8.6	5.9	8.9	5.9	9.3	6.2	9.9	6.2	10.6	6.1
	40.0	7.8	5.7	8.0	5.8	8.6	5.8	8.7	5.9	9.2	6.2	9.9	6.1	10.5	6.1
	43.0	7.7	5.7	7.9	5.8	8.5	5.8	8.6	5.8	9.1	6.1	9.7	6.1	10.4	6.0
100 (11.2)	20.0	10.6	8.3	10.9	8.5	11.6	8.5	12.0	8.6	12.5	9.0	13.2	8.9	14.1	8.8
	22.5	10.5	8.2	10.8	8.5	11.5	8.4	11.9	8.6	12.3	8.9	13.2	8.9	13.9	8.7
	25.0	10.4	8.2	10.7	8.4	11.4	8.4	11.8	8.5	12.2	8.9	13.0	8.8	13.8	8.7
	27.5	10.3	8.1	10.5	8.4	11.3	8.3	11.6	8.5	12.1	8.9	12.9	8.8	13.4	8.6
	30.0	10.2	8.1	10.4	8.3	11.2	8.3	11.5	8.4	12.0	8.8	12.8	8.7	13.6	8.6
	32.5	10.1	8.0	10.3	8.3	11.0	8.2	11.3	8.3	11.9	8.8	12.7	8.7	13.4	8.6
	35.0	10.0	8.0	10.1	8.2	10.9	8.2	11.2	8.3	11.6	8.7	12.5	8.6	13.3	8.5
	37.5	9.9	7.9	10.0	8.1	10.8	8.1	11.0	8.2	11.6	8.7	12.4	8.6	13.2	8.5
	40.0	9.7	7.8	9.9	8.1	10.7	8.1	10.9	8.2	11.4	8.6	12.3	8.6	13.1	8.4
	43.0	9.6	7.8	9.8	8.0	10.5	8.0	10.8	8.1	11.3	8.5	12.1	8.5	13.0	8.4
125 (14.0)	20.0	13.2	10.1	13.7	10.4	14.6	10.4	15.0	10.5	15.6	11.0	16.5	10.8	17.6	10.7
	22.5	13.2	10.1	13.5	10.4	14.4	10.3	14.8	10.5	15.4	10.9	16.5	10.8	17.4	10.7
	25.0	13.0	10.0	13.4	10.3	14.3	10.2	14.7	10.4	15.3	10.9	16.2	10.7	17.3	10.6
	27.5	12.9	10.0	13.2	10.2	14.1	10.2	14.6	10.4	15.1	10.8	16.1	10.7	16.8	10.4
	30.0	12.7	9.9	13.0	10.1	14.0	10.1	14.4	10.3	15.0	10.7	16.0	10.6	16.9	10.5
	32.5	12.6	9.8	12.9	10.1	13.7	10.0	14.1	10.2	14.8	10.7	15.8	10.6	16.8	10.4
	35.0	12.5	9.8	12.7	10.0	13.7	10.0	14.0	10.1	14.6	10.6	15.7	10.5	16.7	10.4
	37.5	12.3	9.7	12.6	9.9	13.4	9.9	13.8	10.0	14.5	10.5	15.5	10.4	16.5	10.3
	40.0	12.1	9.6	12.4	9.9	13.4	9.9	13.6	9.9	14.3	10.5	15.4	10.4	16.4	10.3
	43.0	12.0	9.6	12.3	9.8	13.2	9.8	13.4	9.9	14.1	10.4	15.1	10.3	16.2	10.2
140 (16.0)	20.0	15.1	11.2	15.6	11.6	16.6	11.5	17.1	11.6	17.8	12.2	18.9	12.0	20.2	11.9
	22.5	15.0	11.2	15.4	11.5	16.5	11.4	17.0	11.6	17.6	12.1	18.8	12.0	19.9	11.8
	25.0	14.9	11.1	15.3	11.4	16.3	11.3	16.8	11.5	17.4	12.0	18.6	11.9	19.8	11.7
	27.5	14.7	11.0	15.0	11.3	16.2	11.3	16.6	11.4	17.3	11.9	18.4	11.8	19.2	11.5
	30.0	14.6	11.0	14.9	11.2	16.0	11.2	16.5	11.4	17.1	11.9	18.2	11.7	19.4	11.6
	32.5	14.4	10.9	14.7	11.1	15.7	11.1	16.2	11.2	17.0	11.8	18.1	11.7	19.2	11.5
	35.0	14.2	10.8	14.5	11.0	15.6	11.0	16.0	11.2	16.6	11.7	17.9	11.6	19.0	11.4
	37.5	14.1	10.7	14.4	11.0	15.4	10.9	15.8	11.1	16.6	11.6	17.7	11.5	18.9	11.4
	40.0	13.8	10.6	14.2	10.9	15.3	10.9	15.5	11.0	16.3	11.5	17.6	11.5	18.7	11.3
	43.0	13.8	10.6	14.0	10.8	15.0	10.8	15.4	10.9	16.2	11.5	17.3	11.4	18.6	11.3

2.3b. Heating capacity in combination with PUHY,PURY-P450,500,550,600,650YGM

PEFY-P-VMM-E

SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
20 (2.2)	-20.0	1.3	1.3	1.3	1.3
	-15.0	1.6	1.5	1.5	1.5
	-10.0	1.8	1.8	1.7	1.7
	-5.0	2.1	2.0	1.9	1.8
	0.0	2.3	2.3	2.0	1.8
	2.5	2.4	2.4	2.0	1.8
	6.0	2.6	2.5	2.0	1.8
	7.5	2.7	2.5	2.0	1.8
	10.0	2.8	2.5	2.0	1.8
	12.5	2.9	2.5	2.0	1.8
	15.5	2.9	2.5	2.0	1.8
25 (2.8)	-20.0	1.7	1.6	1.6	1.6
	-15.0	2.0	1.9	1.9	1.9
	-10.0	2.3	2.2	2.2	2.1
	-5.0	2.6	2.6	2.5	2.3
	0.0	2.9	2.9	2.5	2.3
	2.5	3.1	3.0	2.5	2.3
	6.0	3.3	3.2	2.5	2.3
	7.5	3.4	3.2	2.5	2.3
	10.0	3.6	3.2	2.5	2.3
	12.5	3.7	3.2	2.5	2.3
	15.5	3.7	3.2	2.5	2.3
32 (3.6)	-20.0	2.1	2.0	2.0	2.0
	-15.0	2.5	2.4	2.4	2.3
	-10.0	2.9	2.8	2.7	2.6
	-5.0	3.3	3.2	3.1	2.8
	0.0	3.7	3.6	3.2	2.8
	2.5	3.8	3.8	3.2	2.8
	6.0	4.1	4.0	3.2	2.8
	7.5	4.2	4.0	3.2	2.8
	10.0	4.4	4.0	3.2	2.8
	12.5	4.6	4.0	3.2	2.8
	15.5	4.6	4.0	3.2	2.8
40 (4.5)	-20.0	2.7	2.6	2.6	2.5
	-15.0	3.1	3.0	3.0	2.9
	-10.0	3.6	3.5	3.4	3.3
	-5.0	4.1	4.0	3.9	3.5
	0.0	4.6	4.5	4.0	3.5
	2.5	4.8	4.8	4.0	3.5
	6.0	5.2	5.0	4.0	3.5
	7.5	5.3	5.0	4.0	3.5
	10.0	5.6	5.0	4.0	3.5
	12.5	5.8	5.0	4.0	3.5
	15.5	5.8	5.0	4.0	3.5
50 (5.6)	-20.0	3.3	3.2	3.2	3.2
	-15.0	3.9	3.8	3.8	3.7
	-10.0	4.5	4.4	4.3	4.2
	-5.0	5.2	5.0	4.9	4.4
	0.0	5.8	5.7	5.0	4.4
	2.5	6.0	6.0	5.0	4.4
	6.0	6.5	6.3	5.0	4.4
	7.5	6.7	6.3	5.0	4.4
	10.0	7.0	6.3	5.0	4.4
	12.5	7.3	6.3	5.0	4.4
	15.5	7.3	6.3	5.0	4.4
63 (7.1)	-20.0	4.2	4.1	4.1	4.0
	-15.0	5.0	4.8	4.8	4.6
	-10.0	5.8	5.6	5.4	5.3
	-5.0	6.6	6.4	6.2	5.6
	0.0	7.4	7.2	6.4	5.6
	2.5	7.7	7.6	6.4	5.6
	6.0	8.2	8.0	6.4	5.6
	7.5	8.5	8.0	6.4	5.6
	10.0	8.9	8.0	6.4	5.6
	12.5	9.3	8.0	6.4	5.6
	15.5	9.3	8.0	6.4	5.6
71 (8.0)	-20.0	4.8	4.6	4.6	4.5
	-15.0	5.6	5.4	5.4	5.2
	-10.0	6.5	6.3	6.1	5.9
	-5.0	7.4	7.2	6.9	6.3
	0.0	8.3	8.1	7.2	6.3
	2.5	8.6	8.6	7.2	6.3
	6.0	9.3	9.0	7.2	6.3
	7.5	9.5	9.0	7.2	6.3
	10.0	10.0	9.0	7.2	6.3
	12.5	10.4	9.0	7.2	6.3
	15.5	10.4	9.0	7.2	6.3

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
80 (9.0)	-20.0	5.3	5.1	5.1	5.0
	-15.0	6.3	6.1	6.0	5.8
	-10.0	7.2	7.0	6.8	6.6
	-5.0	8.2	8.0	7.7	7.1
	0.0	9.2	9.0	8.0	7.1
	2.5	9.6	9.5	8.0	7.1
	6.0	10.3	10.0	8.0	7.1
	7.5	10.6	10.0	8.0	7.1
	10.0	11.1	10.0	8.0	7.1
	12.5	11.6	10.0	8.0	7.1
	15.5	11.6	10.0	8.0	7.1
100 (11.2)	-20.0	6.6	6.4	6.4	6.3
	-15.0	7.8	7.6	7.5	7.3
	-10.0	9.0	8.8	8.5	8.3
	-5.0	10.3	10.0	9.6	8.8
	0.0	11.5	11.3	9.9	8.8
	2.5	12.0	11.9	9.9	8.8
	6.0	12.9	12.5	9.9	8.8
	7.5	13.3	12.5	9.9	8.8
	10.0	13.9	12.5	9.9	8.8
	12.5	14.5	12.5	9.9	8.8
	15.5	14.5	12.5	9.9	8.8
125 (14.0)	-20.0	8.5	8.2	8.2	8.0
	-15.0	10.0	9.7	9.6	9.3
	-10.0	11.5	11.2	10.9	10.6
	-5.0	13.1	12.8	12.3	11.3
	0.0	14.7	14.4	12.7	11.3
	2.5	15.4	15.2	12.7	11.3
	6.0	16.5	16.0	12.7	11.3
	7.5	17.0	16.0	12.7	11.3
	10.0	17.8	16.0	12.7	11.3
	12.5	18.6	16.0	12.7	11.3
	15.5	18.6	16.0	12.7	11.3
140 (16.0)	-20.0	9.5	9.2	9.2	9.0
	-15.0	11.3	10.9	10.8	10.4
	-10.0	13.0	12.6	12.2	11.9
	-5.0	14.8	14.4	13.9	12.7
	0.0	16.6	16.2	14.3	12.7
	2.5	17.3	17.1	14.3	12.7
	6.0	18.5	18.0	14.3	12.7
	7.5	19.1	18.0	14.3	12.7
	10.0	20.0	18.0	14.3	12.7
	12.5	20.9	18.0	14.3	12.7
	15.5	20.9	18.0	14.3	12.7

2.4a. Cooling capacity in combination with PUHY-P700,750,800YSGM

PEFY-P-VMM-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.8	2.2	1.8	2.4	1.8	2.4	1.9	2.5	2.0	2.7	1.9	2.9	1.9
	22.5	2.1	1.8	2.2	1.8	2.3	1.8	2.4	1.9	2.5	1.9	2.7	1.9	2.8	1.9
	25.0	2.1	1.7	2.1	1.8	2.3	1.8	2.4	1.8	2.4	1.9	2.6	1.9	2.8	1.9
	27.5	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.8	2.4	1.9	2.6	1.9	2.7	1.9
	30.0	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.8	2.4	1.9	2.5	1.9	2.7	1.9
	32.5	1.9	1.7	2.0	1.8	2.2	1.8	2.2	1.8	2.3	1.9	2.5	1.9	2.6	1.8
	35.0	1.9	1.7	2.0	1.7	2.1	1.7	2.2	1.8	2.3	1.9	2.4	1.8	2.6	1.8
	37.5	1.9	1.7	2.0	1.7	2.1	1.7	2.2	1.8	2.2	1.8	2.4	1.8	2.5	1.8
	40.0	1.8	1.6	1.9	1.7	2.0	1.7	2.1	1.7	2.2	1.8	2.3	1.8	2.5	1.8
	43.0	1.8	1.6	1.8	1.7	2.0	1.7	2.1	1.7	2.1	1.8	2.3	1.8	2.4	1.8
25 (2.8)	20.0	2.7	2.1	2.8	2.1	3.0	2.1	3.1	2.2	3.2	2.2	3.4	2.2	3.7	2.2
	22.5	2.7	2.0	2.8	2.1	3.0	2.1	3.1	2.1	3.2	2.2	3.4	2.2	3.6	2.2
	25.0	2.6	2.0	2.7	2.1	2.9	2.1	3.0	2.1	3.1	2.2	3.3	2.2	3.5	2.1
	27.5	2.6	2.0	2.7	2.1	2.9	2.0	3.0	2.1	3.1	2.2	3.3	2.2	3.5	2.1
	30.0	2.5	2.0	2.6	2.0	2.8	2.0	2.9	2.1	3.0	2.1	3.2	2.1	3.4	2.1
	32.5	2.5	1.9	2.6	2.0	2.7	2.0	2.8	2.0	2.9	2.1	3.1	2.1	3.3	2.1
	35.0	2.4	1.9	2.5	2.0	2.7	2.0	2.8	2.0	2.9	2.1	3.1	2.1	3.3	2.1
	37.5	2.4	1.9	2.5	2.0	2.6	2.0	2.7	2.0	2.8	2.1	3.0	2.1	3.2	2.0
	40.0	2.4	1.9	2.4	1.9	2.6	1.9	2.7	2.0	2.8	2.1	3.0	2.0	3.2	2.0
	43.0	2.3	1.9	2.4	1.9	2.5	1.9	2.6	1.9	2.7	2.0	2.9	2.0	3.1	2.0
32 (3.6)	20.0	3.5	2.6	3.6	2.7	3.9	2.7	4.0	2.7	4.1	2.8	4.4	2.8	4.7	2.8
	22.5	3.4	2.6	3.5	2.6	3.8	2.6	3.9	2.7	4.1	2.8	4.4	2.8	4.6	2.7
	25.0	3.4	2.5	3.5	2.6	3.7	2.6	3.9	2.7	4.0	2.8	4.2	2.7	4.5	2.7
	27.5	3.3	2.5	3.4	2.6	3.7	2.6	3.8	2.6	3.9	2.7	4.2	2.7	4.5	2.7
	30.0	3.2	2.5	3.4	2.6	3.6	2.5	3.7	2.6	3.9	2.7	4.1	2.7	4.4	2.6
	32.5	3.2	2.4	3.3	2.5	3.5	2.5	3.7	2.6	3.8	2.7	4.0	2.6	4.3	2.6
	35.0	3.1	2.4	3.2	2.5	3.5	2.5	3.6	2.5	3.7	2.6	4.0	2.6	4.2	2.6
	37.5	3.1	2.4	3.2	2.5	3.4	2.5	3.5	2.5	3.7	2.6	3.9	2.6	4.1	2.6
	40.0	3.0	2.4	3.1	2.4	3.3	2.4	3.5	2.5	3.6	2.6	3.8	2.6	4.1	2.5
	43.0	3.0	2.3	3.0	2.4	3.2	2.4	3.4	2.4	3.5	2.6	3.7	2.5	4.0	2.5
40 (4.5)	20.0	4.3	3.3	4.5	3.4	4.8	3.4	5.0	3.5	5.2	3.6	5.5	3.6	5.9	3.6
	22.5	4.3	3.3	4.4	3.4	4.7	3.4	4.9	3.5	5.1	3.6	5.4	3.6	5.8	3.5
	25.0	4.2	3.3	4.4	3.4	4.7	3.4	4.8	3.4	5.0	3.6	5.3	3.5	5.7	3.5
	27.5	4.1	3.2	4.3	3.3	4.6	3.3	4.7	3.4	4.9	3.5	5.2	3.5	5.6	3.4
	30.0	4.1	3.2	4.2	3.3	4.5	3.3	4.7	3.3	4.8	3.5	5.1	3.4	5.5	3.4
	32.5	4.0	3.2	4.1	3.3	4.4	3.2	4.6	3.3	4.7	3.5	5.0	3.4	5.4	3.4
	35.0	3.9	3.1	4.1	3.2	4.3	3.2	4.5	3.3	4.6	3.4	5.0	3.4	5.3	3.3
	37.5	3.8	3.1	4.0	3.2	4.3	3.2	4.4	3.2	4.6	3.4	4.9	3.3	5.2	3.3
	40.0	3.8	3.1	3.9	3.1	4.2	3.1	4.3	3.2	4.5	3.4	4.8	3.3	5.1	3.3
	43.0	3.7	3.0	3.8	3.1	4.1	3.1	4.2	3.2	4.4	3.3	4.7	3.3	5.0	3.2
50 (5.6)	20.0	5.4	4.0	5.6	4.2	6.0	4.2	6.2	4.2	6.4	4.4	6.9	4.4	7.3	4.3
	22.5	5.3	4.0	5.5	4.1	5.9	4.1	6.1	4.2	6.3	4.4	6.8	4.3	7.2	4.3
	25.0	5.3	4.0	5.4	4.1	5.8	4.1	6.0	4.2	6.2	4.3	6.6	4.3	7.1	4.2
	27.5	5.2	3.9	5.3	4.0	5.7	4.0	5.9	4.1	6.1	4.3	6.5	4.2	6.9	4.2
	30.0	5.0	3.9	5.2	4.0	5.6	4.0	5.8	4.1	6.0	4.2	6.4	4.2	6.8	4.1
	32.5	5.0	3.8	5.1	4.0	5.5	3.9	5.7	4.0	5.9	4.2	6.3	4.1	6.7	4.1
	35.0	4.9	3.8	5.0	3.9	5.4	3.9	5.6	4.0	5.8	4.1	6.2	4.1	6.6	4.0
	37.5	4.8	3.7	5.0	3.9	5.3	3.8	5.5	3.9	5.7	4.1	6.0	4.0	6.4	4.0
	40.0	4.7	3.7	4.8	3.8	5.2	3.8	5.4	3.9	5.6	4.0	5.9	4.0	6.3	3.9
	43.0	4.6	3.7	4.7	3.8	5.0	3.7	5.2	3.8	5.4	4.0	5.8	4.0	6.2	3.9
63 (7.1)	20.0	6.9	5.1	7.1	5.2	7.6	5.2	7.9	5.3	8.2	5.5	8.7	5.5	9.3	5.4
	22.5	6.7	5.0	7.0	5.2	7.5	5.2	7.8	5.2	8.0	5.5	8.6	5.4	9.1	5.3
	25.0	6.7	5.0	6.9	5.1	7.4	5.1	7.6	5.2	7.9	5.4	8.4	5.3	8.9	5.3
	27.5	6.5	4.9	6.7	5.1	7.2	5.0	7.5	5.1	7.7	5.3	8.3	5.3	8.8	5.2
	30.0	6.4	4.8	6.6	5.0	7.1	5.0	7.3	5.1	7.6	5.3	8.1	5.2	8.7	5.2
	32.5	6.3	4.8	6.5	4.9	7.0	4.9	7.2	5.0	7.5	5.2	8.0	5.2	8.5	5.1
	35.0	6.2	4.7	6.4	4.9	6.8	4.9	7.1	5.0	7.3	5.2	7.8	5.1	8.3	5.0
	37.5	6.1	4.7	6.3	4.9	6.7	4.8	7.0	4.9	7.2	5.1	7.7	5.1	8.2	5.0
	40.0	6.0	4.6	6.1	4.8	6.6	4.7	6.8	4.9	7.1	5.1	7.5	5.0	8.0	4.9
	43.0	5.8	4.6	6.0	4.7	6.4	4.7	6.6	4.8	6.9	5.0	7.3	4.9	7.8	4.9
71 (8.0)	20.0	7.7	5.7	8.0	5.9	8.6	5.8	8.9	5.9	9.2	6.2	9.8	6.1	10.4	6.0
	22.5	7.6	5.6	7.9	5.8	8.4	5.8	8.7	5.9	9.0	6.1	9.7	6.1	10.2	6.0
	25.0	7.5	5.6	7.8	5.7	8.3	5.7	8.6	5.8	8.9	6.0	9.4	6.0	10.1	5.9
	27.5	7.4	5.5	7.6	5.7	8.2	5.6	8.4	5.7	8.7	6.0	9.3	5.9	9.9	5.8
	30.0	7.2	5.4	7.5	5.6	8.0	5.6	8.3	5.7	8.6	5.9	9.1	5.8	9.8	5.8
	32.5	7.1	5.4	7.3	5.5	7.8	5.5	8.1	5.6	8.4	5.8	9.0	5.8	9.6	5.7
	35.0	7.0	5.3	7.2	5.5	7.7	5.4	8.0	5.6	8.2	5.8	8.8	5.7	9.4	5.6
	37.5	6.8	5.2	7.1	5.4	7.6	5.4	7.8	5.5	8.1	5.7	8.6	5.7	9.2	5.6
	40.0	6.7	5.2	6.9	5.3	7.4	5.3	7.7	5.4	8.0	5.7	8.5	5.6	9.0	5.5
	43.0	6.6	5.1	6.7	5.2	7.2	5.2	7.5	5.3	7.8	5.6	8.3	5.5	8.8	5.4

Cooling capacity in combination with PUHY-P700,750,800YSGM

PEFY-P-VMM-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
80 (9.0)	20.0	8.7	6.2	9.0	6.4	9.7	6.4	10.0	6.4	10.4	6.7	11.1	6.6	11.7	6.5
	22.5	8.6	6.1	8.9	6.3	9.5	6.3	9.8	6.4	10.2	6.6	10.9	6.6	11.5	6.4
	25.0	8.5	6.1	8.7	6.2	9.4	6.2	9.7	6.3	10.0	6.5	10.6	6.4	11.3	6.4
	27.5	8.3	6.0	8.6	6.1	9.2	6.1	9.5	6.2	9.8	6.4	10.5	6.4	11.2	6.3
	30.0	8.1	5.9	8.4	6.1	9.0	6.0	9.3	6.1	9.6	6.4	10.3	6.3	11.0	6.2
	32.5	8.0	5.8	8.2	6.0	8.8	6.0	9.1	6.0	9.5	6.3	10.1	6.2	10.8	6.1
	35.0	7.8	5.7	8.1	5.9	8.6	5.9	9.0	6.0	9.3	6.2	9.9	6.1	10.5	6.1
	37.5	7.7	5.7	8.0	5.9	8.5	5.8	8.8	5.9	9.1	6.1	9.7	6.1	10.4	6.0
	40.0	7.6	5.6	7.7	5.7	8.3	5.7	8.6	5.8	9.0	6.1	9.5	6.0	10.1	5.9
	43.0	7.4	5.5	7.6	5.6	8.1	5.6	8.4	5.7	8.7	6.0	9.3	5.9	9.9	5.8
100 (11.2)	20.0	10.8	8.4	11.2	8.7	12.0	8.6	12.5	8.8	12.9	9.2	13.8	9.1	14.6	9.0
	22.5	10.6	8.3	11.0	8.6	11.8	8.6	12.2	8.7	12.7	9.1	13.6	9.0	14.3	8.9
	25.0	10.5	8.2	10.9	8.5	11.6	8.5	12.0	8.6	12.4	9.0	13.2	8.9	14.1	8.8
	27.5	10.3	8.1	10.6	8.4	11.4	8.4	11.8	8.5	12.2	8.9	13.0	8.8	13.9	8.7
	30.0	10.1	8.0	10.5	8.3	11.2	8.3	11.6	8.5	12.0	8.8	12.8	8.7	13.7	8.6
	32.5	9.9	8.0	10.2	8.2	11.0	8.2	11.4	8.4	11.8	8.7	12.5	8.6	13.4	8.5
	35.0	9.7	7.9	10.1	8.1	10.8	8.1	11.2	8.3	11.5	8.6	12.3	8.6	13.1	8.4
	37.5	9.6	7.8	10.0	8.1	10.6	8.0	11.0	8.2	11.4	8.6	12.1	8.5	12.9	8.4
	40.0	9.4	7.7	9.6	7.9	10.4	7.9	10.8	8.1	11.1	8.5	11.9	8.4	12.6	8.3
	43.0	9.2	7.6	9.4	7.8	10.1	7.8	10.5	8.0	10.9	8.4	11.6	8.3	12.3	8.2
125 (14.0)	20.0	13.5	10.3	14.0	10.6	15.1	10.6	15.6	10.8	16.1	11.2	17.2	11.1	18.3	11.0
	22.5	13.3	10.2	13.8	10.5	14.8	10.5	15.3	10.7	15.8	11.1	16.9	11.0	17.9	10.8
	25.0	13.2	10.1	13.6	10.4	14.6	10.4	15.1	10.6	15.5	11.0	16.5	10.8	17.6	10.7
	27.5	12.9	10.0	13.3	10.3	14.3	10.2	14.8	10.4	15.3	10.9	16.3	10.8	17.4	10.6
	30.0	12.6	9.8	13.1	10.2	14.0	10.1	14.5	10.3	15.0	10.7	16.0	10.6	17.1	10.5
	32.5	12.4	9.7	12.8	10.0	13.7	10.0	14.2	10.2	14.7	10.6	15.7	10.5	16.7	10.4
	35.0	12.2	9.6	12.6	10.0	13.4	9.9	14.0	10.1	14.4	10.5	15.4	10.4	16.4	10.3
	37.5	12.0	9.5	12.5	9.9	13.2	9.8	13.7	10.0	14.2	10.4	15.1	10.3	16.1	10.2
	40.0	11.8	9.4	12.0	9.7	13.0	9.7	13.4	9.9	13.9	10.3	14.8	10.2	15.8	10.1
	43.0	11.5	9.3	11.8	9.6	12.6	9.5	13.1	9.8	13.6	10.2	14.5	10.1	15.4	9.9
140 (16.0)	20.0	15.4	11.4	16.0	11.8	17.2	11.7	17.8	11.9	18.4	12.4	19.7	12.3	20.9	12.1
	22.5	15.2	11.3	15.8	11.6	16.9	11.6	17.5	11.8	18.1	12.3	19.4	12.2	20.5	12.0
	25.0	15.0	11.2	15.5	11.5	16.6	11.5	17.2	11.7	17.8	12.1	18.9	12.0	20.2	11.9
	27.5	14.7	11.0	15.2	11.4	16.3	11.3	16.9	11.5	17.4	12.0	18.6	11.9	19.8	11.7
	30.0	14.4	10.9	15.0	11.3	16.0	11.2	16.6	11.4	17.1	11.9	18.2	11.7	19.5	11.6
	32.5	14.2	10.8	14.6	11.1	15.7	11.1	16.2	11.3	16.8	11.7	17.9	11.6	19.1	11.5
	35.0	13.9	10.6	14.4	11.0	15.4	10.9	16.0	11.2	16.5	11.6	17.6	11.5	18.7	11.3
	37.5	13.7	10.5	14.2	10.9	15.1	10.8	15.7	11.0	16.2	11.5	17.3	11.4	18.4	11.2
	40.0	13.4	10.4	13.8	10.7	14.8	10.7	15.4	10.9	15.9	11.4	17.0	11.2	18.0	11.1
	43.0	13.1	10.3	13.4	10.5	14.4	10.5	15.0	10.7	15.5	11.2	16.6	11.1	17.6	10.9

2.4b. Heating capacity in combination with PUHY-P700,750,800YSGM

PEFY-P-VMM-E

SHC:Sensible Heat Capacity(kW)

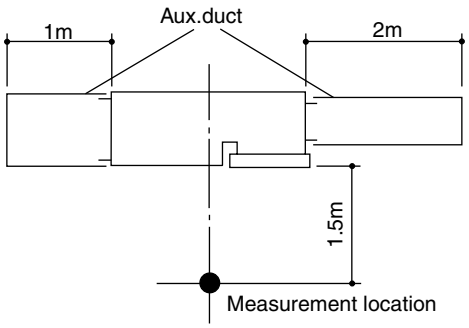
Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
20 (2.2)	-20.0	1.3	1.3	1.3	1.2
	-15.0	1.5	1.5	1.5	1.5
	-10.0	1.8	1.8	1.7	1.7
	-5.0	2.0	2.0	1.9	1.8
	0.0	2.3	2.2	2.0	1.8
	2.5	2.4	2.4	2.0	1.8
	6.0	2.6	2.5	2.0	1.8
	7.5	2.7	2.5	2.0	1.8
	10.0	2.8	2.5	2.0	1.8
	12.5	2.9	2.5	2.0	1.8
	15.5	2.9	2.5	2.0	1.8
25 (2.8)	-20.0	1.6	1.6	1.6	1.6
	-15.0	2.0	1.9	1.9	1.9
	-10.0	2.3	2.2	2.2	2.1
	-5.0	2.6	2.6	2.5	2.4
	0.0	2.9	2.9	2.5	2.4
	2.5	3.1	3.0	2.5	2.4
	6.0	3.3	3.2	2.5	2.4
	7.5	3.4	3.2	2.5	2.4
	10.0	3.6	3.2	2.5	2.4
	12.5	3.7	3.2	2.5	2.4
	15.5	3.7	3.2	2.5	2.4
32 (3.6)	-20.0	2.0	2.0	2.0	2.0
	-15.0	2.4	2.4	2.4	2.3
	-10.0	2.8	2.8	2.7	2.7
	-5.0	3.2	3.2	3.1	2.9
	0.0	3.6	3.6	3.2	2.9
	2.5	3.8	3.8	3.2	2.9
	6.0	4.1	4.0	3.2	2.9
	7.5	4.2	4.0	3.2	2.9
	10.0	4.4	4.0	3.2	2.9
	12.5	4.6	4.0	3.2	2.9
	15.5	4.6	4.0	3.2	2.9
40 (4.5)	-20.0	2.5	2.5	2.5	2.5
	-15.0	3.1	3.0	3.0	2.9
	-10.0	3.6	3.5	3.4	3.4
	-5.0	4.1	4.0	3.9	3.7
	0.0	4.6	4.5	4.0	3.7
	2.5	4.8	4.7	4.0	3.7
	6.0	5.2	5.0	4.0	3.7
	7.5	5.3	5.0	4.0	3.7
	10.0	5.6	5.0	4.0	3.7
	12.5	5.8	5.0	4.0	3.7
	15.5	5.8	5.0	4.0	3.7
50 (5.6)	-20.0	3.2	3.2	3.2	3.1
	-15.0	3.8	3.8	3.7	3.7
	-10.0	4.5	4.4	4.3	4.2
	-5.0	5.1	5.0	4.9	4.6
	0.0	5.7	5.6	5.0	4.6
	2.5	6.0	5.9	5.0	4.6
	6.0	6.5	6.3	5.0	4.6
	7.5	6.7	6.3	5.0	4.6
	10.0	7.0	6.3	5.0	4.6
	12.5	7.3	6.3	5.0	4.6
	15.5	7.3	6.3	5.0	4.6
63 (7.1)	-20.0	4.0	4.0	4.0	3.9
	-15.0	4.9	4.8	4.8	4.6
	-10.0	5.7	5.6	5.4	5.4
	-5.0	6.5	6.4	6.2	5.9
	0.0	7.3	7.2	6.4	5.9
	2.5	7.7	7.5	6.4	5.9
	6.0	8.2	8.0	6.4	5.9
	7.5	8.5	8.0	6.4	5.9
	10.0	8.9	8.0	6.4	5.9
	12.5	9.3	8.0	6.4	5.9
	15.5	9.3	8.0	6.4	5.9
71 (8.0)	-20.0	4.5	4.5	4.5	4.4
	-15.0	5.5	5.4	5.4	5.2
	-10.0	6.4	6.3	6.1	6.0
	-5.0	7.3	7.2	6.9	6.6
	0.0	8.2	8.1	7.2	6.6
	2.5	8.6	8.5	7.2	6.6
	6.0	9.3	9.0	7.2	6.6
	7.5	9.5	9.0	7.2	6.6
	10.0	10.0	9.0	7.2	6.6
	12.5	10.4	9.0	7.2	6.6
	15.5	10.4	9.0	7.2	6.6

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
80 (9.0)	-20.0	5.0	5.0	5.0	4.9
	-15.0	6.1	6.0	6.0	5.8
	-10.0	7.1	7.0	6.8	6.7
	-5.0	8.1	8.0	7.7	7.4
	0.0	9.1	9.0	8.0	7.4
	2.5	9.6	9.4	8.0	7.4
	6.0	10.3	10.0	8.0	7.4
	7.5	10.6	10.0	8.0	7.4
	10.0	11.1	10.0	8.0	7.4
	12.5	11.6	10.0	8.0	7.4
	15.5	11.6	10.0	8.0	7.4
100 (11.2)	-20.0	6.3	6.3	6.3	6.1
	-15.0	7.6	7.5	7.4	7.3
	-10.0	8.9	8.8	8.5	8.4
	-5.0	10.1	10.0	9.6	9.2
	0.0	11.4	11.2	9.9	9.2
	2.5	12.0	11.8	9.9	9.2
	6.0	12.9	12.5	9.9	9.2
	7.5	13.3	12.5	9.9	9.2
	10.0	13.9	12.5	9.9	9.2
	12.5	14.5	12.5	9.9	9.2
	15.5	14.5	12.5	9.9	9.2
125 (14.0)	-20.0	8.0	8.0	8.0	7.8
	-15.0	9.8	9.6	9.5	9.3
	-10.0	11.4	11.2	10.9	10.7
	-5.0	13.0	12.8	12.3	11.8
	0.0	14.6	14.3	12.7	11.8
	2.5	15.4	15.0	12.7	11.8
	6.0	16.5	16.0	12.7	11.8
	7.5	17.0	16.0	12.7	11.8
	10.0	17.8	16.0	12.7	11.8
	12.5	18.6	16.0	12.7	11.8
	15.5	18.6	16.0	12.7	11.8
140 (16.0)	-20.0	9.0	9.0	9.0	8.8
	-15.0	11.0	10.8	10.7	10.4
	-10.0	12.8	12.6	12.2	12.1
	-5.0	14.6	14.4	13.9	13.2
	0.0	16.4	16.1	14.3	13.2
	2.5	17.3	16.9	14.3	13.2
	6.0	18.5	18.0	14.3	13.2
	7.5	19.1	18.0	14.3	13.2
	10.0	20.0	18.0	14.3	13.2
	12.5	20.9	18.0	14.3	13.2
	15.5	20.9	18.0	14.3	13.2

3. Sound Levels

3.1 Noise levels(VMM-E)

Ceiling concealed (VMM-E series)



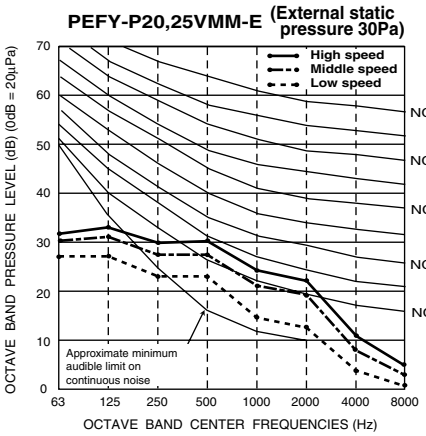
Noise level at anechoic room (Low-Mid-High) Unit : dB(A)

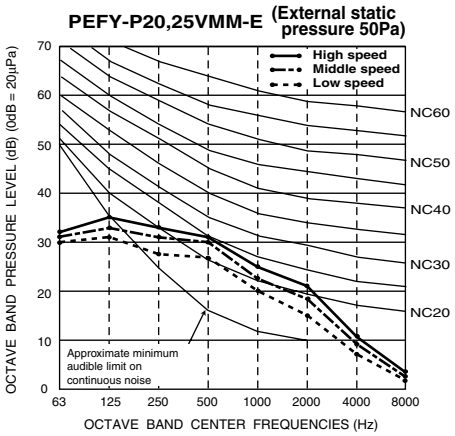
Model	External static pressure❊		
	Low	Mid	High
PEFY-P20VMM-E PEFY-P25VMM-E	23-28-31	27-30-32	29-34-39
PEFY-P32VMM-E	26-30-33	28-32-35	32-36-39
PEFY-P40VMM-E	29-32-35	31-34-37	33-37-41
PEFY-P50VMM-E	29-34-37	31-35-38	34-38-41
PEFY-P63VMM-E	30-34-37	31-35-38	34-38-41
PEFY-P71VMM-E PEFY-P80VMM-E	31-34-37	32-36-39	35-39-42
PEFY-P100VMM-E	40-44	-	43-47
PEFY-P125VMM-E	42-45	-	44-47
PEFY-P140VMM-E	42-45	-	44-47

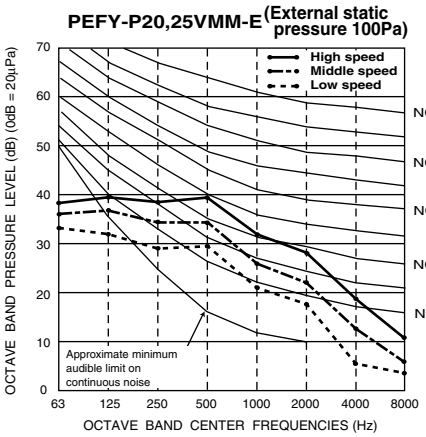
❊ PEFY-P20~80VMM-E
Low : 30Pa Mid : 50Pa High : 100Pa
❊ PEFY-P100~140VMM-E
Low : 50Pa High : 130Pa

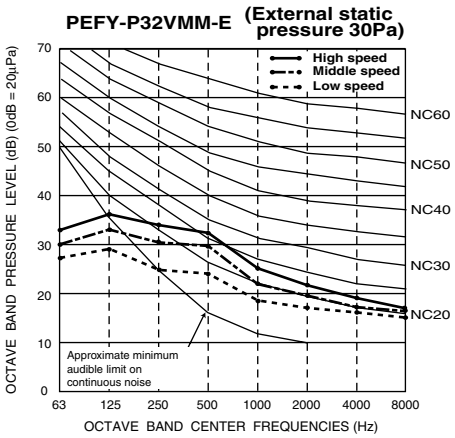
3.2 NC curves(VMM-E)

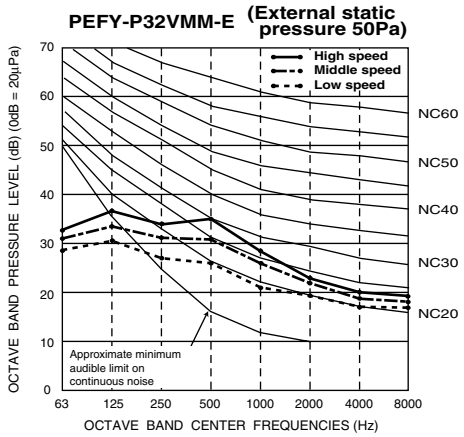
1) Back inlet

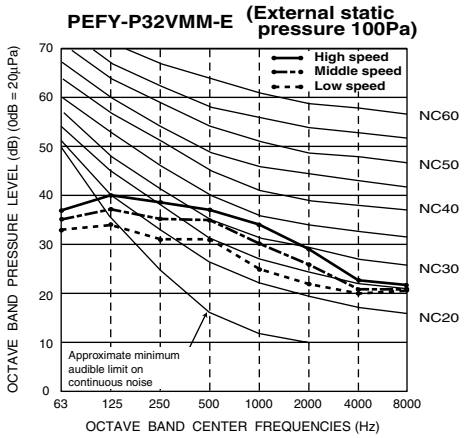


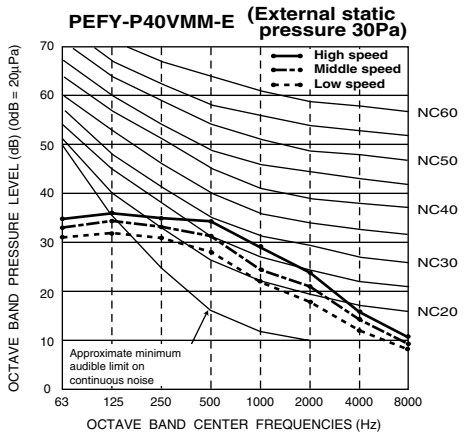


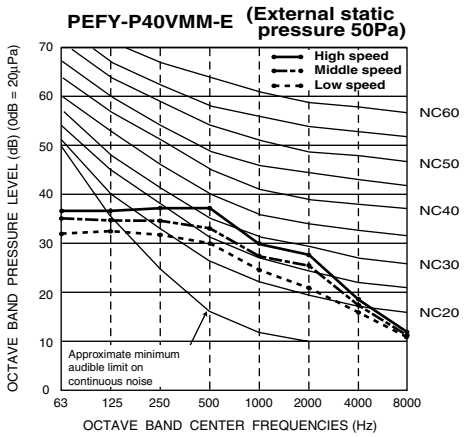


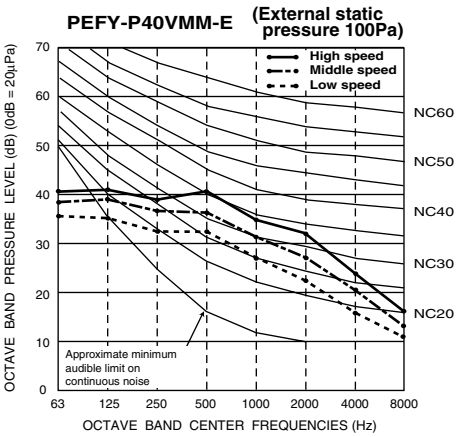


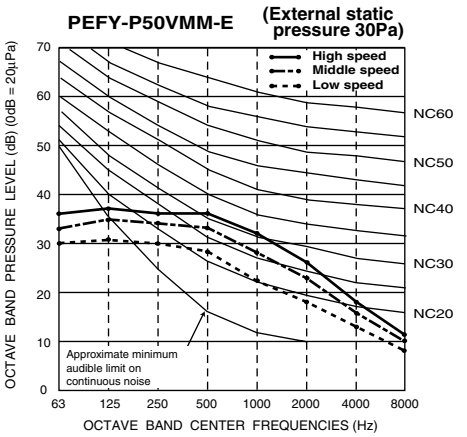

PEFY-P32VMM-E (External static pressure 50Pa)
High speed
Middle speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) (0dB = 20μPa)
OCTAVE BAND CENTER FREQUENCIES (Hz)

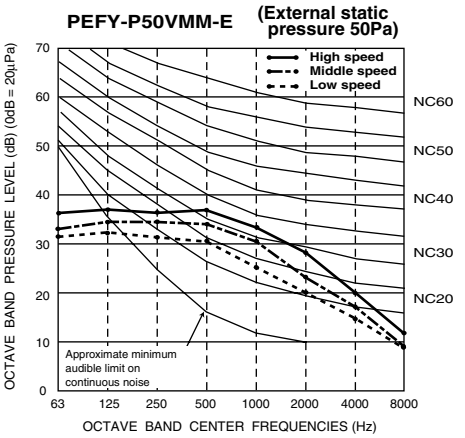

PEFY-P32VMM-E (External static pressure 100Pa)
High speed
Middle speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) (0dB = 20μPa)
OCTAVE BAND CENTER FREQUENCIES (Hz)

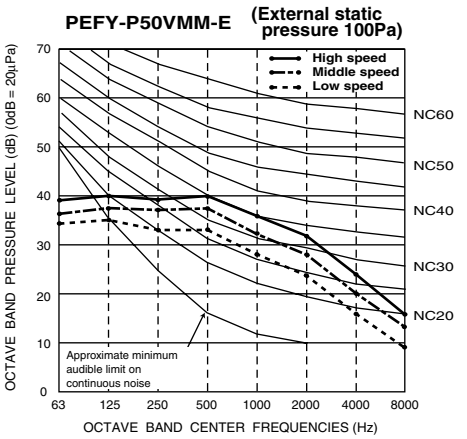

PEFY-P40VMM-E (External static pressure 30Pa)
High speed
Middle speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) (0dB = 20μPa)
OCTAVE BAND CENTER FREQUENCIES (Hz)

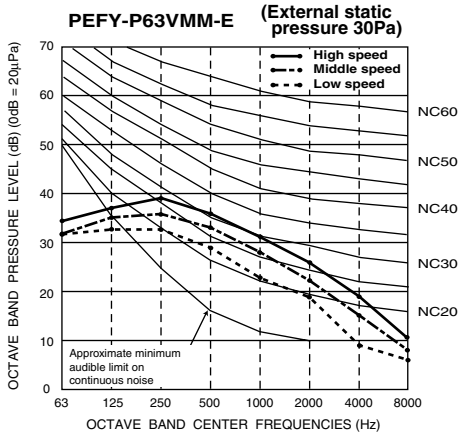

PEFY-P40VMM-E (External static pressure 50Pa)
High speed
Middle speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) (0dB = 20μPa)
OCTAVE BAND CENTER FREQUENCIES (Hz)

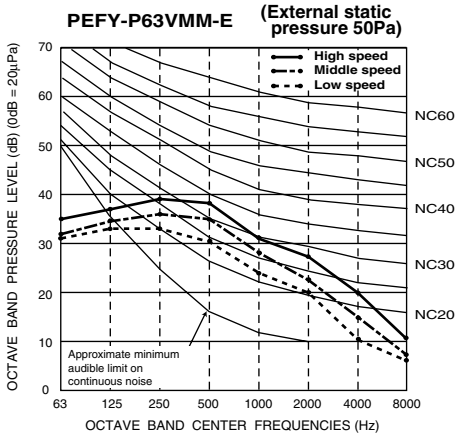

PEFY-P40VMM-E (External static pressure 100Pa)
High speed
Middle speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) (0dB = 20μPa)
OCTAVE BAND CENTER FREQUENCIES (Hz)

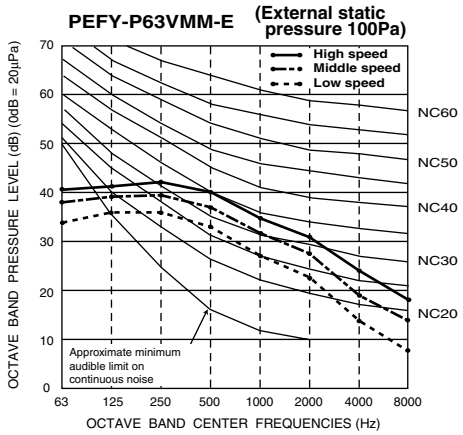

PEFY-P50VMM-E (External static pressure 30Pa)
High speed
Middle speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) (0dB = 20μPa)
OCTAVE BAND CENTER FREQUENCIES (Hz)

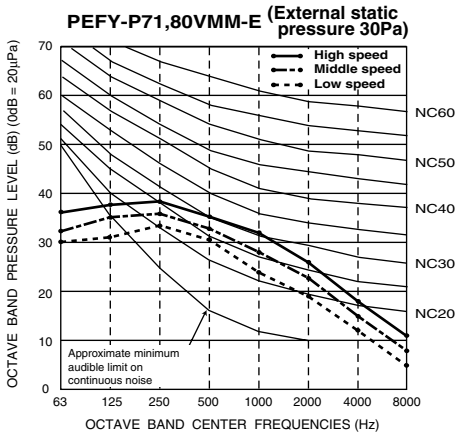

PEFY-P50VMM-E (External static pressure 50Pa)
High speed
Middle speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) (0dB = 20μPa)
OCTAVE BAND CENTER FREQUENCIES (Hz)

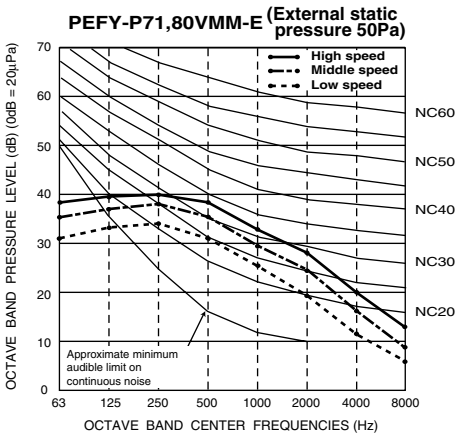

PEFY-P50VMM-E (External static pressure 100Pa)
High speed
Middle speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) (0dB = 20μPa)
OCTAVE BAND CENTER FREQUENCIES (Hz)

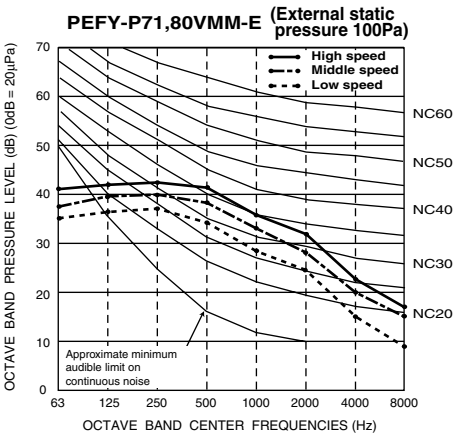

PEFY-P63VMM-E (External static pressure 30Pa)
High speed
Middle speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) (0dB = 20μPa)
OCTAVE BAND CENTER FREQUENCIES (Hz)

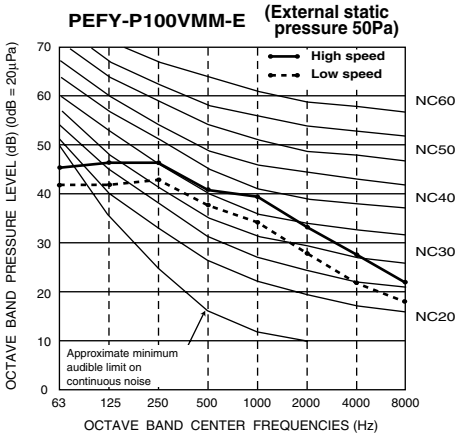

PEFY-P63VMM-E (External static pressure 50Pa)
High speed
Middle speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) (0dB = 20μPa)
OCTAVE BAND CENTER FREQUENCIES (Hz)

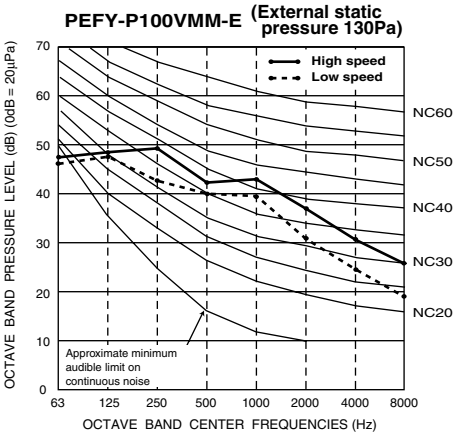

PEFY-P63VMM-E (External static pressure 100Pa)
High speed
Middle speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) (0dB = 20μPa)
OCTAVE BAND CENTER FREQUENCIES (Hz)

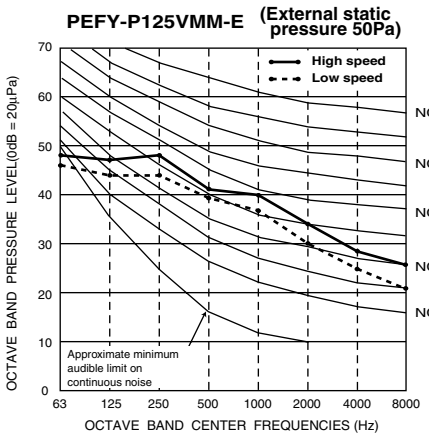

PEFY-P71,80VMM-E (External static pressure 30Pa)
High speed
Middle speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) (0dB = 20μPa)
OCTAVE BAND CENTER FREQUENCIES (Hz)

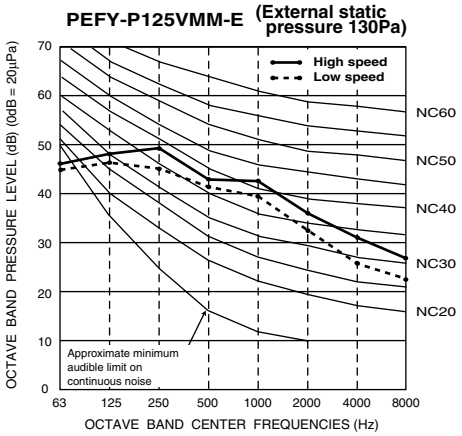

PEFY-P71,80VMM-E (External static pressure 50Pa)
High speed
Middle speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) (0dB = 20μPa)
OCTAVE BAND CENTER FREQUENCIES (Hz)

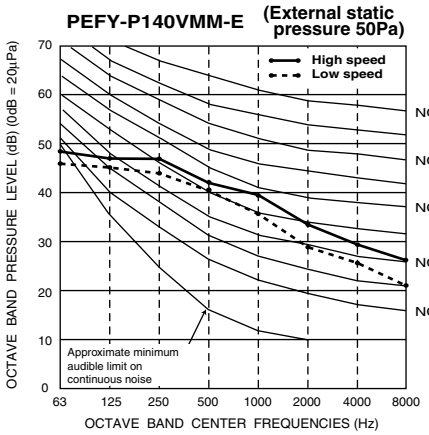

PEFY-P71,80VMM-E (External static pressure 100Pa)
High speed
Middle speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) (0dB = 20μPa)
OCTAVE BAND CENTER FREQUENCIES (Hz)

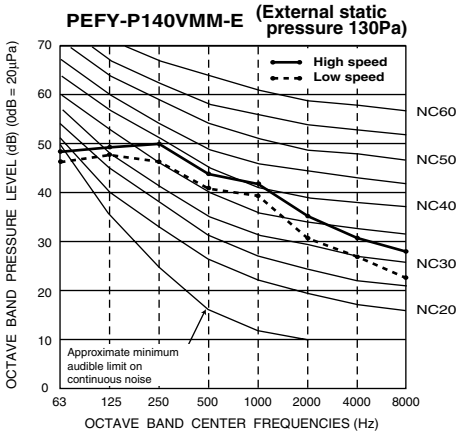

PEFY-P100VMM-E (External static pressure 50Pa)
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) (0dB = 20μPa)
OCTAVE BAND CENTER FREQUENCIES (Hz)


PEFY-P100VMM-E (External static pressure 130Pa)
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) (0dB = 20μPa)
OCTAVE BAND CENTER FREQUENCIES (Hz)

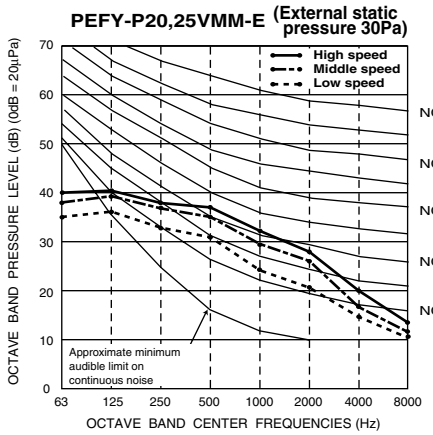


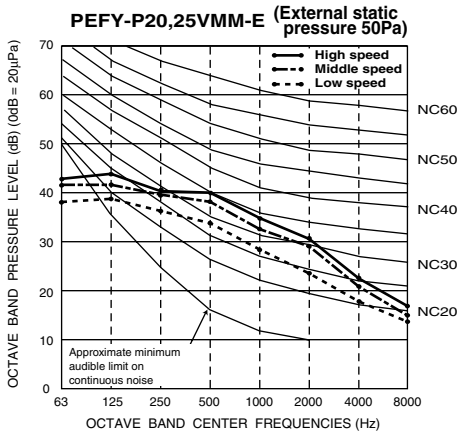


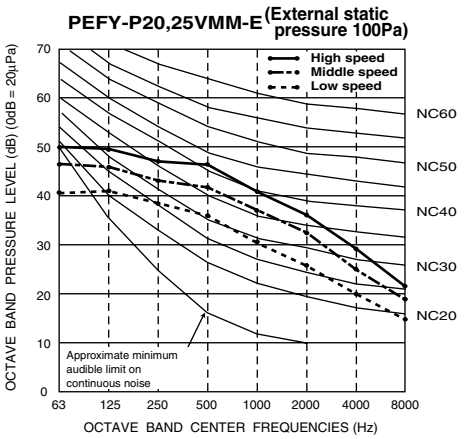


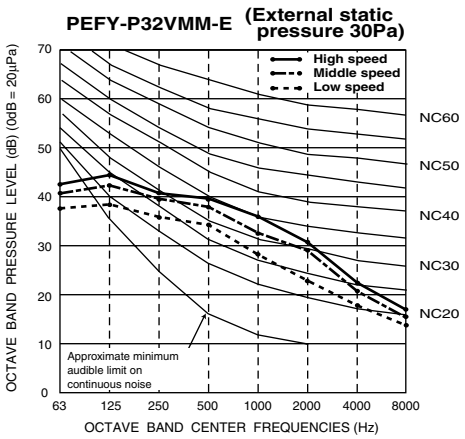


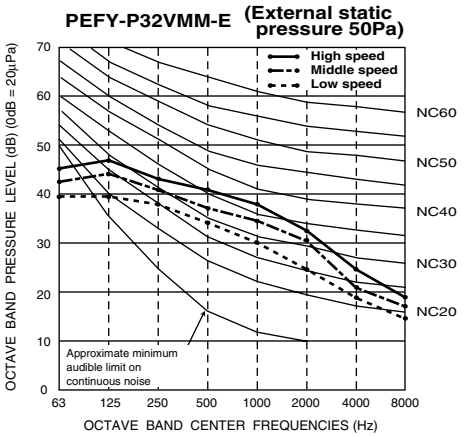
2) Bottom inlet

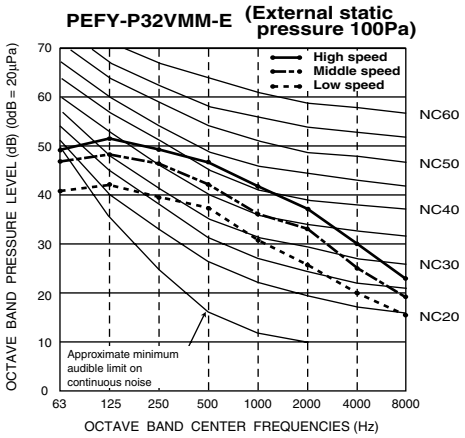


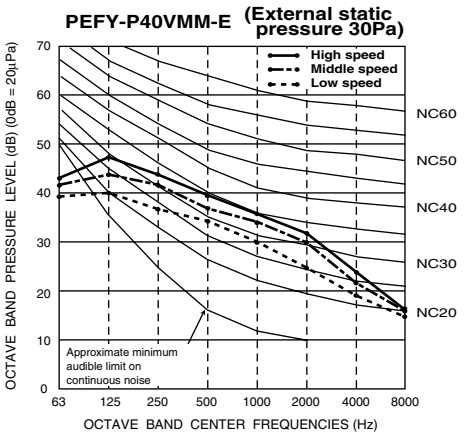


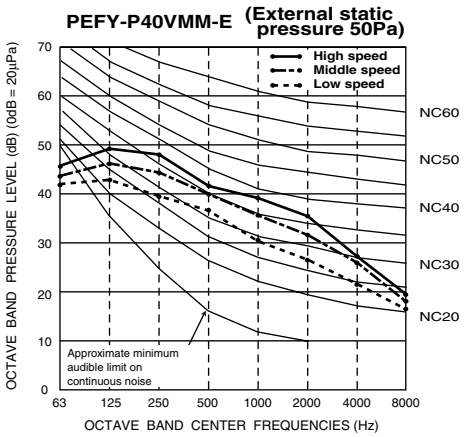

PEFY-P20,25VMM-E (External static pressure 100Pa)
High speed
Middle speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) (0dB = 20μPa)
OCTAVE BAND CENTER FREQUENCIES (Hz)

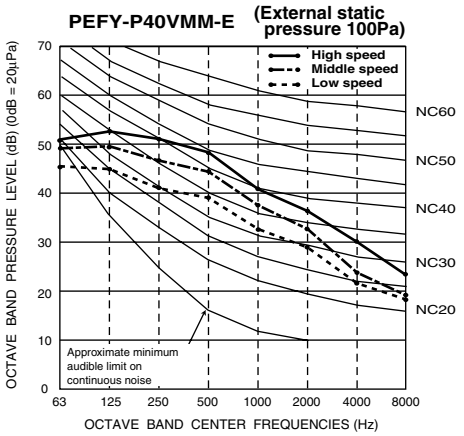

PEFY-P32VMM-E (External static pressure 30Pa)
High speed
Middle speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) (0dB = 20μPa)
OCTAVE BAND CENTER FREQUENCIES (Hz)

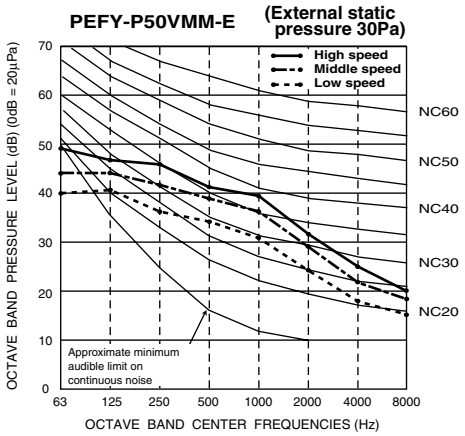

PEFY-P32VMM-E (External static pressure 50Pa)
High speed
Middle speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) (0dB = 20μPa)
OCTAVE BAND CENTER FREQUENCIES (Hz)


PEFY-P32VMM-E (External static pressure 100Pa)
High speed
Middle speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) (0dB = 20μPa)
OCTAVE BAND CENTER FREQUENCIES (Hz)

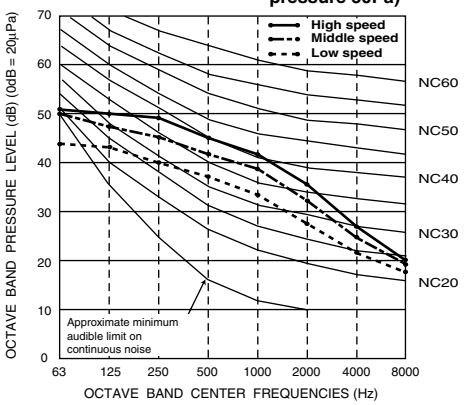

PEFY-P40VMM-E (External static pressure 30Pa)
High speed
Middle speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) (0dB = 20μPa)
OCTAVE BAND CENTER FREQUENCIES (Hz)


PEFY-P40VMM-E (External static pressure 50Pa)
High speed
Middle speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) (0dB = 20μPa)
OCTAVE BAND CENTER FREQUENCIES (Hz)

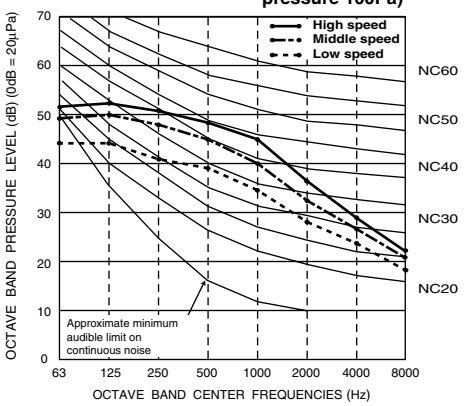

PEFY-P40VMM-E (External static pressure 100Pa)
High speed
Middle speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) (0dB = 20μPa)
OCTAVE BAND CENTER FREQUENCIES (Hz)


PEFY-P50VMM-E (External static pressure 30Pa)
High speed
Middle speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) (0dB = 20μPa)
OCTAVE BAND CENTER FREQUENCIES (Hz)

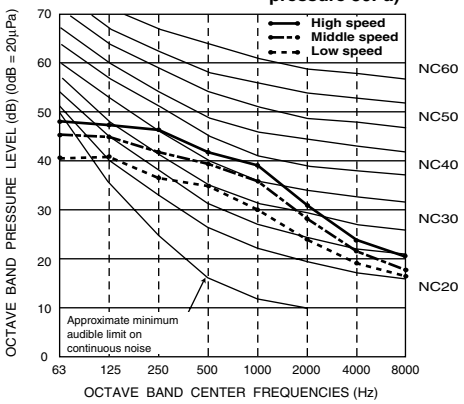
PEFY-P50VMM-E (External static pressure 50Pa)



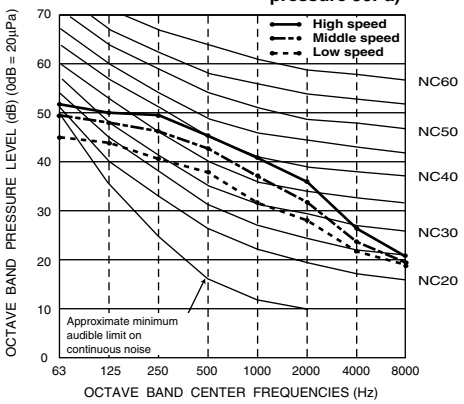
PEFY-P50VMM-E (External static pressure 100Pa)



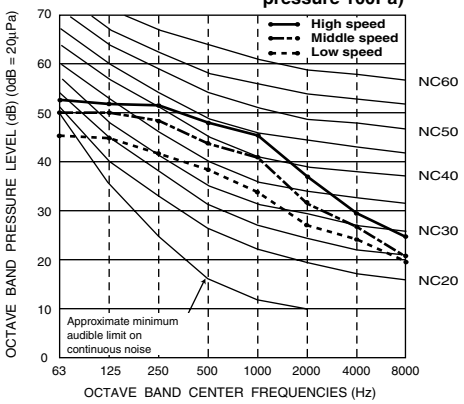
PEFY-P63VMM-E (External static pressure 30Pa)



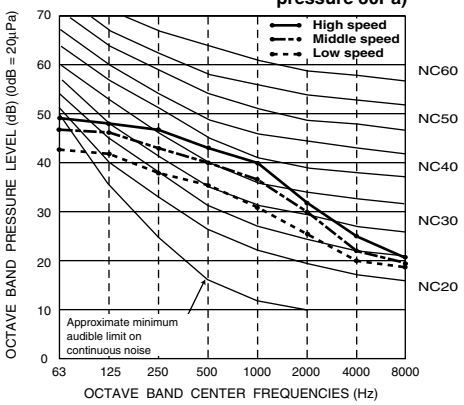
PEFY-P63VMM-E (External static pressure 50Pa)



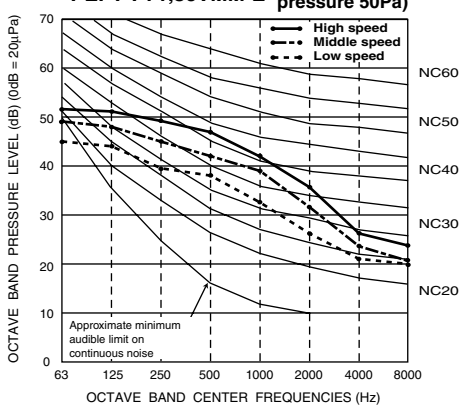
PEFY-P63VMM-E (External static pressure 100Pa)



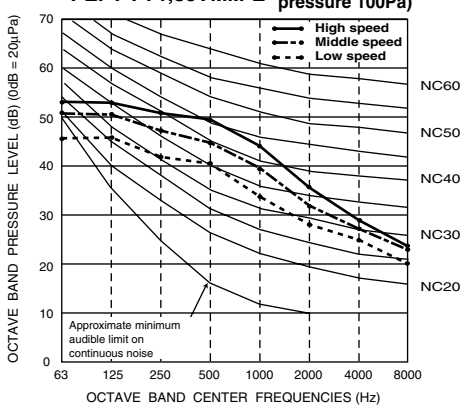
PEFY-P71,80VMM-E (External static pressure 30Pa)

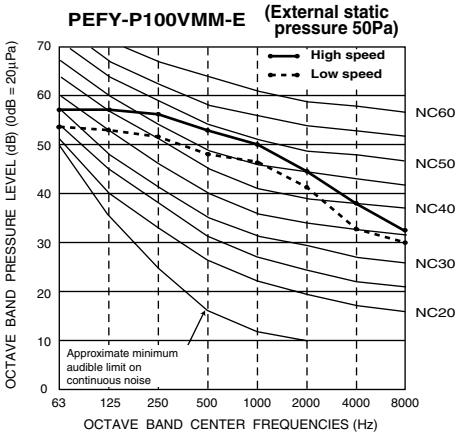


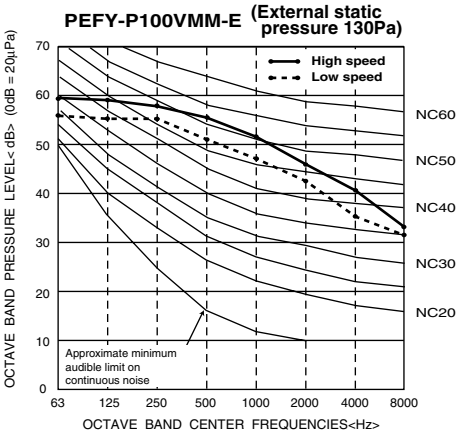
PEFY-P71,80VMM-E (External static pressure 50Pa)

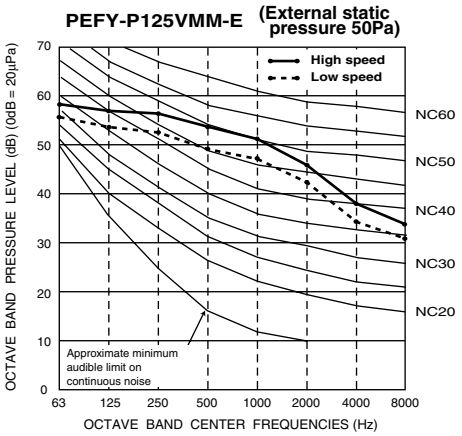


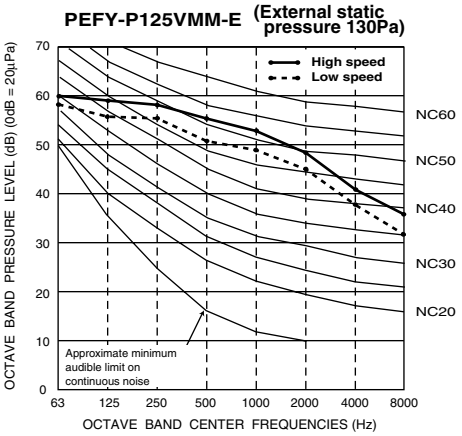
PEFY-P71,80VMM-E (External static pressure 100Pa)

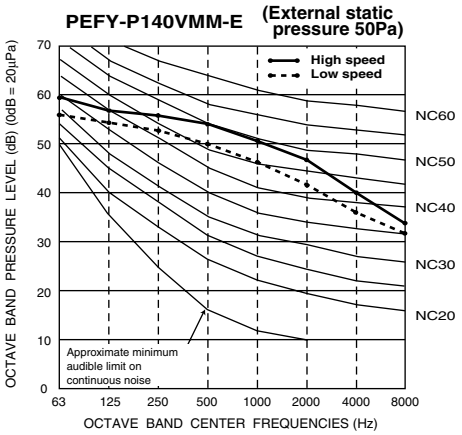


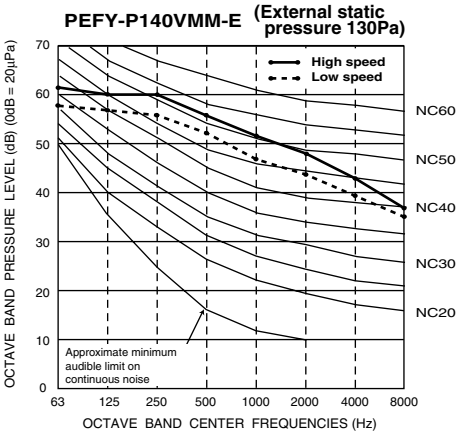

PEFY-P100VMM-E (External static pressure 50Pa)
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) (0dB = 20μPa)
OCTAVE BAND CENTER FREQUENCIES (Hz)


PEFY-P100VMM-E (External static pressure 130Pa)
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL< dB> (0dB = 20μPa)
OCTAVE BAND CENTER FREQUENCIES<Hz>


PEFY-P125VMM-E (External static pressure 50Pa)
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) (0dB = 20μPa)
OCTAVE BAND CENTER FREQUENCIES (Hz)

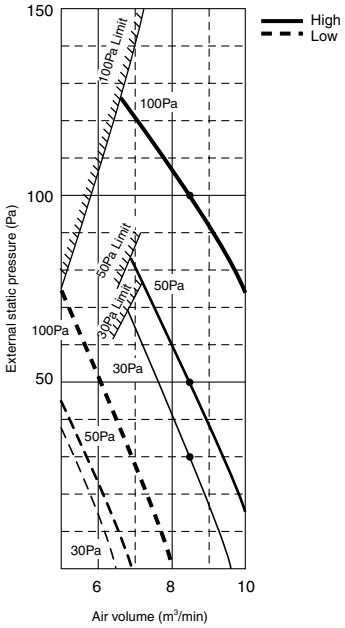

PEFY-P125VMM-E (External static pressure 130Pa)
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) (0dB = 20μPa)
OCTAVE BAND CENTER FREQUENCIES (Hz)


PEFY-P140VMM-E (External static pressure 50Pa)
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) (0dB = 20μPa)
OCTAVE BAND CENTER FREQUENCIES (Hz)

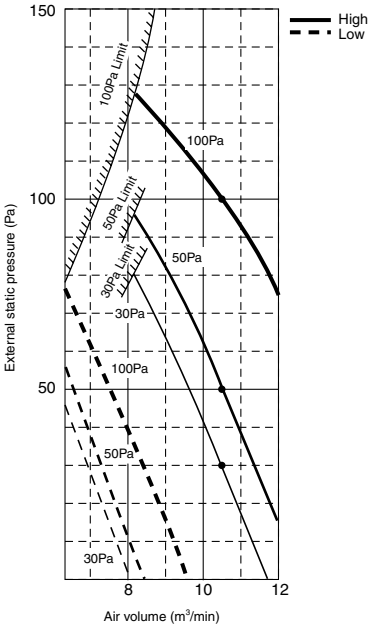

PEFY-P140VMM-E (External static pressure 130Pa)
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) (0dB = 20μPa)
OCTAVE BAND CENTER FREQUENCIES (Hz)

3.3 Fan characteristics curves(VMM-E)

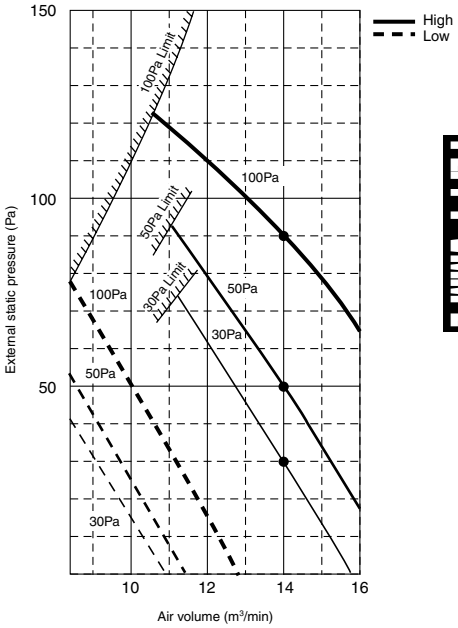
PEFY-P20,25VMM-E
External static pressure : 30,50,100Pa
Power source : 220-240(V)



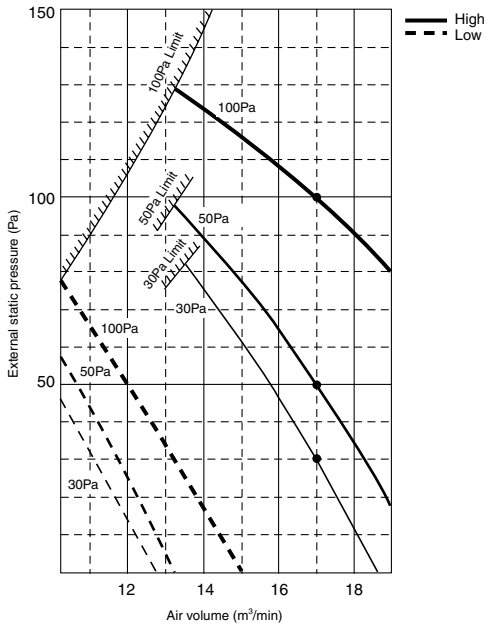
PEFY-P32VMM-E
External static pressure : 30,50,100Pa
Power source : 220-240(V)



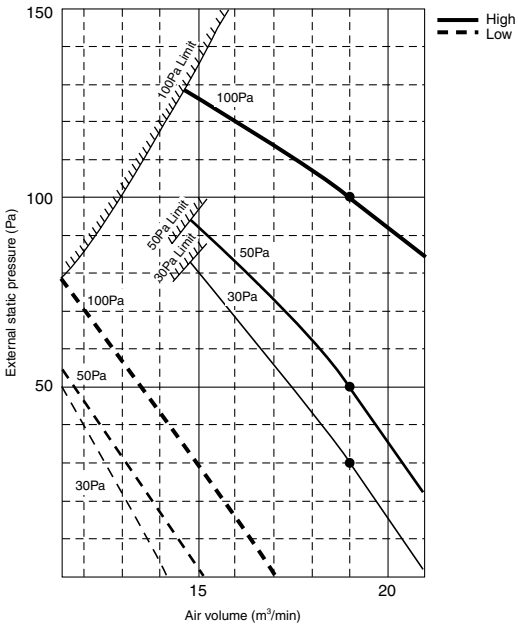
PEFY-P40VMM-E
External static pressure : 30,50,100Pa
Power source : 220-240(V)



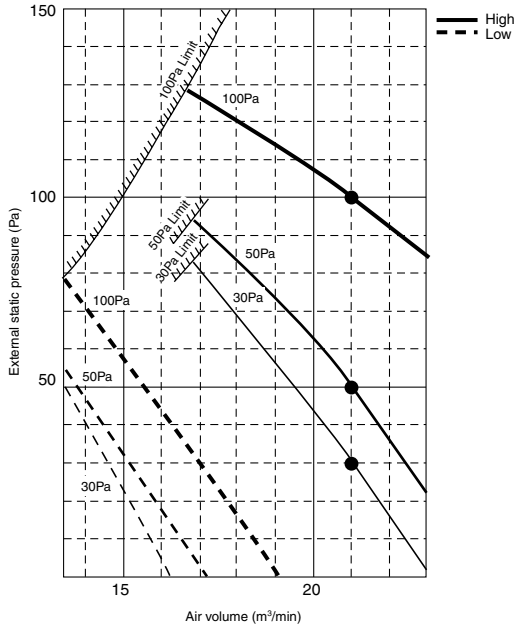
PEFY-P50VMM-E
External static pressure : 30,50,100Pa
Power source : 220-240(V)



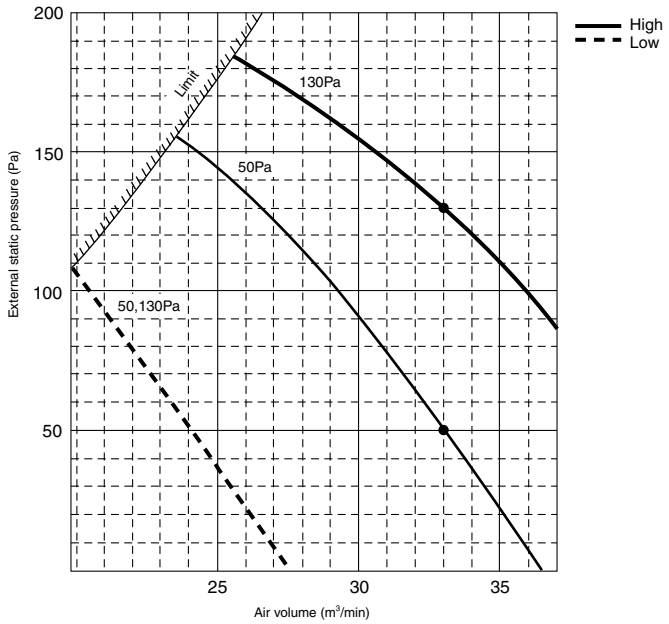
PEFY-P63VMM-E
External static pressure : 30,50,100Pa
Power source : 220-240(V)



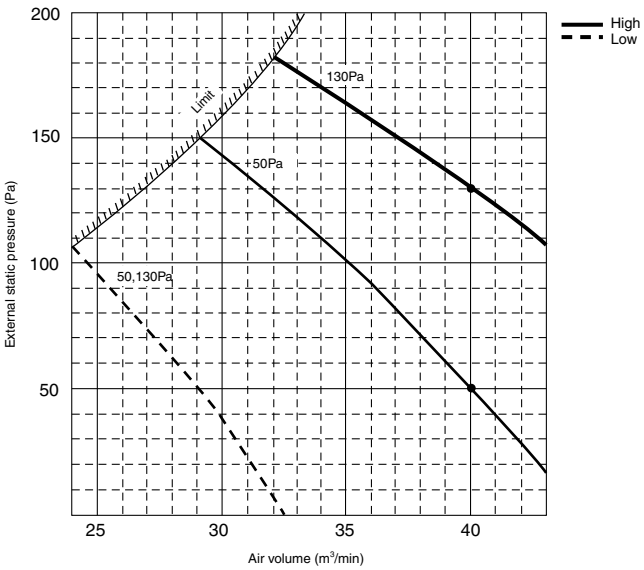
PEFY-P71,80VMM-E
External static pressure : 30,50,100Pa
Power source : 220·240(V)



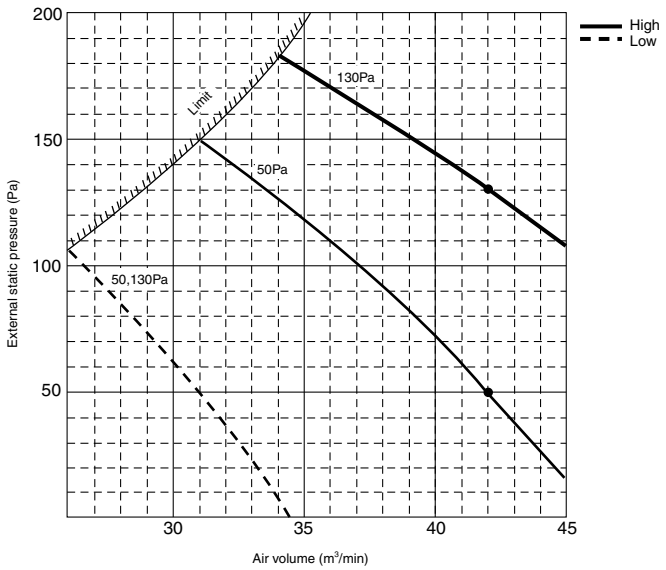
PEFY-P100VMM-E
External static pressure : 50,130Pa
Power source : 220·240(V)



PEFY-P125VMM-E
External static pressure : 50,130Pa
Power source : 220·240(V)



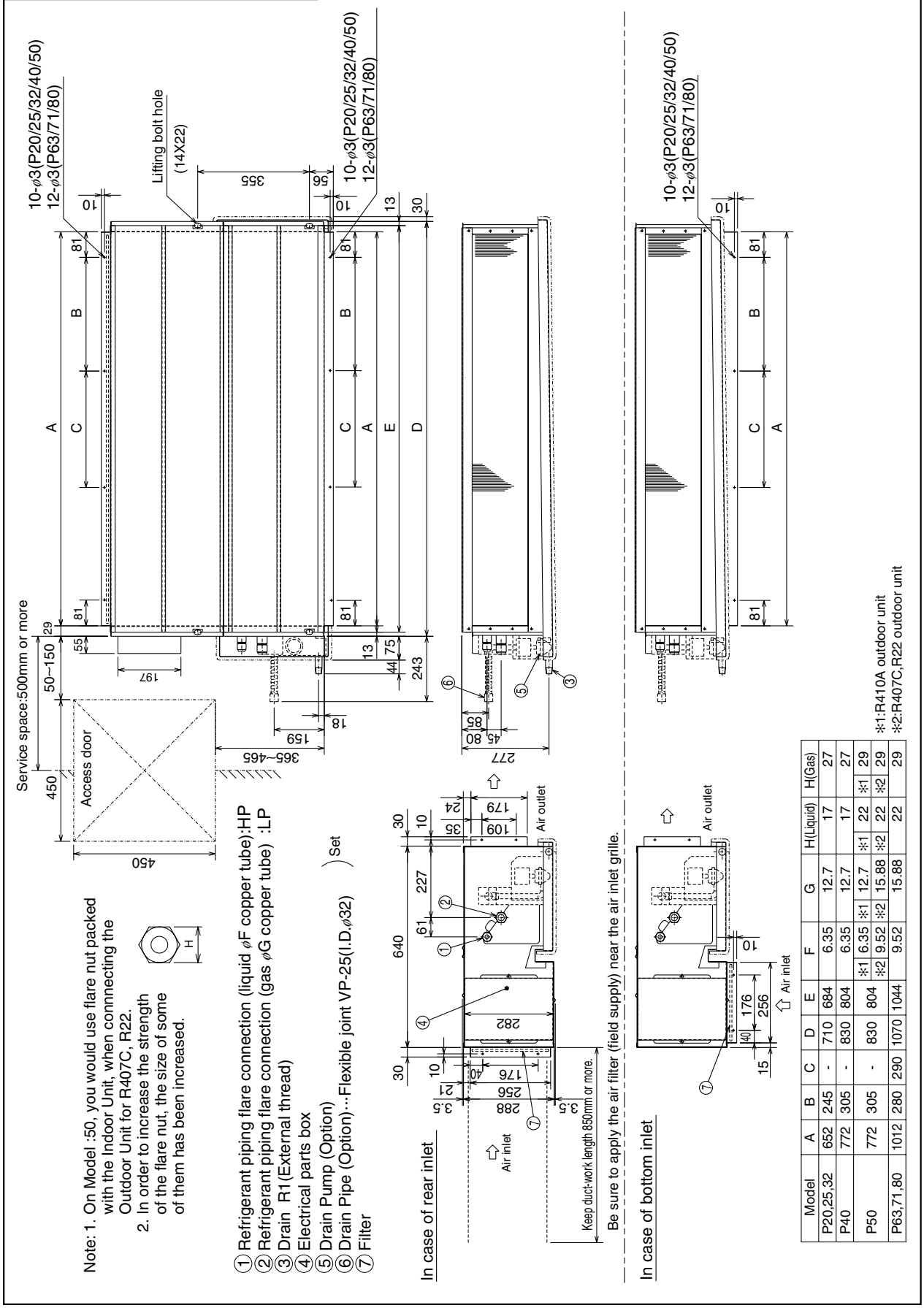
PEFY-P140VMM-E
External static pressure : 50,130Pa
Power source : 220·240(V)



4. External Dimensions

PEFY-P20,25,32,40,50,63,71,80VMM-E

Unit : mm



Note: 1. On Model :50, you would use flare nut packed with the Indoor Unit, when connecting the Outdoor Unit for R407C, R22.
2. In order to increase the strength of the flare nut, the size of some of them has been increased.

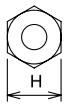
① Refrigerant piping flare connection (liquid φF copper tube):HP
② Refrigerant piping flare connection (gas φG copper tube) :LP
③ Drain R1(External thread)
④ Electrical parts box
⑤ Drain Pump (Option)
⑥ Drain Pipe (Option)...Flexible joint VP-25(I.D.φ32) Set
⑦ Filter

Model	A	B	C	D	E	F	G	H(Liquid)	H(Gas)
P20,25,32	652	245	-	710	684	6.35	12.7	17	27
P40	772	305	-	830	804	6.35	12.7	17	27
P50	772	305	-	830	804	※1 6.35 ※2 9.52	※1 12.7 ※2 15.88	※1 22 ※2 22	※1 29 ※2 29
P63,71,80	1012	280	290	1070	1044	9.52	15.88	22	29

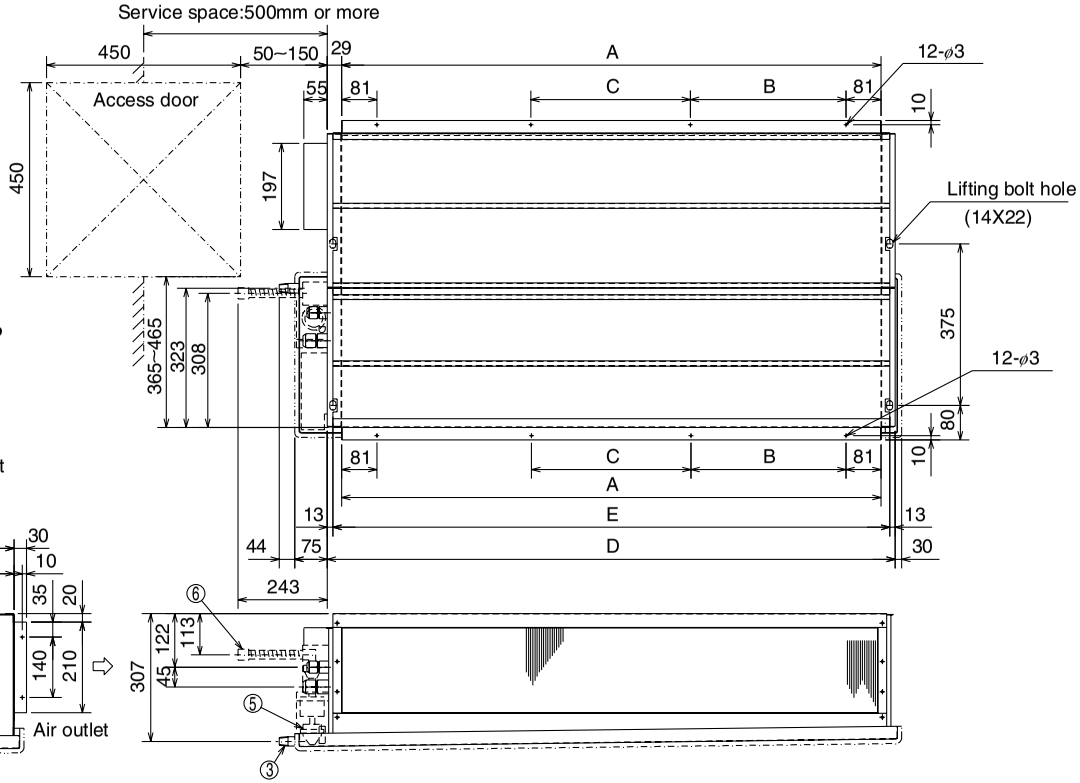
※1:R410A outdoor unit
※2:R407C,R22 outdoor unit

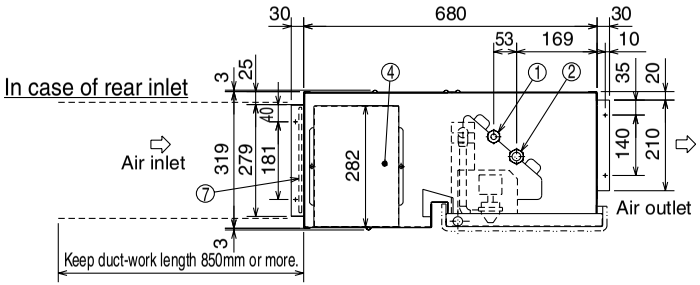
PEFY-P100,125,140VMM-E

Note: 1. On this model, you would use flare nut packed with the Indoor Unit, when connnecting the Outdoor Unit for R407C, R22.
2. In order to increase the strength of the flare nut, the size of some of them has been increased.

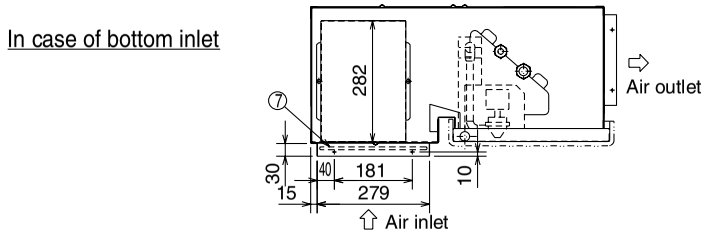


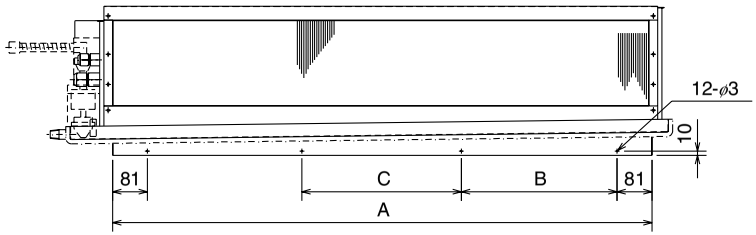
① Refrigerant piping flare connection (liquid ϕ9.52 copper tube):HP
② Refrigerant piping flare connection (gas ϕ15.88<R410A outdoor unit> copper tube):LP
ϕ19.05<R407C,R22 outdoor unit>
③ Drain 25A (male screw)
④ Electrical parts box
⑤ Drain Pump (Option)
⑥ Drain Pipe (Option)···Flexible joint VP25(I.D. ϕ32) } Set
⑦ Filter





Be sure to apply the air filter (field supply) near the air inlet grille.



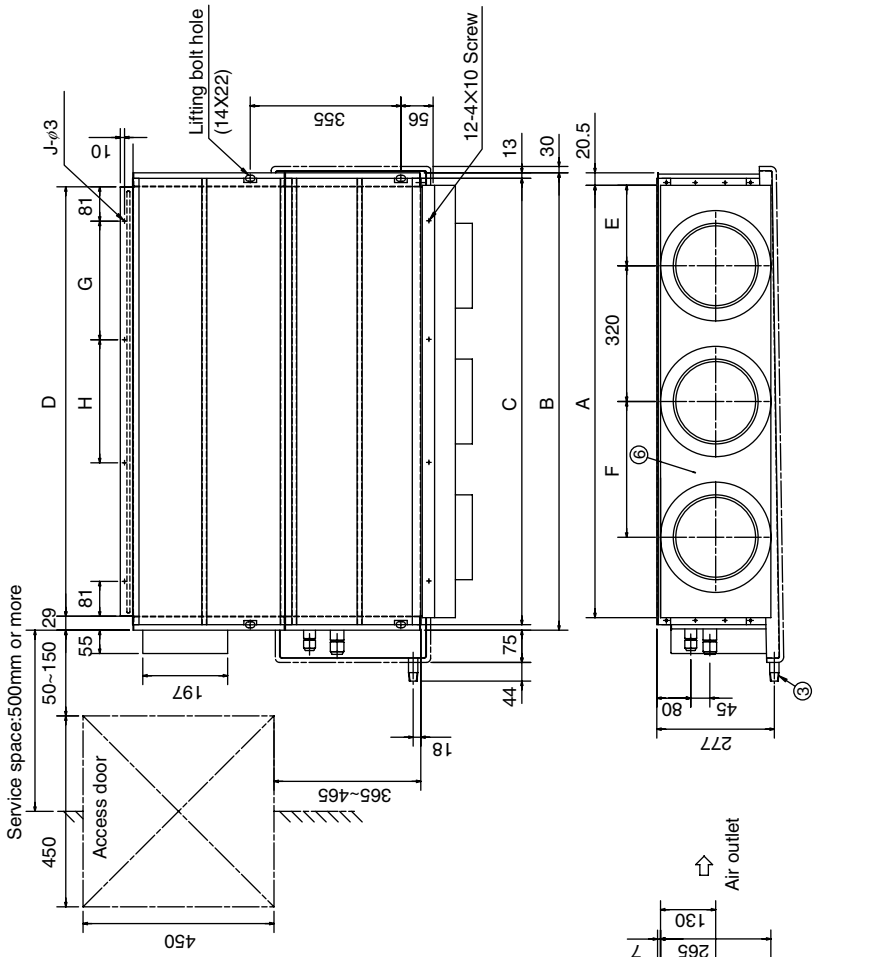


Model	A	B	C	D	E	F(Liquid)	F(Gas)
P100·125	1252	360	370	1310	1284	22	36
P140	1552	460	470	1610	1584	22	36

Unit : mm

PEFY-P20,25,32,40,50,61,71,80VMM-E
with circular duct flange

Unit : mm



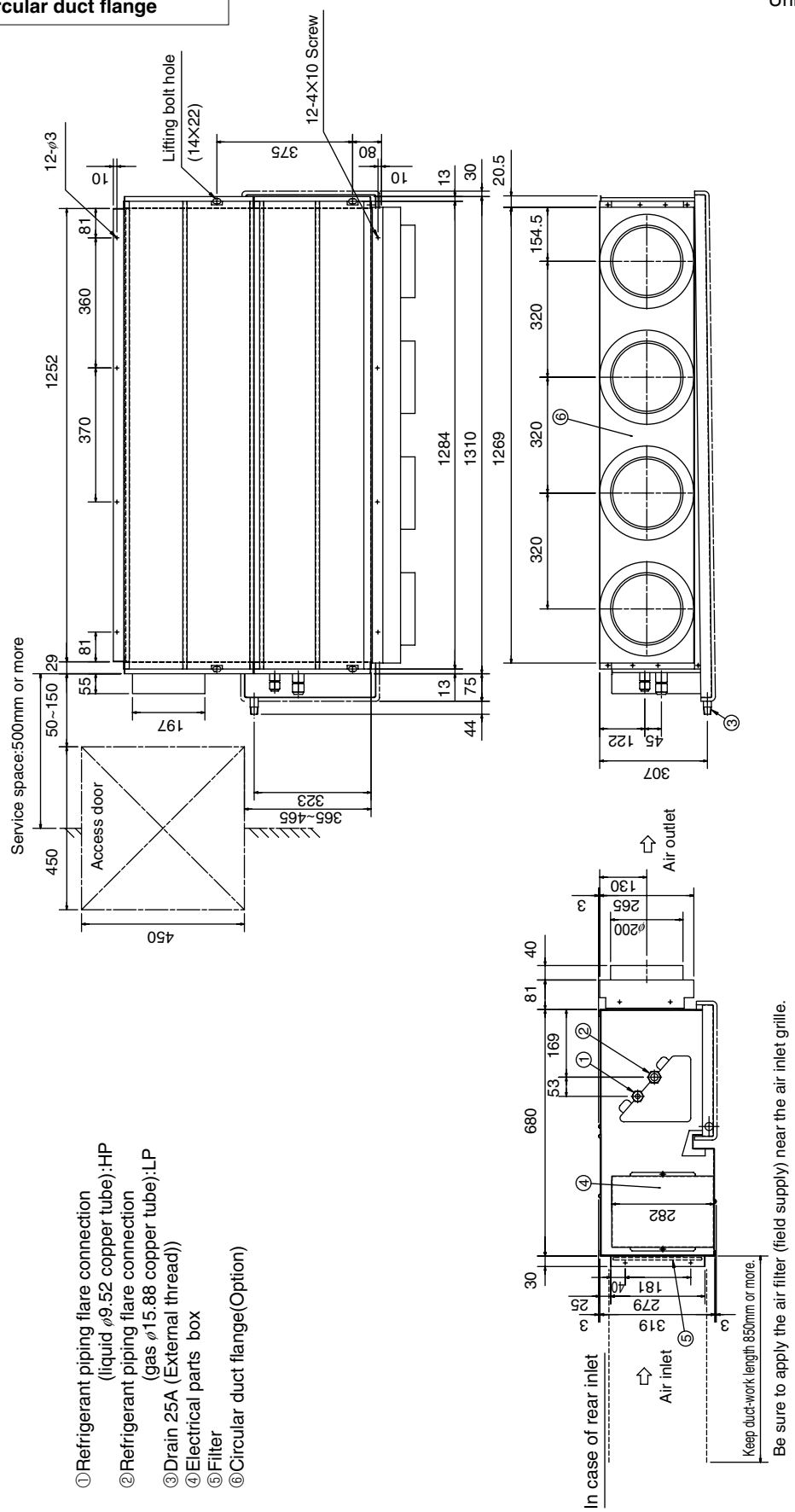
Model	A	B	C	D	E	F	G	H	J
P20,25,32	669	710	684	652	174.5	—	245	—	10
P40,50	789	830	804	772	234.5	—	305	—	10
P63,71,80	1029	1070	1044	1012	194.5	320	280	290	12

①Refrigerant piping flare connection (liquid ø K copper tube):HP
②Refrigerant piping flare connection (gas ø L copper tube):LP
③Drain R1(External thread)
④Electrical parts box
⑤Filter
⑥Circular duct flange(Option)

Model	K	L
P20,25,32	6.35	12.7
P40,50	6.35	12.7
P63,71,80	9.52	15.88

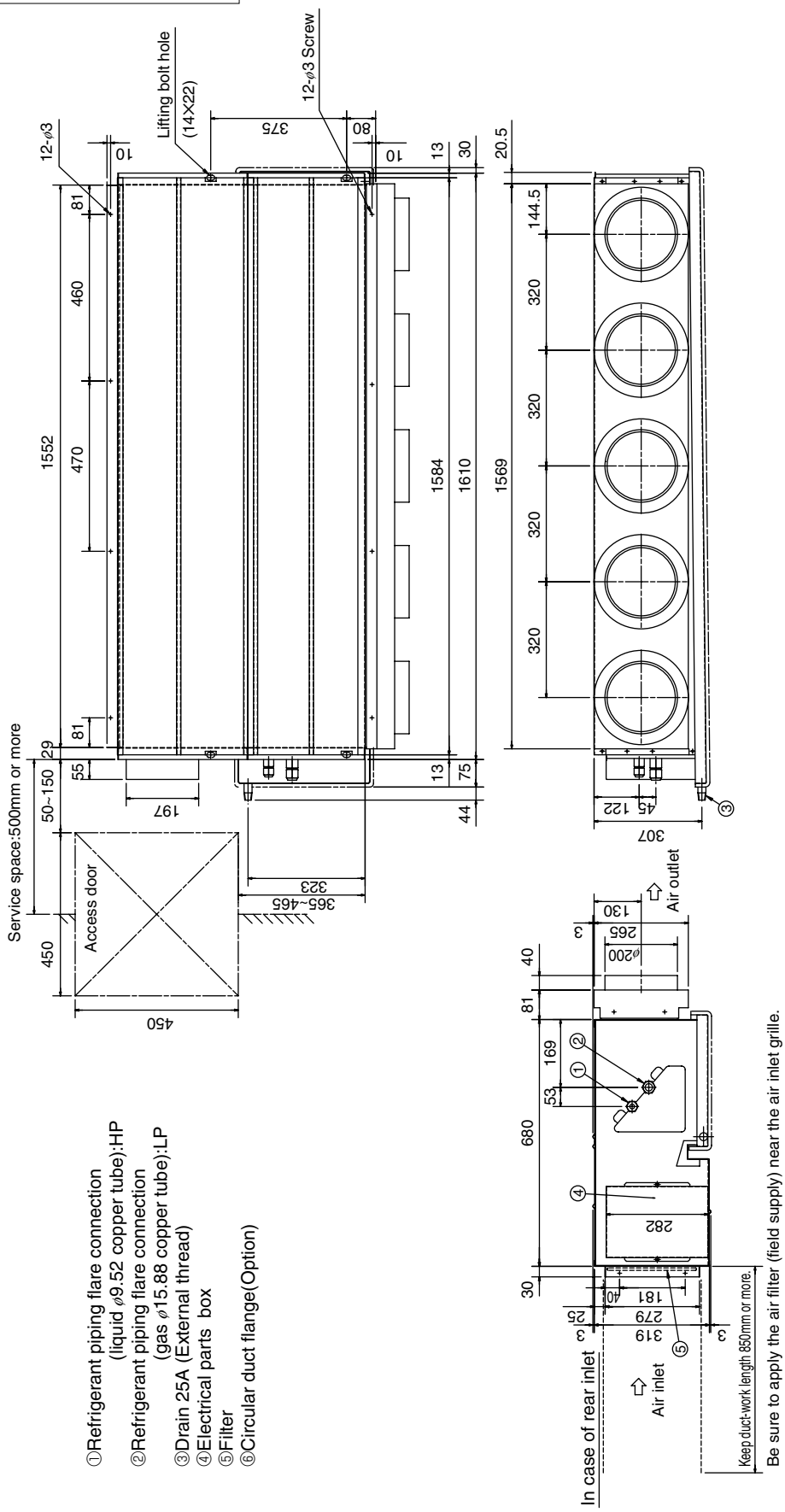
PEFY-P100,125VMM-E
with circular duct flange

Unit : mm



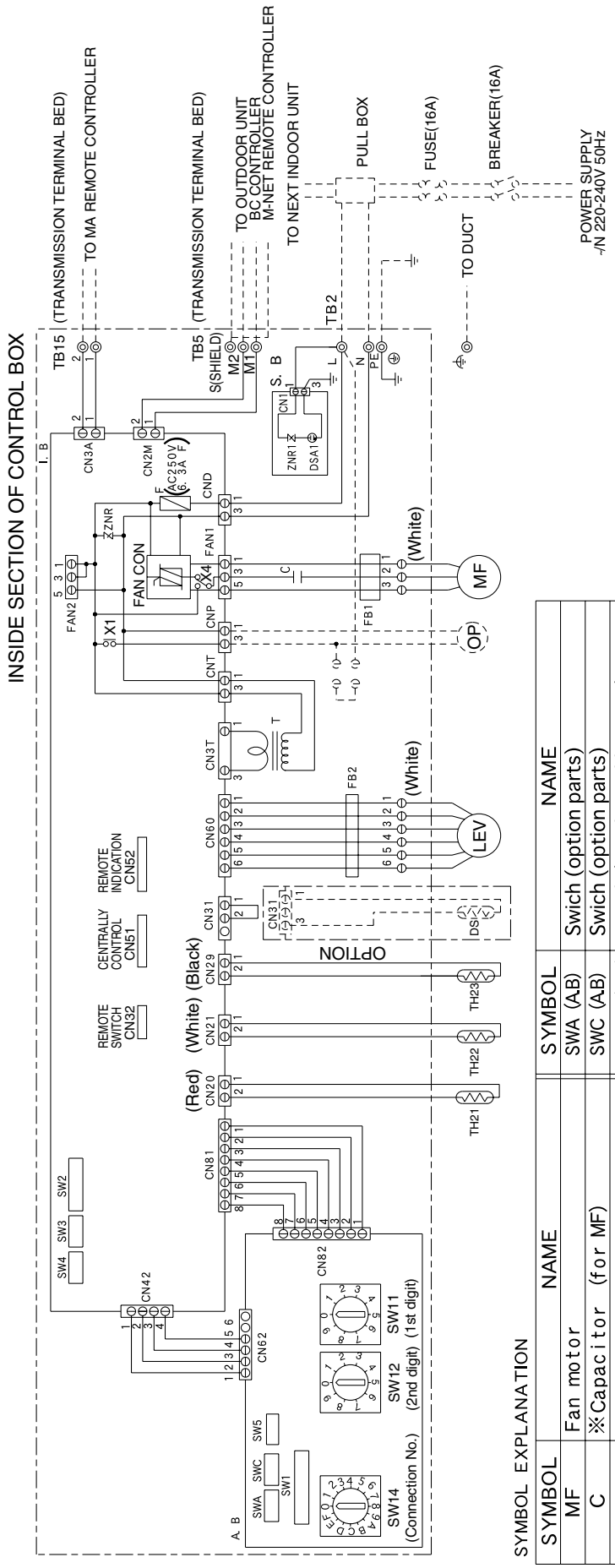
PEFY-P140VMM-E
with circular duct flange

Unit : mm



5. Electrical Wiring Diagrams

PEFY-P20,25,32,40,50,63,71,80VMM-E



NOTE: 1. TB2, TB5 shown in dotted line are field work.
2. Mark ◎ indicates terminal bed, ⊖connector, ⊟ board insertion connector or fastening connector of control board.

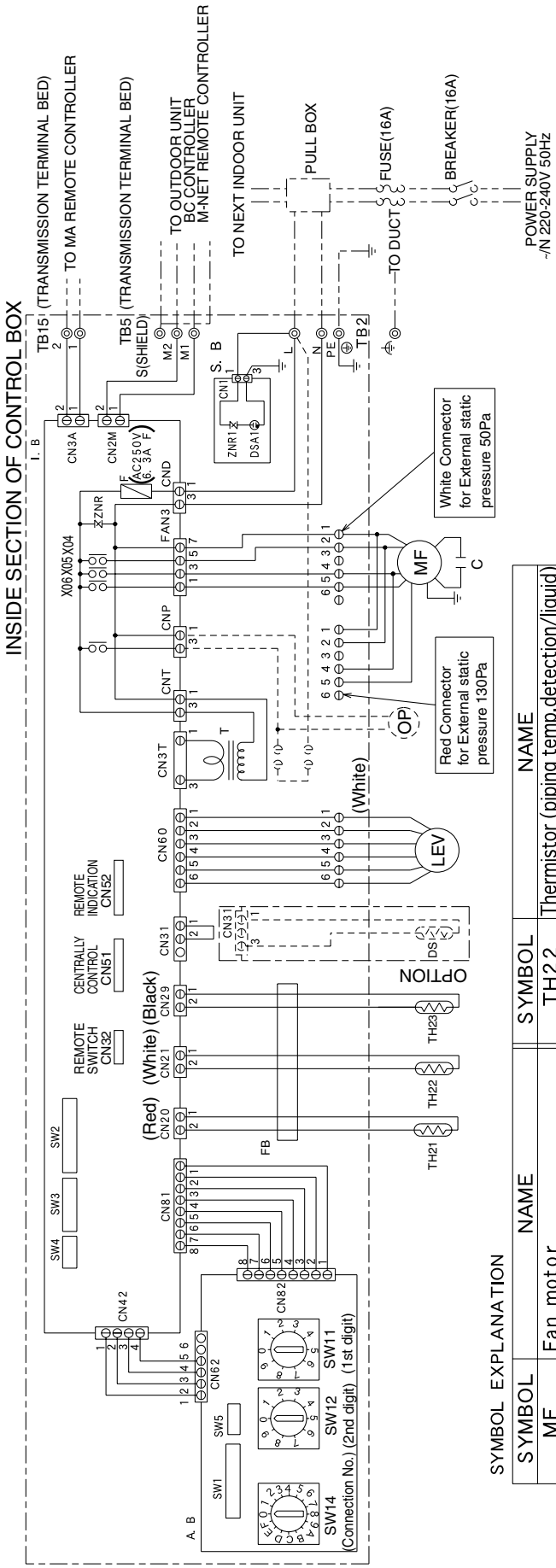
※ Capacitor
MODELS 20/25/32 6μF
MODELS 40/50 6μF
MODELS 63/71/80 6μF

SYMBOL EXPLANATION

SYMBOL	NAME
MF	Fan motor
C	※Capacitor (for MF)
I.B	Indoor controller board
A.B	Address board
TB2	Power source terminal bed
TB5	Transmission terminal bed
TB15	Transmission terminal bed
F	Fuse AC250V 6.3AF
T	Transformer
LEV	Electronic linear expan. valve
TH21	Thermistor (inlet temp.detection)
TH22	Thermistor (piping temp.detection/liquid)
TH23	Thermistor (piping temp.detection/gas)

SYMBOL	NAME
SWA (A.B)	Swich (option parts)
SWC (A.B)	Swich (option parts)
SW11 (A.B)	Switch (1st digit address set)
SW12 (A.B)	Switch (2nd digit address set)
SW14 (A.B)	Switch (connection No.set)
SW1 (A.B)	Switch(for mode selection)
SW2 (I.B)	Switch(for capacity code)
SW3 (I.B)	Switch(for mode selection)
SW4 (I.B)	Switch(for model selection)
SW5 (A.B)	Switch(for voltage selection)
FB1,2	Ferrite core
S.B	Surge absorber board
DP	Drainpump
DS	Drainsensor

PEFY-P100,125,140VMM-E



NOTE:1.TB2,TB5 shown in dotted line are field work.
2.Mark ◎ indicates terminal bed, ⊖connector, ⊟ board insertion connector or fastening connector of control board.

※Capacitor
MODELS 100/125/140 8μF

SYMBOL EXPLANATION

SYMBOL	NAME	SYMBOL	NAME
MF	Fan motor	TH22	Thermistor (piping temp.detection/liquid)
C	Capacitor (for MF)	TH23	Thermistor (piping temp.detection/gas)
I.B	Indoor controller board	SW11 (A.B)	Switch (1st digit address set)
A.B	Address board	SW12 (A.B)	Switch (2nd digit address set)
TB2	Power source terminal bed	SW14 (A.B)	Switch (connection No.set)
TB15	Transmission terminal bed	SW1 (A.B)	Switch(for mode selection)
TB5	Transmission terminal bed	SW2 (I.B)	Switch(for capacity code)
F	Fuse AC250V 6. 3A F	SW3 (I.B)	Switch(for mode selection)
T	Transformer	SW4 (I.B)	Switch(for model selection)
LEV	Electronic linear expan. valve	SW5 (A.B)	Switch(for voltage selection)
S.B	Surge absorber board	X04~06	Aux relay
FB	Ferrite core	DP	Drainpump
TH21	Thermistor (inlet temp.detection)	DS	Drainsensor

PEFY-P-VMM-E

6. Options

Description	Model	Applicable capacity
Circular duct flange	PAC-KE32EDF-F	P20/P25/P32
	PAC-KE50EDF-F	P40/P50
	PAC-KE80EDF-F	P63/P71/P80
	PAC-KE125EDF-F	P100/P125
	PAC-KE140EDF-F	P140
Drain water lift-up kit	PAC-KE03DM-F	P20/P25/P32/P40/P50/P63/P71 P80/P100/P125/P140

Ceiling concealed PEFY-P-VMH-E-F

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Model Name	20	25	32	40	50	63	71	80	100	125	140	200	250
PEFY-P-VMH-E-F								●			●		

1. Specifications

				PEFY-P80VMH-E-F	PEFY-P140VMH-E-F
Power source				~ 220-240V 50Hz / ~ 208-230V 60Hz	
Cooling capacity	※1		kW	9.0	16.0
	※1		BTU/h	30,700	54,580
Heating capacity	※1		kW	8.5	15.1
	※1		BTU/h	29,000	51,520
Power consumption (50/60Hz)	Cooling		kW	0.16/0.21	0.29/0.33
	Heating		kW	0.16/0.21	0.29/0.33
Current	Cooling		A	0.67/0.91	1.24/1.48
	Heating		A	0.67/0.91	1.24/1.48
External finish				Galvanizing	
Dimension	Height		mm	380	
	Width		mm	1000	1200
	Depth		mm	900	
Net weight			kg	50	70
Heat exchanger				Cross fin (Aluminum plate fin and copper tube)	
Fan	Type			Sirocco fan×1	Sirocco fan×2
	Airflow rate		m^3/min	9.0	18.0
	External static pressure (Low/Mid/High)	208V	Pa	35/85/170	35/85/170
		220V	Pa	40/115/190	50/115/190
		230V	Pa	50/130/210	60/130/220
		240V	Pa	80/170/220	100/170/240
Motor	Type			Single phase induction motor	
	Output		kW	0.09	0.14
Air filter (option)				Synthetic fiber unwoven cloth filter(long life)	
Refrigerant pipe dimension	Gas (Flare)		mm	ø 15.88	ø 15.88 (R410A) ø 19.05 (R22,R407C)
	Liquid (Flare)		mm	ø 9.52	
Drain pipe dimension				32 (1-1/4 inch)	
Noise level ※2		208, 220V	dB(A)	27/38/43	28/38/43
		230, 240V	dB(A)	33/43/45	34/43/45

Note: ※1 Cooling/Heating capacity indicates the maximum value at operation under the following condition.
Cooling : Indoor 33˚CDB/28˚CWB,Outdoor 33˚CDB
Heating : Indoor 0˚CDB/-2.9˚CWB,Outdoor 0˚CDB/-2.9˚CWB
※2 It is measured in anechoic room.

a). The cooling and heating capacities are the maximum capacities that were obtained by operating in the above air conditions and with a refrigerant pipe of about 7.5m.
b). The actual capacity characteristics vary with the combination of indoor and outdoor units. See the technical information.
c). The operating noise is the data that was obtained by measuring it 1.5m from the bottom of the unit in an anechoic room. (Noise meter A-scale value)
d). The figure of Electrical characteristic indicates at 220V and at middle external static pressure.
e). When the 100% fresh air indoor units are connected, the maximum connectable indoor units to 1 outdoor unit are as follows.

Heat pump models	Cooling only
110%(100% in case of heating below-5˚C)	110%

f). Operational temp range is cooling : from 21˚CDB/15.5˚C WB to 43˚CDB/35˚CWB.
Heating : from -10˚CDB to 20˚CDB
※Thermo off (Fan) operation automatically starts either when temperature is lower than 21˚CDB in cooling mode or when the temperature exceeds 20˚CDB in heating mode.
g). As the room temp is sensed by the thermo in the remote controller or the one in the room, be sure to use ether remote controller or room thermo.
h). Dry mode is Not available. Fan mode operation during the thermo off in Cooling/Heating mode.
i). The fan would temporarily stops either with R2/WR2 system or in defrost.
j). In any case, the air flow rate should be kept lower than 110% of the above chart.Please see " Fan curves " for the details.
k). When this unit is used as sole A/C system, be careful about the dew in air outlet grilles in cooling mode.
l). Un-conditioned outdoor air such as humid air or cold air blows to the indoor during thermo off operation.
Please be careful when positioning indoor unit air outlet grilles, ie take the necessary precautions for cold air, and also insulate rooms for dew condensation prevention as required.
m). Air filter must be installed in the air intake side.The filter should be attached where easy maintenance is possible in case of usage of field supply filters.
n). Long life filter cannot be used with Hi-efficiency filter together.

2. Capacity Tables

2.1 Cooling capacity Outdoor unit

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

PEFY-P80VMH-E-F

Outdoor air temp.	˚CWB																	
˚CDB	15		17		20		23		26		28		30		32		35	
	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
21	4.4	3.0	5.3	2.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	4.4	3.4	5.3	3.3	6.5	3.0	-	-	-	-	-	-	-	-	-	-	-	-
25	4.4	3.8	5.2	3.7	6.4	3.4	-	-	-	-	-	-	-	-	-	-	-	-
27	-	-	5.2	4.0	6.4	3.7	7.5	3.3	-	-	-	-	-	-	-	-	-	-
29	-	-	-	-	6.4	4.1	7.5	3.7	8.5	3.2	-	-	-	-	-	-	-	-
31	-	-	-	-	6.3	4.5	7.4	4.0	8.4	3.5	9.1	3.1	-	-	-	-	-	-
33	-	-	-	-	-	-	7.3	4.4	8.3	3.8	9.0	3.5	9.6	3.0	-	-	-	-
35	-	-	-	-	-	-	7.2	4.7	8.2	4.2	8.9	3.8	9.5	3.3	-	-	-	-
37	-	-	-	-	-	-	-	-	8.1	4.5	8.8	4.1	9.4	3.7	9.9	3.2	-	-
40	-	-	-	-	-	-	-	-	8.0	5.0	8.6	4.6	9.1	4.1	9.7	3.7	10.5	2.9

PEFY-P140VMH-E-F

Outdoor air temp.	˚CWB																	
˚CDB	15		17		20		23		26		28		30		32		35	
	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
21	7.8	5.6	9.4	5.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	7.8	6.3	9.3	6.0	11.5	5.4	-	-	-	-	-	-	-	-	-	-	-	-
25	7.8	7.1	9.3	6.8	11.5	6.1	-	-	-	-	-	-	-	-	-	-	-	-
27	-	-	9.3	7.5	11.4	6.8	13.4	6.0	-	-	-	-	-	-	-	-	-	-
29	-	-	-	-	11.3	7.5	13.3	6.7	15.2	5.6	-	-	-	-	-	-	-	-
31	-	-	-	-	11.2	8.2	13.2	7.3	15.0	6.3	16.2	5.5	-	-	-	-	-	-
33	-	-	-	-	-	-	13.0	8.0	14.8	7.0	16.0	6.2	17.1	5.3	-	-	-	-
35	-	-	-	-	-	-	12.9	8.7	14.6	7.6	15.8	6.8	16.9	6.0	-	-	-	-
37	-	-	-	-	-	-	-	-	14.5	8.3	15.6	7.5	16.6	6.6	17.7	5.7	-	-
40	-	-	-	-	-	-	-	-	14.2	9.3	15.2	8.5	16.3	7.6	17.3	6.7	18.7	5.3

There are times when the cooling capacity is lowered to protect the compressor in cases where the external temperature exceeds 40˚C

2.2 Cooling Outlet air temp.

PEFY-P80VMH-E-F

Outdoor air temp.	˚CWB																	
˚CDB	15		17		20		23		26		28		30		32		35	
	˚CDB	˚CWB	˚CDB	˚CWB	˚CDB	˚CWB	˚CDB	˚CWB	˚CDB	˚CWB	˚CDB	˚CWB	˚CDB	˚CWB	˚CDB	˚CWB	˚CDB	˚CWB
21	5.1	5.0	5.6	5.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	5.1	5.0	5.7	5.6	7.0	7.0	-	-	-	-	-	-	-	-	-	-	-	-
25	5.1	5.0	5.7	5.7	7.1	7.1	-	-	-	-	-	-	-	-	-	-	-	-
27	-	-	5.8	5.7	7.2	7.2	9.2	9.2	-	-	-	-	-	-	-	-	-	-
29	-	-	-	-	7.4	7.3	9.4	9.4	12.0	12.0	-	-	-	-	-	-	-	-
31	-	-	-	-	7.5	7.4	9.6	9.6	12.2	12.2	14.2	14.2	-	-	-	-	-	-
33	-	-	-	-	-	-	9.8	9.7	12.4	12.4	14.4	14.4	16.6	16.6	-	-	-	-
35	-	-	-	-	-	-	10.0	9.9	12.6	12.6	14.6	14.6	16.8	16.8	-	-	-	-
37	-	-	-	-	-	-	-	-	12.8	12.8	14.9	14.8	17.1	17.1	19.5	19.5	-	-
40	-	-	-	-	-	-	-	-	13.2	13.1	15.3	15.2	17.5	17.4	19.9	19.8	23.7	23.7

PEFY-P140VMH-E-F

Outdoor air temp.	˚CWB																	
˚CDB	15		17		20		23		26		28		30		32		35	
	˚CDB	˚CWB	˚CDB	˚CWB	˚CDB	˚CWB	˚CDB	˚CWB	˚CDB	˚CWB	˚CDB	˚CWB	˚CDB	˚CWB	˚CDB	˚CWB	˚CDB	˚CWB
21	6.3	6.3	7.1	7.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	6.3	6.3	7.1	7.1	8.7	8.7	-	-	-	-	-	-	-	-	-	-	-	-
25	6.4	6.3	7.2	7.1	8.8	8.8	-	-	-	-	-	-	-	-	-	-	-	-
27	-	-	7.2	7.1	8.9	8.9	11.1	11.1	-	-	-	-	-	-	-	-	-	-
29	-	-	-	-	9.0	9.0	11.2	11.2	13.9	13.9	-	-	-	-	-	-	-	-
31	-	-	-	-	9.1	9.0	11.4	11.3	14.0	14.0	16.1	16.1	-	-	-	-	-	-
33	-	-	-	-	-	-	11.5	11.5	14.2	14.2	16.2	16.2	18.4	18.4	-	-	-	-
35	-	-	-	-	-	-	11.7	11.6	14.4	14.4	16.4	16.4	18.6	18.6	-	-	-	-
37	-	-	-	-	-	-	-	-	14.6	14.5	16.7	16.6	18.8	18.8	21.2	21.1	-	-
40	-	-	-	-	-	-	-	-	14.9	14.8	17.0	16.9	19.2	19.1	21.5	21.5	25.2	25.2

2.3 Heating capacity Outdoor unit

PEFY-P80VMH-E-F

SHC:Sensible Heat Capacity(kW)

Outdoor air temp.	˚CWB								
˚CDB	-9	-5	-2.9	0	2	4	6	10	14
	SHC	SHC	SHC	SHC	SHC	SHC	SHC	SHC	SHC
-8	8.2	-	-	-	-	-	-	-	-
-3	-	9.1	-	-	-	-	-	-	-
0	-	-	8.5	-	-	-	-	-	-
3	-	-	-	7.9	7.9	-	-	-	-
7	-	-	-	-	7.1	7.1	7.1	-	-
11	-	-	-	-	-	-	6.3	6.3	-
15	-	-	-	-	-	-	-	5.5	5.5
18	-	-	-	-	-	-	-	5.0	5.0
20	-	-	-	-	-	-	-	-	4.6

PEFY-P140VMH-E-F

Outdoor air temp.	˚CWB								
˚CDB	-9	-5	-2.9	0	2	4	6	10	14
	SHC	SHC	SHC	SHC	SHC	SHC	SHC	SHC	SHC
-8	14.6	-	-	-	-	-	-	-	-
-3	-	16.2	-	-	-	-	-	-	-
0	-	-	15.1	-	-	-	-	-	-
3	-	-	-	14.0	14.0	-	-	-	-
7	-	-	-	-	12.6	12.6	12.6	-	-
11	-	-	-	-	-	-	11.2	11.2	-
15	-	-	-	-	-	-	-	9.8	9.8
18	-	-	-	-	-	-	-	8.8	8.8
20	-	-	-	-	-	-	-	-	8.1

2.4 Heating Outlet air temp.

PEFY-P80VMH-E-F

Outdoor air temp.	˚CWB								
˚CDB	-9	-5	-2.9	0	2	4	6	10	14
	˚CDB	˚CDB	˚CDB	˚CDB	˚CDB	˚CDB	˚CDB	˚CDB	˚CDB
-8	40.6	-	-	-	-	-	-	-	-
-3	-	53.1	-	-	-	-	-	-	-
0	-	-	51.9	-	-	-	-	-	-
3	-	-	-	51.3	51.8	-	-	-	-
7	-	-	-	-	50.5	50.5	50.9	-	-
11	-	-	-	-	-	-	49.6	50.1	-
15	-	-	-	-	-	-	-	48.8	49.2
18	-	-	-	-	-	-	-	48.2	48.2
20	-	-	-	-	-	-	-	-	47.8

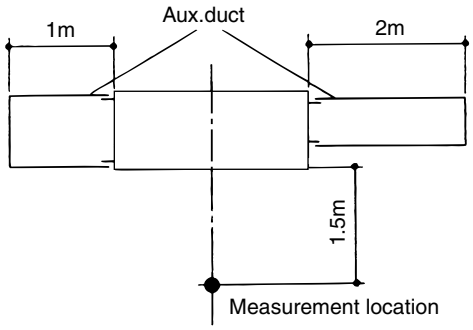
PEFY-P140VMH-E-F

Outdoor air temp.	˚CWB								
˚CDB	-9	-5	-2.9	0	2	4	6	10	14
	˚CDB	˚CDB	˚CDB	˚CDB	˚CDB	˚CDB	˚CDB	˚CDB	˚CDB
-8	34.7	-	-	-	-	-	-	-	-
-3	-	45.8	-	-	-	-	-	-	-
0	-	-	45.6	-	-	-	-	-	-
3	-	-	-	45.4	45.4	-	-	-	-
7	-	-	-	-	45.2	45.2	45.2	-	-
11	-	-	-	-	-	-	45.0	45.0	-
15	-	-	-	-	-	-	-	44.7	45.1
18	-	-	-	-	-	-	-	44.6	44.6
20	-	-	-	-	-	-	-	-	44.4

3. Sound Levels

3.1 Noise levels(VMH-E-F)

Ceiling concealed (VMH-E series)



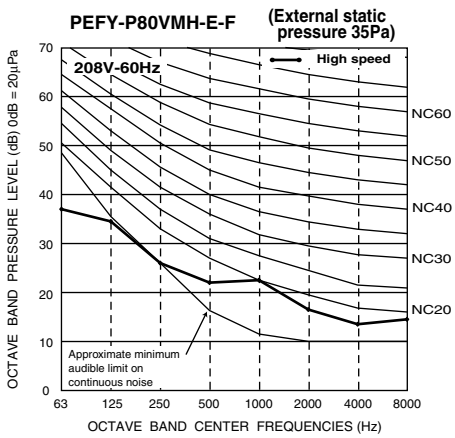
Noise level at anechoic room — Unit : dB(A)

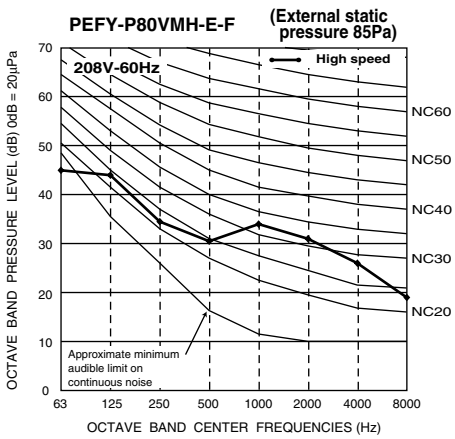
Model		External static pressure		
		Low	Mid	High
PEFY-P80 VMH-E-F	208,220V	27	38	43
	230,240V	33	43	45
PEFY-P140 VMH-E-F	208,220V	28	38	43
	230,240V	34	43	45

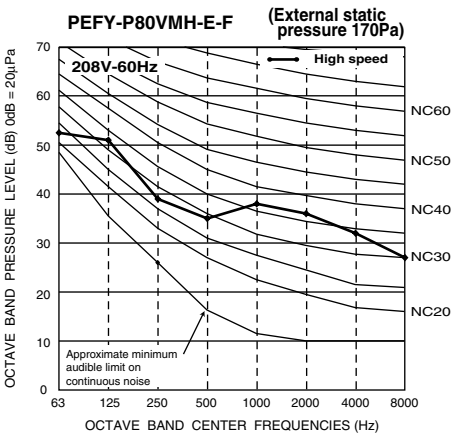
External static pressure (Low/Mid/High) — Unit : Pa

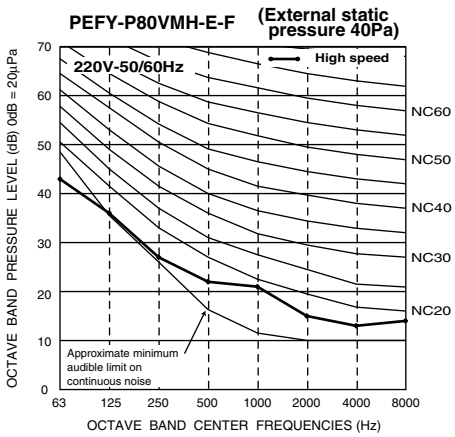
Model	External static pressure		Power source			
			208V	220V	230V	240V
PEFY-P80VMH-E-F	50Hz	Low	-	40	50	80
		Mid		115	130	170
		High		190	210	220
	60Hz	Low	35	40	50	-
		Mid	85	115	130	
		High	170	190	210	
PEFY-P140VMH-E-F	50Hz	Low	-	50	60	100
		Mid		115	130	170
		High		119	220	240
	60Hz	Low	35	50	60	-
		Mid	85	115	130	
		High	170	190	220	

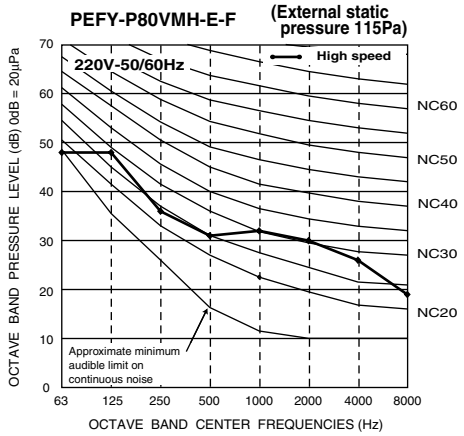
3.2 NC curves(VMH-E-F)

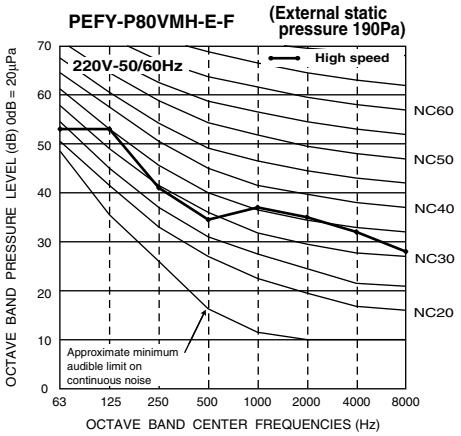


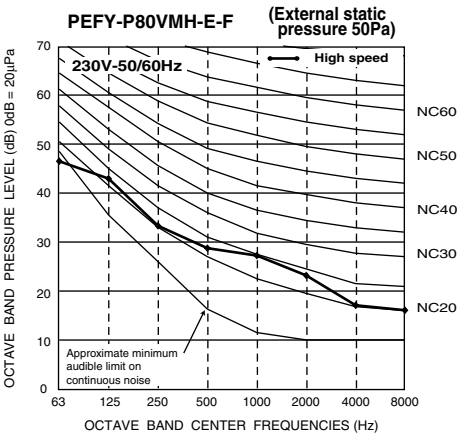


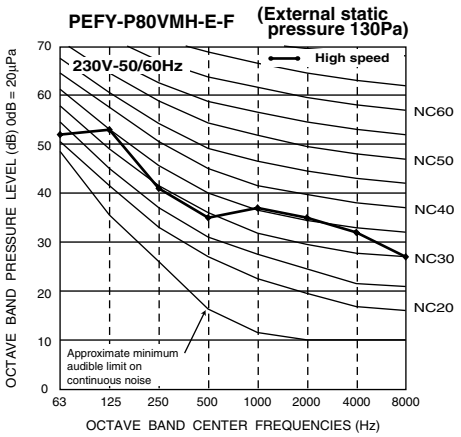


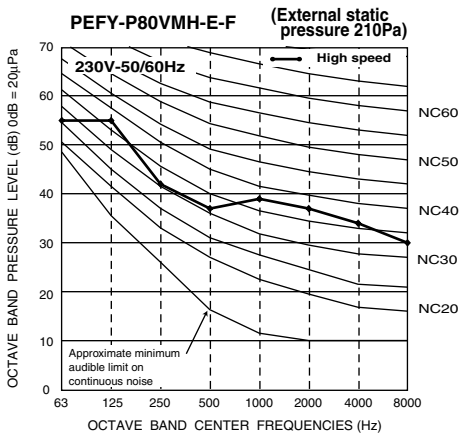


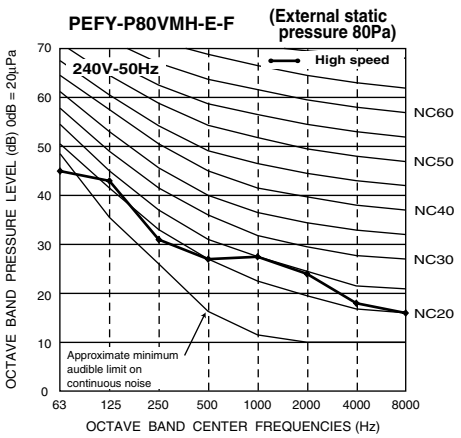

PEFY-P80VMH-E-F
(External static pressure 115Pa)
220V-50/60Hz
High speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB = 20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

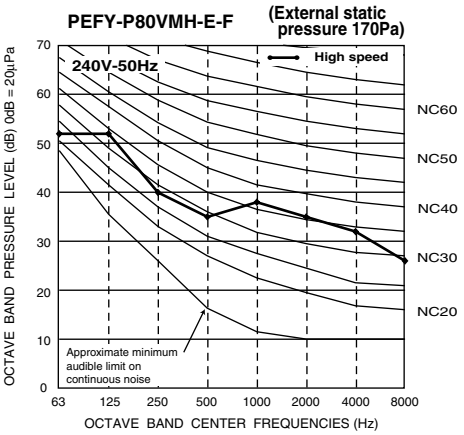

PEFY-P80VMH-E-F
(External static pressure 190Pa)
220V-50/60Hz
High speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB = 20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

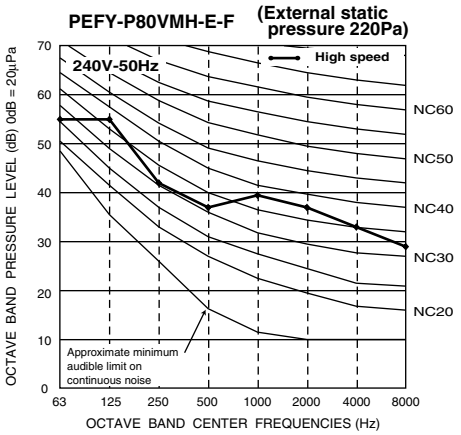

PEFY-P80VMH-E-F
(External static pressure 50Pa)
230V-50/60Hz
High speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB = 20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

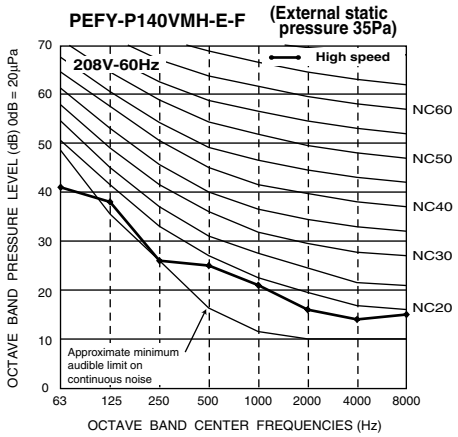

PEFY-P80VMH-E-F
(External static pressure 130Pa)
230V-50/60Hz
High speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB = 20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

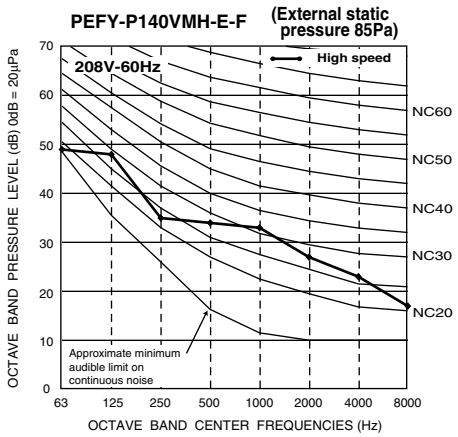

PEFY-P80VMH-E-F
(External static pressure 210Pa)
230V-50/60Hz
High speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB = 20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

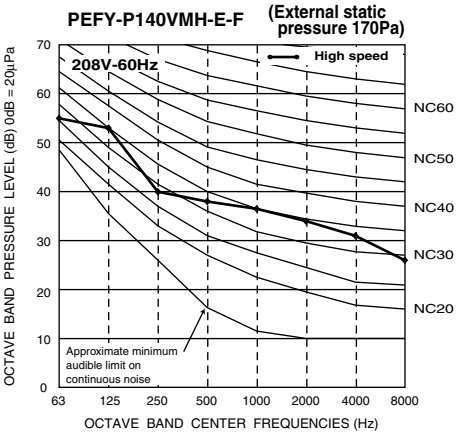

PEFY-P80VMH-E-F
(External static pressure 80Pa)
240V-50Hz
High speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB = 20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

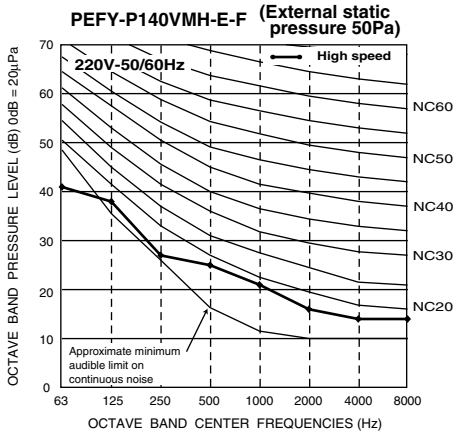

PEFY-P80VMH-E-F
(External static pressure 170Pa)
240V-50Hz
High speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB = 20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

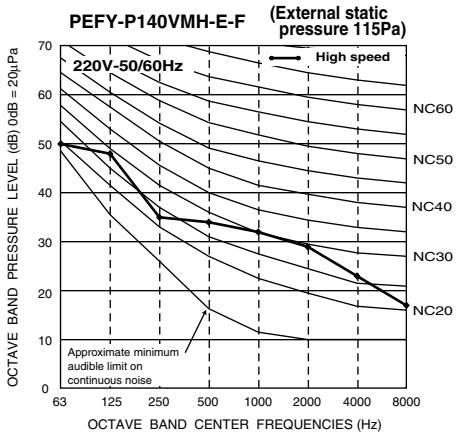

PEFY-P80VMH-E-F
(External static pressure 220Pa)
240V-50Hz
High speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB = 20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

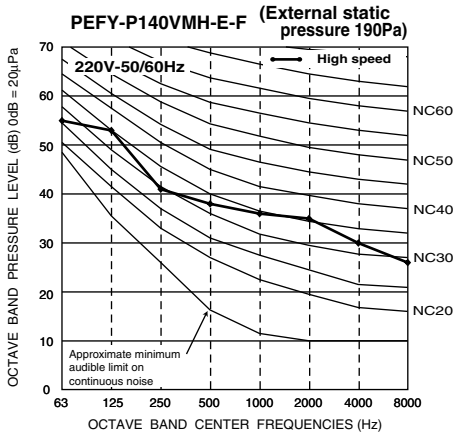

PEFY-P140VMH-E-F
(External static pressure 35Pa)
208V-60Hz
High speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB = 20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

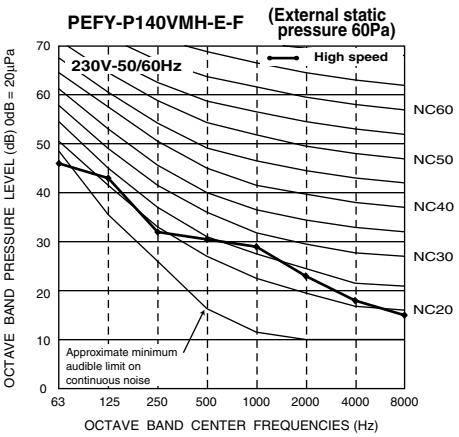

PEFY-P140VMH-E-F
(External static pressure 85Pa)
208V-60Hz
High speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB = 20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

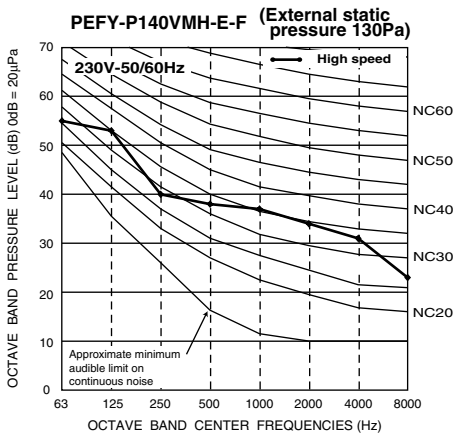

PEFY-P140VMH-E-F
(External static pressure 170Pa)
208V-60Hz
High speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB = 20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

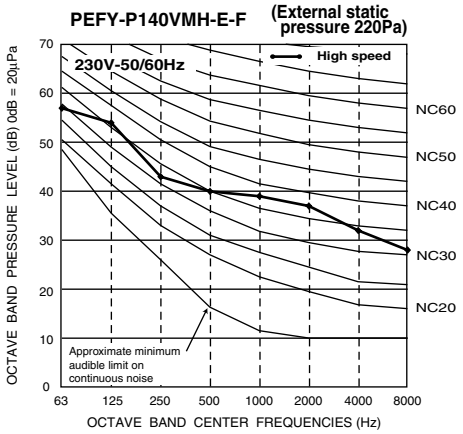

PEFY-P140VMH-E-F
(External static pressure 50Pa)
220V-50/60Hz
High speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB = 20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

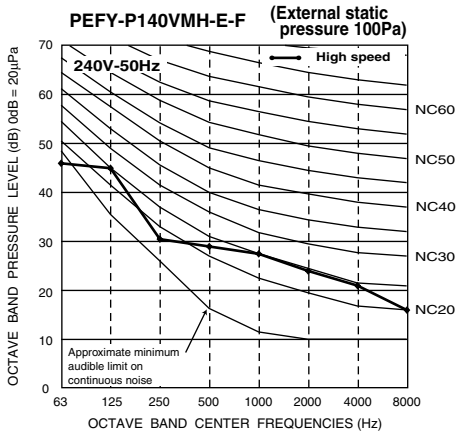

PEFY-P140VMH-E-F
(External static pressure 115Pa)
220V-50/60Hz
High speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB = 20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

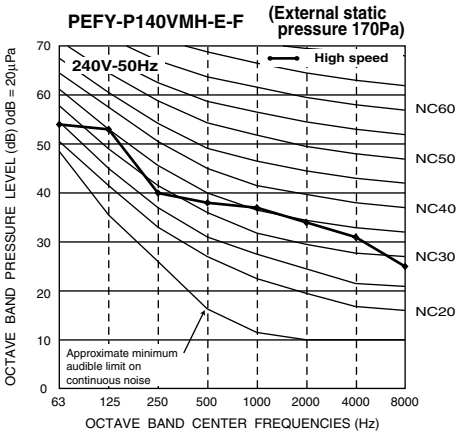

PEFY-P140VMH-E-F
(External static pressure 190Pa)
220V-50/60Hz
High speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB = 20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

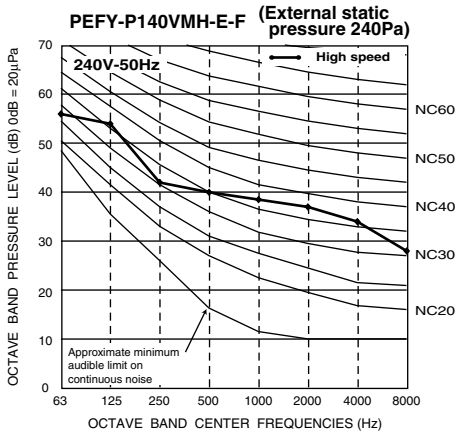

PEFY-P140VMH-E-F
(External static pressure 60Pa)
230V-50/60Hz
High speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB = 20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)


PEFY-P140VMH-E-F
(External static pressure 130Pa)
230V-50/60Hz
High speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB = 20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)


PEFY-P140VMH-E-F
(External static pressure 220Pa)
230V-50/60Hz
High speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB = 20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)
0
10
20
30
40
50
60
70
63
125
250
500
1000
2000
4000
8000

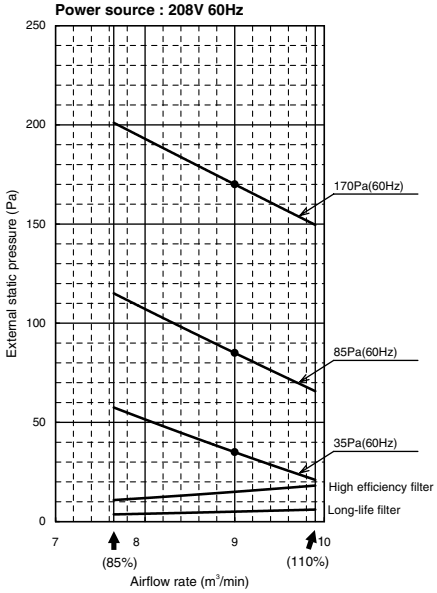

PEFY-P140VMH-E-F
(External static pressure 100Pa)
240V-50Hz
High speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB = 20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)
0
10
20
30
40
50
60
70
63
125
250
500
1000
2000
4000
8000


PEFY-P140VMH-E-F
(External static pressure 170Pa)
240V-50Hz
High speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB = 20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)
0
10
20
30
40
50
60
70
63
125
250
500
1000
2000
4000
8000

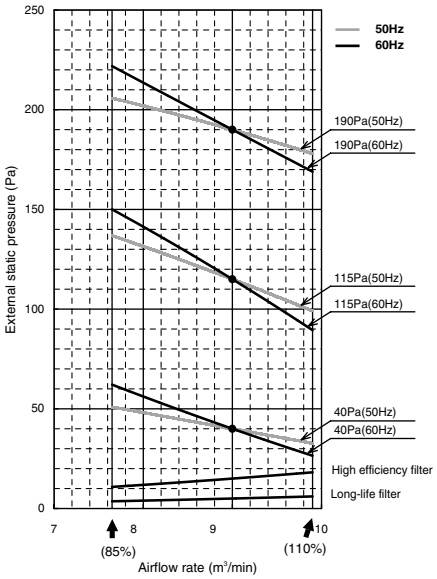

PEFY-P140VMH-E-F
(External static pressure 240Pa)
240V-50Hz
High speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB = 20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)
0
10
20
30
40
50
60
70
63
125
250
500
1000
2000
4000
8000

3.3 Fan characteristics curves(VMH-E-F)

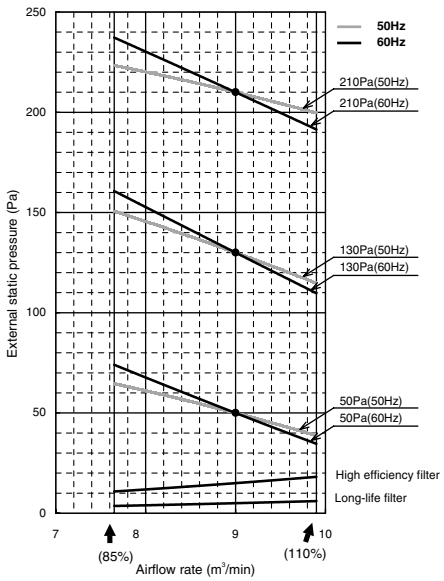
PEFY-P80VMH-E-F
Suction : Back inlet
External static pressure : 35,85,170Pa
Power source : 208V 60Hz



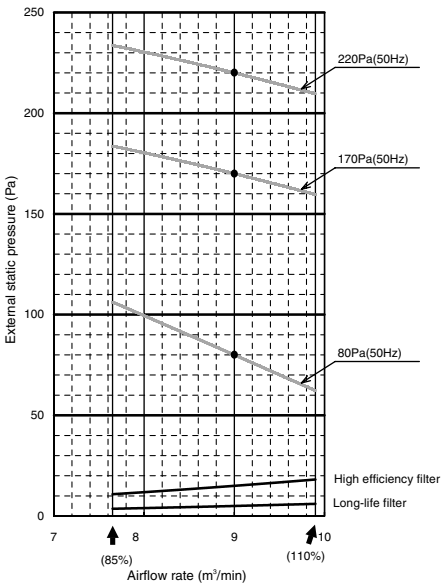
PEFY-P80VMH-E-F
Suction : Back inlet
External static pressure : 40,115,190Pa
Power source : 220V 50/60Hz



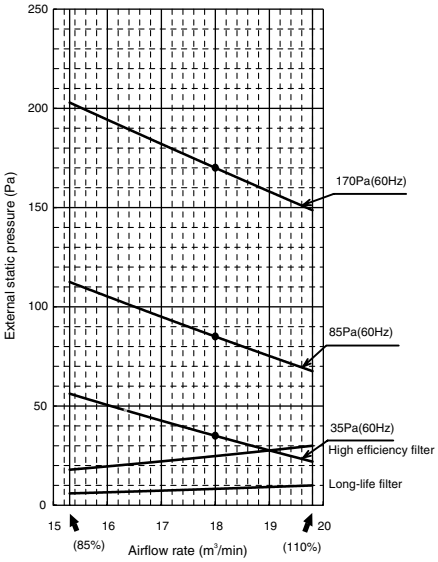
PEFY-P80VMH-E-F
Suction : Back inlet
External static pressure : 50,130,210Pa
Power source : 230V 50/60Hz



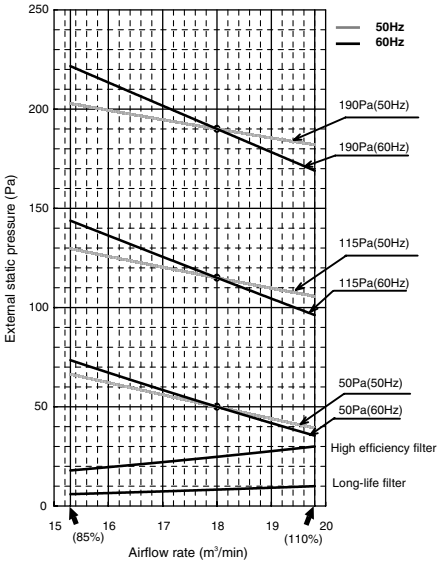
PEFY-P80VMH-E-F
Suction : Back inlet
External static pressure : 80,170,220Pa
Power source : 240V 50Hz



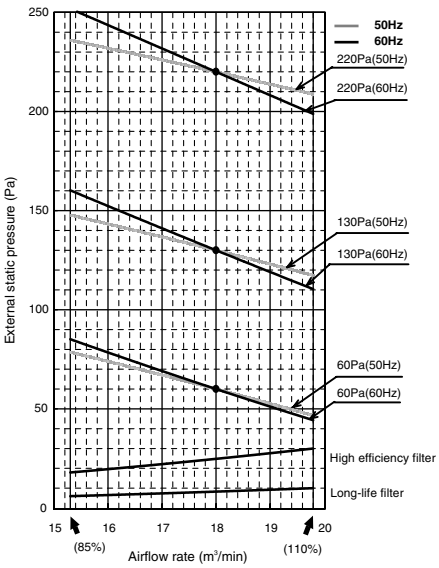
PEFY-P140VMH-E-F
Suction : Back inlet
External static pressure : 35,85,170Pa
Power source : 208V 60Hz



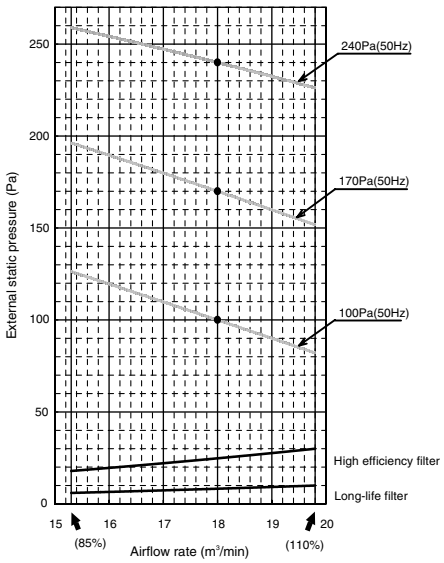
PEFY-P140VMH-E-F
Suction : Back inlet
External static pressure : 50,115,190Pa
Power source : 220V 50/60Hz



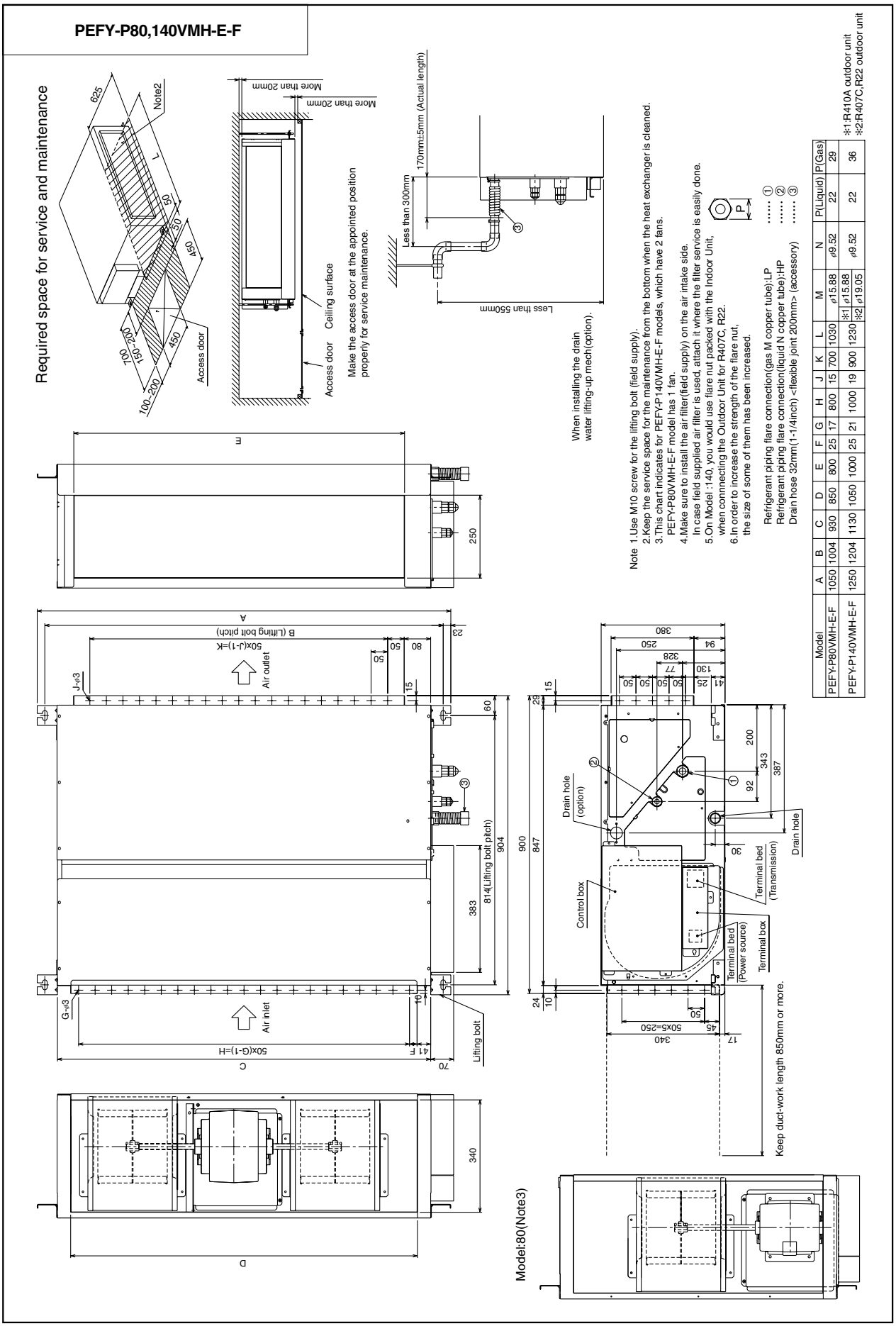
PEFY-P140VMH-E-F
Suction : Back inlet
External static pressure : 60,130,220Pa
Power source : 230V 50/60Hz



PEFY-P140VMH-E-F
Suction : Back inlet
External static pressure : 100,170,240Pa
Power source : 240V 50Hz



4. External Dimensions

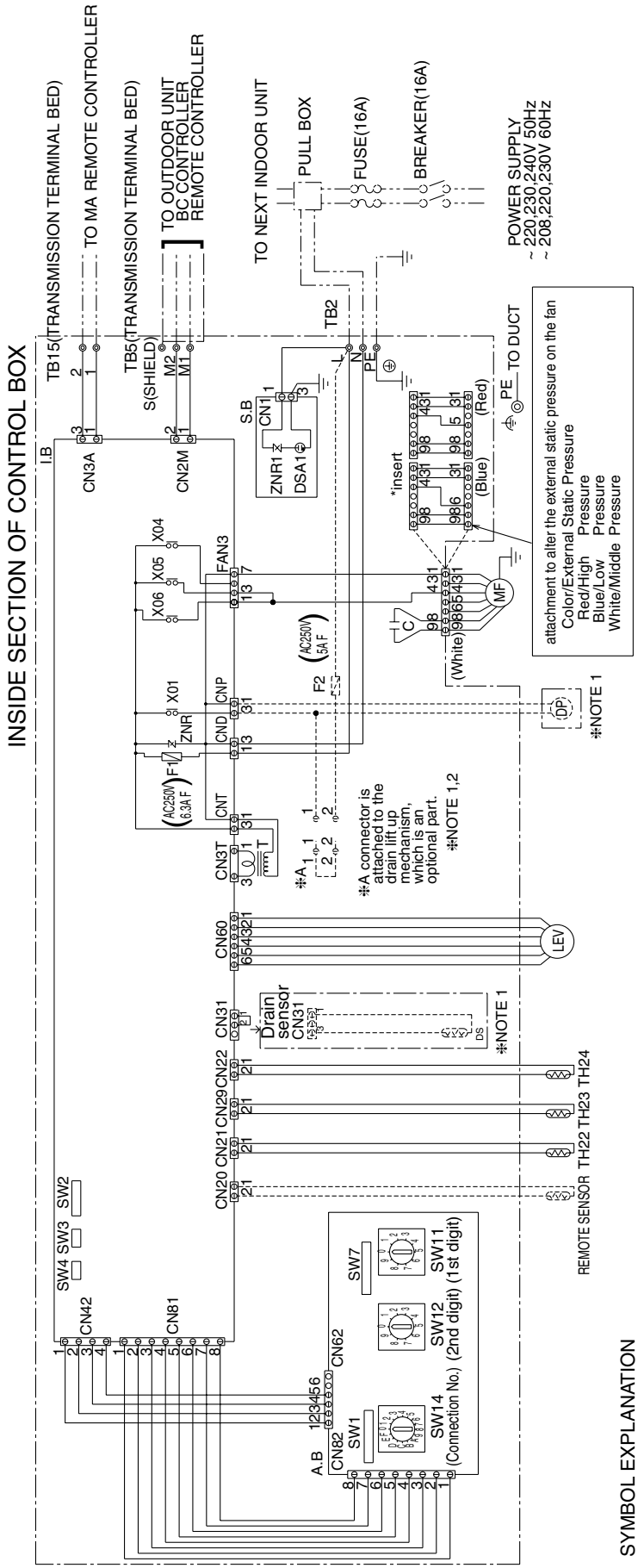


Model	A	B	C	D	E	F	G	H	J	K	L	M	N	P(Liquid)	P(Gas)
PEFY-P80VMH-E-F	1050	1004	930	850	800	25	17	800	15	700	1030	φ15.88	φ9.52	22	29
PEFY-P140VMH-E-F	1250	1204	1130	1050	1000	25	21	1000	19	900	1230	※1 φ15.88 ※2 φ19.05	φ9.52	22	36

PEFY-P-VMH-E-F

5. Electrical Wiring Diagrams

PEFY-P80,140VMH-E-F



NOTE : 1. The part of the broken line indicates the circuit for optional parts.
2. ✻A in the chart is the connector for a drain pump test run operation. (The Drain Pump operates continuously if the connector is inserted and the power is supplied.) After the test run, make sure to remove the ✻A connector.
3. The wirings to TB2, TB5 (shown in dotted line) are field work.
4. Mark ◎ indicates terminal bed, ⊖ connector, ⊕ board insertion connector or fastening connector of control board.

SYMBOL EXPLANATION

SYMBOL	NAME	SYMBOL	NAME
MF	Fan motor	CN20	Connector (remote sensor)
C	✻B Capacitor (for MF)	TH22	Thermistor (piping temp.detection/liquid)
I.B	Indoor controller board	TH23	Thermistor (piping temp.detection/gas)
<DS>	Drain sensor	TH24	Thermistor (outdoor air temp.detection)
A.B	Address board	SW11(A.B)	Switch (1st digit address set)
TB2	Power source terminal bed	SW12(A.B)	Switch (2nd digit address set)
TB5	Transmission terminal bed	SW14(A.B)	Switch (connection No.set)
TB15	Transmission terminal bed	SW1(A.B)	Switch(for mode selection)
F1	Fuse AC250V 6.3A F	SW2(I.B)	Switch(for capacity code)
<F2>	Fuse AC250V 5A F	SW3(I.B)	Switch(for mode selection)
T	Transformer	SW4(I.B)	Switch(for model selection)
<DP>	Drain Pump	SW7(A.B)	Switch(for model selection)
LEV	Electronic linear expan. valve	X04 ~ X06	Aux.relay
S.B	Surge absorber board		

Inside < > is the optional parts.

6. Options

Description	Model	Applicable capacity
Long life filter	PAC-KE88LAF	P80
	PAC-KE89LAF	P140
Filter box	PAC-KE80TBA-F	P80
	PAC-KE140TBA-F	P140
Drain water lift-up kit	PAC-KE04DM-F	P80/P140

Ceiling mounted built-in PDFY-P-VM-E

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Model Name	20	25	32	40	50	63	71	80	100	125	140	200	250
PDFY-P-VM-E	●	●	●	●	●	●	●	●	●	●			

1. Specifications

			PDFY-P20VM-E	PDFY-P25VM-E	PDFY-P32VM-E	PDFY-P40VM-E	PDFY-P50VM-E
Power source			~ 220-240V 50Hz / ~ 220V 60Hz				
Cooling capacity	※1	kW	2.2	2.8	3.6	4.5	5.6
	※1	BTU/h	7,500	9,550	12,280	15,350	19,100
	※2	kW	2.3	2.9	3.7	4.7	5.8
	※2	kcal/h	2,000	2,500	3,150	4,000	5,000
Heating capacity	※1	kW	2.5	3.2	4.0	5.0	6.3
	※1	BTU/h	8,530	10,750	13,640	17,060	21,500
	※2	kW	2.6	3.3	4.1	5.2	6.5
	※2	kcal/h	2,250	2,800	3,550	4,500	5,600
Power consumption (50/60Hz)	Cooling	kW	0.11/0.12			0.13/0.15	
	Heating	kW	0.11/0.12			0.13/0.15	
Current	Cooling	A	0.53/0.58			0.60/0.71	
	Heating	A	0.53/0.58			0.60/0.71	
External finish			Galvanizing				
Dimension H x W x D		mm	295 x 710 x 735			295 x 960 x 735	
Net weight		kg	25.5		27	32	34
Heat exchanger			Cross fin (Aluminum plate fin and copper tube)				
Fan	Type		Sirocco fan× 1			Sirocco fan× 2	
	Airflow rate (Lo-Mid2-Mid1-Hi)	m^3/min	6.0-6.5-7.5-8.5			10.0-11.0-12.5-14.0	
	External static pressure ※3	Pa	30/50/100				
Motor	Type		Single phase induction motor				
	Output ※4	kW	0.075(at 240V)				
Air filter ※5			Synthethic fiber unwoven cloth filter(long life)				
Refrigerant pipe dimension	Gas (Flare)	mm	ø 12.7				ø 12.7 (R410A) ø 15.88 (R22,R407C)
	Liqud (Flare)	mm	ø 6.35				ø 6.35 (R410A) ø 9.52 (R22,R407C)
Drain pipe dimension			Outer diameter 32(VP-25)				
Noise level (Lo-Mid2-Mid1-Hi) ※7		dB(A)	28-30-33-36			34-36-37-39	

			PDFY-P63VM-E	PDFY-P71VM-E	PDFY-P80VM-E	PDFY-P100VM-E	PDFY-P125VM-E
Power source			~ 220-240V 50Hz / ~ 220V 60Hz				
Cooling capacity	※1	kW	7.1	8.0	9.0	11.2	14.0
	※1	BTU/h	24,220	27,290	30,700	38,200	47,750
	※2	kW	7.3	8.3	9.3	11.6	14.5
	※2	kcal/h	6,300	7,100	8,000	10,000	12,500
Heating capacity	※1	kW	8.0	9.0	10.0	12.5	16.0
	※1	BTU/h	27,290	30,700	34,120	42,650	54,580
	※2	kW	8.3	9.3	10.5	13.0	16.3
	※2	kcal/h	7,100	8,000	9,000	11,200	14,000
Power consumption	Cooling	kW	0.14/0.17	0.15/0.18	0.17/0.21	0.27-0.31/0.29	0.33-0.38/0.39
	Heating	kW	0.14/0.17	0.15/0.18	0.17/0.21	0.27-0.31/0.29	0.33-0.38/0.39
Current	Cooling	A	0.68/0.82	0.72/0.88	0.82/1.01	1.28-1.34/1.36	1.55-1.63/1.84
	Heating	A	0.68/0.82	0.72/0.88	0.82/1.01	1.28-1.34/1.36	1.55-1.63/1.84
External finish			Galvanizing				
Dimension H x W x D		mm	295 x 1,160 x 735			335 x 1,510 x 775	
Net weight		kg	39			52	
Heat exchanger			Cross fin (Aluminum plate fin and copper tube)				
Fan	Type		Sirocco fan× 2				
	Airflow rate (Lo-Mid2-Mid1-Hi)	m^3/min	12.5-14.0-16.0-18.0	13.5-15.5-17.5-19.5	14.5-16.5-18.5-21.0	19.5-28.0 (Lo-Hi)	24.0-34.0 (Lo-Hi)
	External static pressure ※3	Pa	30/50/100			50/100/130	
Motor	Type		Single phase induction motor				
	Output ※4	kW	0.078(at 240V)			0.140(at 240V)	0.190(at 240V)
Air filter			Synthethic fiber unwoven cloth filter(long life)				
Refrigerant pipe dimension	Gas (Flare)	mm	ø 15.88			ø 15.88 (R410A) ø 19.05 (R22,R407C)	
	Liquid (Flare)	mm	ø 9.52				
Drain pipe dimension			Outer diameter 32(VP-25)				
Noise level (Lo-Mid2-Mid1-Hi) ※6		dB(A)	30-34-36-39	32-35-37-40	34-37-40-42	34-42(37-44)※5	40-45(42-46)※5

Note: ※1 Cooling/Heating capacity indicates the maximum value at operation under the following condition.
Cooling : Indoor 27˚CDB/19˚CWB,Outdoor 35˚CDB
Heating : Indoor 20˚CDB,Outdoor 7˚CDB/6˚CWB
※2 Cooling capacity indicates the maximum value at operation under the following condition.
Cooling : Indoor 27˚CDB/19.5˚CWB,Outdoor 35˚CDB (WR2: water 30˚C)
Heating : Indoor 21˚CDB,Outdoor 7˚CDB/6˚CWB (WR2: water 20˚C)
※3 The external static pressure is set to 50Pa at factory shipment.
※4 The value for Models 20-80 are that at the external static pressure of 100Pa, while the value for Models 100-125 are that at the external static pressure of 130Pa.
※5 The figure in ( ) indicates noise level at 240V/50Hz.
※6 It is measured in anechoic room.

2. Capacity Tables

2.1a. Cooling capacity in combination with PUHY,PUY,PURY-P200,250YGM

PDFY-P-VM-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.0	1.7	2.1	1.8	2.3	1.8	2.4	1.9	2.4	1.9	2.6	1.9	2.8	1.9
	22.5	2.0	1.7	2.1	1.8	2.3	1.8	2.4	1.9	2.4	1.9	2.6	1.9	2.8	1.9
	25.0	2.0	1.7	2.1	1.8	2.3	1.8	2.4	1.9	2.4	1.9	2.6	1.9	2.7	1.9
	27.5	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.8	2.4	1.9	2.5	1.9	2.7	1.9
	30.0	1.9	1.7	2.0	1.8	2.2	1.8	2.3	1.8	2.3	1.9	2.5	1.9	2.6	1.8
	32.5	1.9	1.7	2.0	1.8	2.1	1.7	2.2	1.8	2.3	1.9	2.4	1.8	2.6	1.8
	35.0	1.9	1.7	2.0	1.7	2.1	1.7	2.2	1.8	2.2	1.8	2.4	1.8	2.5	1.8
	37.5	1.8	1.6	1.9	1.7	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.8	2.5	1.8
	40.0	1.8	1.6	1.9	1.7	2.0	1.7	2.1	1.7	2.1	1.8	2.3	1.8	2.4	1.8
	43.0	1.8	1.6	1.8	1.7	2.0	1.7	2.0	1.7	2.0	1.8	2.2	1.8	2.4	1.7
25 (2.8)	20.0	2.5	2.0	2.7	2.1	2.9	2.1	3.0	2.1	3.1	2.2	3.3	2.2	3.5	2.1
	22.5	2.5	2.0	2.7	2.1	2.9	2.1	3.0	2.1	3.1	2.2	3.3	2.2	3.5	2.1
	25.0	2.5	2.0	2.7	2.1	2.9	2.1	3.0	2.1	3.1	2.2	3.3	2.2	3.5	2.1
	27.5	2.5	1.9	2.6	2.0	2.8	2.0	3.0	2.1	3.0	2.2	3.2	2.1	3.4	2.1
	30.0	2.5	1.9	2.6	2.0	2.8	2.0	2.9	2.1	3.0	2.1	3.1	2.1	3.3	2.1
	32.5	2.4	1.9	2.5	2.0	2.7	2.0	2.8	2.0	2.9	2.1	3.1	2.1	3.3	2.1
	35.0	2.4	1.9	2.5	2.0	2.7	2.0	2.8	2.0	2.8	2.1	3.0	2.1	3.2	2.0
	37.5	2.4	1.9	2.5	2.0	2.6	1.9	2.7	2.0	2.8	2.1	3.0	2.0	3.1	2.0
	40.0	2.3	1.9	2.4	1.9	2.6	1.9	2.7	2.0	2.7	2.0	2.9	2.0	3.1	2.0
	43.0	2.3	1.8	2.4	1.9	2.5	1.9	2.6	1.9	2.6	2.0	2.8	2.0	3.0	2.0
32 (3.6)	20.0	3.2	2.4	3.4	2.5	3.7	2.5	3.9	2.5	4.0	2.6	4.2	2.6	4.6	2.6
	22.5	3.2	2.4	3.4	2.5	3.7	2.5	3.9	2.5	4.0	2.6	4.2	2.6	4.6	2.6
	25.0	3.2	2.4	3.4	2.5	3.7	2.5	3.9	2.5	4.0	2.6	4.2	2.6	4.5	2.6
	27.5	3.2	2.4	3.4	2.5	3.6	2.5	3.8	2.5	3.9	2.6	4.1	2.6	4.4	2.5
	30.0	3.2	2.3	3.3	2.4	3.6	2.4	3.7	2.5	3.8	2.6	4.0	2.5	4.3	2.5
	32.5	3.1	2.3	3.3	2.4	3.5	2.4	3.7	2.4	3.7	2.5	4.0	2.5	4.2	2.5
	35.0	3.1	2.3	3.2	2.4	3.4	2.4	3.6	2.4	3.7	2.5	3.9	2.5	4.1	2.4
	37.5	3.0	2.3	3.2	2.4	3.3	2.3	3.5	2.4	3.6	2.5	3.8	2.4	4.0	2.4
	40.0	3.0	2.2	3.1	2.3	3.3	2.3	3.5	2.4	3.5	2.4	3.7	2.4	4.0	2.4
	43.0	2.9	2.2	3.0	2.3	3.2	2.3	3.3	2.3	3.3	2.4	3.6	2.4	3.9	2.3
40 (4.5)	20.0	4.0	3.1	4.3	3.2	4.6	3.2	4.9	3.3	5.0	3.4	5.3	3.4	5.7	3.4
	22.5	4.0	3.1	4.3	3.2	4.6	3.2	4.9	3.3	5.0	3.4	5.3	3.4	5.7	3.4
	25.0	4.0	3.1	4.3	3.2	4.6	3.2	4.9	3.3	5.0	3.4	5.3	3.4	5.6	3.3
	27.5	4.0	3.1	4.3	3.2	4.5	3.2	4.8	3.3	4.8	3.4	5.2	3.3	5.5	3.3
	30.0	4.0	3.0	4.2	3.2	4.5	3.2	4.7	3.2	4.8	3.3	5.0	3.3	5.4	3.3
	32.5	3.9	3.0	4.1	3.1	4.4	3.1	4.6	3.2	4.7	3.3	5.0	3.3	5.3	3.2
	35.0	3.8	3.0	4.0	3.1	4.3	3.1	4.5	3.2	4.6	3.3	4.9	3.2	5.2	3.2
	37.5	3.8	3.0	4.0	3.1	4.2	3.0	4.4	3.1	4.5	3.2	4.8	3.2	5.0	3.1
	40.0	3.7	2.9	3.9	3.0	4.1	3.0	4.3	3.1	4.4	3.2	4.7	3.2	5.0	3.1
	43.0	3.6	2.9	3.8	3.0	4.0	3.0	4.2	3.0	4.2	3.1	4.5	3.1	4.8	3.1
50 (5.6)	20.0	5.0	3.8	5.3	4.0	5.8	4.0	6.0	4.1	6.2	4.2	6.6	4.2	7.1	4.2
	22.5	5.0	3.8	5.3	4.0	5.8	4.0	6.0	4.1	6.2	4.2	6.6	4.2	7.1	4.2
	25.0	5.0	3.8	5.3	4.0	5.8	4.0	6.0	4.1	6.2	4.2	6.6	4.2	6.9	4.1
	27.5	5.0	3.8	5.3	4.0	5.7	3.9	5.9	4.0	6.0	4.2	6.4	4.1	6.8	4.1
	30.0	4.9	3.8	5.2	3.9	5.5	3.9	5.8	4.0	5.9	4.1	6.3	4.1	6.7	4.0
	32.5	4.8	3.7	5.1	3.9	5.4	3.8	5.7	3.9	5.8	4.1	6.2	4.0	6.6	4.0
	35.0	4.8	3.7	5.0	3.8	5.3	3.8	5.6	3.9	5.7	4.0	6.0	4.0	6.4	3.9
	37.5	4.7	3.6	4.9	3.8	5.2	3.7	5.5	3.8	5.5	4.0	5.9	3.9	6.3	3.9
	40.0	4.6	3.6	4.8	3.7	5.1	3.7	5.4	3.8	5.5	3.9	5.8	3.9	6.2	3.8
	43.0	4.5	3.6	4.7	3.7	5.0	3.6	5.2	3.7	5.2	3.8	5.7	3.8	6.0	3.8
63 (7.1)	20.0	6.4	4.8	6.8	5.0	7.3	5.0	7.7	5.1	7.8	5.3	8.4	5.2	9.0	5.2
	22.5	6.4	4.8	6.8	5.0	7.3	5.0	7.7	5.1	7.8	5.3	8.4	5.2	9.0	5.2
	25.0	6.4	4.8	6.8	5.0	7.3	5.0	7.7	5.1	7.8	5.3	8.3	5.2	8.8	5.1
	27.5	6.3	4.7	6.7	5.0	7.2	4.9	7.5	5.1	7.6	5.2	8.1	5.2	8.7	5.1
	30.0	6.2	4.7	6.6	4.9	7.0	4.9	7.4	5.0	7.5	5.2	8.0	5.1	8.5	5.0
	32.5	6.1	4.6	6.5	4.8	6.9	4.8	7.2	4.9	7.3	5.1	7.8	5.0	8.3	5.0
	35.0	6.0	4.6	6.4	4.8	6.7	4.8	7.1	4.9	7.2	5.0	7.7	5.0	8.1	4.9
	37.5	6.0	4.6	6.2	4.7	6.6	4.7	6.9	4.8	7.0	5.0	7.5	4.9	8.0	4.8
	40.0	5.9	4.5	6.1	4.7	6.5	4.6	6.8	4.8	6.9	4.9	7.3	4.8	7.8	4.8
	43.0	5.8	4.5	6.0	4.6	6.3	4.6	6.6	4.7	6.6	4.8	7.2	4.8	7.6	4.7
71 (8.0)	20.0	7.2	5.4	7.6	5.7	8.2	5.7	8.6	5.8	8.8	6.0	9.4	5.9	10.1	5.9
	22.5	7.2	5.4	7.6	5.7	8.2	5.7	8.6	5.8	8.8	6.0	9.4	5.9	10.1	5.9
	25.0	7.2	5.4	7.6	5.7	8.2	5.7	8.6	5.8	8.8	6.0	9.4	5.9	9.9	5.8
	27.5	7.1	5.4	7.6	5.6	8.1	5.6	8.5	5.7	8.6	5.9	9.2	5.8	9.8	5.8
	30.0	7.0	5.3	7.4	5.6	7.9	5.5	8.3	5.7	8.5	5.8	9.0	5.7	9.6	5.7
	32.5	6.9	5.2	7.3	5.5	7.8	5.4	8.1	5.6	8.3	5.8	8.8	5.7	9.4	5.6
	35.0	6.8	5.2	7.2	5.4	7.6	5.4	8.0	5.5	8.1	5.7	8.6	5.6	9.2	5.5
	37.5	6.7	5.2	7.0	5.4	7.4	5.3	7.8	5.4	7.9	5.6	8.5	5.6	9.0	5.5
	40.0	6.6	5.1	6.9	5.3	7.3	5.2	7.7	5.4	7.8	5.6	8.3	5.5	8.8	5.4
	43.0	6.5	5.0	6.7	5.2	7.1	5.2	7.4	5.3	7.4	5.4	8.1	5.4	8.6	5.3

Cooling capacity in combination with PUHY,PUY,PURY-P200,250YGM

PDFY-P-VM-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
80 (9.0)	20.0	8.1	5.9	8.6	6.2	9.3	6.2	9.7	6.3	9.9	6.5	10.6	6.5	11.4	6.4
	22.5	8.1	5.9	8.6	6.2	9.3	6.2	9.7	6.3	9.9	6.5	10.6	6.5	11.4	6.4
	25.0	8.1	5.9	8.6	6.2	9.3	6.2	9.7	6.3	9.9	6.5	10.5	6.4	11.2	6.3
	27.5	8.0	5.8	8.5	6.1	9.1	6.1	9.5	6.2	9.7	6.4	10.3	6.3	11.0	6.3
	30.0	7.9	5.8	8.4	6.1	8.9	6.0	9.4	6.2	9.5	6.3	10.1	6.2	10.8	6.2
	32.5	7.7	5.7	8.2	6.0	8.7	5.9	9.1	6.1	9.3	6.3	9.9	6.2	10.5	6.1
	35.0	7.7	5.7	8.1	5.9	8.6	5.9	9.0	6.0	9.1	6.2	9.7	6.1	10.3	6.0
	37.5	7.6	5.6	7.9	5.8	8.4	5.8	8.8	5.9	8.9	6.1	9.5	6.0	10.1	5.9
	40.0	7.4	5.6	7.7	5.8	8.2	5.7	8.6	5.9	8.8	6.0	9.3	5.9	9.9	5.9
	43.0	7.3	5.5	7.6	5.7	8.0	5.6	8.4	5.7	8.4	5.9	9.1	5.9	9.6	5.8
100 (11.2)	20.0	10.0	7.4	10.7	7.8	11.5	7.8	12.1	8.0	12.4	8.2	13.2	8.1	14.2	8.1
	22.5	10.0	7.4	10.7	7.8	11.5	7.8	12.1	8.0	12.4	8.2	13.2	8.1	14.2	8.1
	25.0	10.0	7.4	10.7	7.8	11.5	7.8	12.1	8.0	12.3	8.2	13.1	8.1	13.9	8.0
	27.5	10.0	7.3	10.6	7.7	11.3	7.7	11.9	7.9	12.0	8.1	12.8	8.0	13.7	7.9
	30.0	9.9	7.3	10.4	7.6	11.1	7.6	11.6	7.8	11.9	8.0	12.5	7.9	13.4	7.8
	32.5	9.6	7.2	10.2	7.5	10.9	7.5	11.4	7.6	11.6	7.9	12.3	7.8	13.1	7.7
	35.0	9.5	7.1	10.0	7.4	10.6	7.4	11.2	7.6	11.4	7.8	12.1	7.7	12.8	7.6
	37.5	9.4	7.1	9.9	7.4	10.4	7.3	10.9	7.4	11.1	7.7	11.9	7.6	12.5	7.5
	40.0	9.2	7.0	9.6	7.2	10.2	7.2	10.8	7.4	10.9	7.6	11.6	7.5	12.3	7.4
	43.0	9.1	6.9	9.4	7.1	10.0	7.1	10.4	7.2	10.4	7.4	11.3	7.4	12.0	7.3
125 (14.0)	20.0	12.5	9.4	13.4	9.8	14.4	9.9	15.1	10.1	15.5	10.4	16.5	10.3	17.7	10.2
	22.5	12.5	9.4	13.4	9.8	14.4	9.9	15.1	10.1	15.5	10.4	16.5	10.3	17.7	10.2
	25.0	12.5	9.4	13.4	9.8	14.4	9.9	15.1	10.1	15.4	10.4	16.4	10.3	17.4	10.1
	27.5	12.5	9.3	13.2	9.8	14.1	9.7	14.8	10.0	15.1	10.2	16.0	10.1	17.1	10.0
	30.0	12.3	9.3	13.0	9.7	13.9	9.6	14.6	9.9	14.8	10.2	15.7	10.0	16.7	9.9
	32.5	12.0	9.1	12.7	9.5	13.6	9.5	14.2	9.7	14.5	10.0	15.4	9.9	16.4	9.8
	35.0	11.9	9.0	12.5	9.4	13.3	9.3	14.0	9.6	14.2	9.9	15.1	9.8	16.0	9.6
	37.5	11.8	9.0	12.3	9.3	13.0	9.2	13.7	9.5	13.9	9.7	14.8	9.7	15.7	9.5
	40.0	11.6	8.9	12.0	9.2	12.8	9.1	13.4	9.4	13.7	9.7	14.5	9.5	15.4	9.4
	43.0	11.3	8.8	11.8	9.1	12.5	9.0	13.0	9.2	13.0	9.4	14.1	9.4	15.0	9.3

2.1b. Heating capacity in combination with PUHY,PUY,PURY-P200,250YGM

PDFY-P-VM-E

SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
20 (2.2)	-20.0	1.3	1.3	1.3	1.3
	-15.0	1.6	1.5	1.5	1.5
	-10.0	1.8	1.8	1.8	1.7
	-5.0	2.1	2.1	2.0	1.8
	0.0	2.4	2.4	2.0	1.8
	2.5	2.5	2.5	2.0	1.8
	6.0	2.6	2.5	2.0	1.8
	7.5	2.7	2.5	2.0	1.8
	10.0	2.9	2.5	2.0	1.8
	12.5	3.0	2.5	2.0	1.8
	15.5	3.2	2.5	2.0	1.8
25 (2.8)	-20.0	1.6	1.6	1.6	1.6
	-15.0	2.0	2.0	1.9	1.9
	-10.0	2.3	2.3	2.2	2.2
	-5.0	2.7	2.7	2.6	2.2
	0.0	3.0	3.0	2.6	2.2
	2.5	3.2	3.2	2.6	2.2
	6.0	3.3	3.2	2.6	2.2
	7.5	3.4	3.2	2.6	2.2
	10.0	3.6	3.2	2.6	2.2
	12.5	3.9	3.2	2.6	2.2
	15.5	4.1	3.2	2.6	2.2
32 (3.6)	-20.0	2.1	2.0	2.0	2.0
	-15.0	2.5	2.4	2.4	2.4
	-10.0	2.9	2.9	2.8	2.7
	-5.0	3.4	3.3	3.2	2.8
	0.0	3.8	3.8	3.2	2.8
	2.5	4.0	4.0	3.2	2.8
	6.0	4.2	4.0	3.2	2.8
	7.5	4.3	4.0	3.2	2.8
	10.0	4.6	4.0	3.2	2.8
	12.5	4.8	4.0	3.2	2.8
	15.5	5.1	4.0	3.2	2.8
40 (4.5)	-20.0	2.6	2.5	2.5	2.5
	-15.0	3.1	3.1	3.0	3.0
	-10.0	3.7	3.6	3.5	3.4
	-5.0	4.2	4.2	4.0	3.5
	0.0	4.7	4.7	4.0	3.5
	2.5	5.0	5.0	4.0	3.5
	6.0	5.2	5.0	4.0	3.5
	7.5	5.4	5.0	4.0	3.5
	10.0	5.7	5.0	4.0	3.5
	12.5	6.0	5.0	4.0	3.5
	15.5	6.4	5.0	4.0	3.5
50 (5.6)	-20.0	3.2	3.2	3.2	3.2
	-15.0	3.9	3.8	3.8	3.7
	-10.0	4.6	4.5	4.4	4.3
	-5.0	5.3	5.2	5.0	4.4
	0.0	6.0	5.9	5.0	4.4
	2.5	6.3	6.2	5.0	4.4
	6.0	6.6	6.3	5.0	4.4
	7.5	6.8	6.3	5.0	4.4
	10.0	7.2	6.3	5.0	4.4
	12.5	7.6	6.3	5.0	4.4
	15.5	8.1	6.3	5.0	4.4
63 (7.1)	-20.0	4.1	4.0	4.0	4.0
	-15.0	5.0	4.9	4.8	4.7
	-10.0	5.8	5.8	5.6	5.5
	-5.0	6.7	6.6	6.4	5.6
	0.0	7.6	7.5	6.4	5.6
	2.5	8.0	7.9	6.4	5.6
	6.0	8.3	8.0	6.4	5.6
	7.5	8.6	8.0	6.4	5.6
	10.0	9.1	8.0	6.4	5.6
	12.5	9.6	8.0	6.4	5.6
	15.5	10.2	8.0	6.4	5.6
71 (8.0)	-20.0	4.6	4.5	4.5	4.5
	-15.0	5.6	5.5	5.4	5.3
	-10.0	6.6	6.5	6.3	6.2
	-5.0	7.6	7.5	7.2	6.3
	0.0	8.5	8.5	7.2	6.3
	2.5	9.0	8.9	7.2	6.3
	6.0	9.4	9.0	7.2	6.3
	7.5	9.7	9.0	7.2	6.3
	10.0	10.3	9.0	7.2	6.3
	12.5	10.8	9.0	7.2	6.3
	15.5	11.5	9.0	7.2	6.3

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
80 (9.0)	-20.0	5.2	5.0	5.0	5.0
	-15.0	6.2	6.1	6.0	5.9
	-10.0	7.3	7.2	7.0	6.9
	-5.0	8.4	8.3	8.0	7.0
	0.0	9.5	9.4	8.0	7.0
	2.5	10.0	9.9	8.0	7.0
	6.0	10.4	10.0	8.0	7.0
	7.5	10.8	10.0	8.0	7.0
	10.0	11.4	10.0	8.0	7.0
	12.5	12.1	10.0	8.0	7.0
	15.5	12.8	10.0	8.0	7.0
100 (11.2)	-20.0	6.4	6.3	6.3	6.3
	-15.0	7.8	7.6	7.5	7.4
	-10.0	9.1	9.0	8.8	8.6
	-5.0	10.5	10.4	10.0	8.8
	0.0	11.8	11.8	10.0	8.8
	2.5	12.5	12.4	10.0	8.8
	6.0	13.0	12.5	10.0	8.8
	7.5	13.4	12.5	10.0	8.8
	10.0	14.3	12.5	10.0	8.8
	12.5	15.1	12.5	10.0	8.8
	15.5	16.0	12.5	10.0	8.8
125 (14.0)	-20.0	8.2	8.0	8.0	8.0
	-15.0	9.9	9.8	9.6	9.4
	-10.0	11.7	11.5	11.2	11.0
	-5.0	13.4	13.3	12.8	11.2
	0.0	15.1	15.0	12.8	11.2
	2.5	16.0	15.8	12.8	11.2
	6.0	16.6	16.0	12.8	11.2
	7.5	17.2	16.0	12.8	11.2
	10.0	18.2	16.0	12.8	11.2
	12.5	19.3	16.0	12.8	11.2
	15.5	20.5	16.0	12.8	11.2

2.2a. Cooling capacity in combination with PUHY,PUY,PURY-P300,350,400YGM

PDFY-P-VM-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.8	2.2	1.8	2.4	1.8	2.5	1.9	2.5	2.0	2.7	1.9	2.9	1.9
	22.5	2.1	1.8	2.2	1.8	2.3	1.8	2.4	1.9	2.5	1.9	2.6	1.9	2.8	1.9
	25.0	2.1	1.8	2.2	1.8	2.3	1.8	2.4	1.9	2.4	1.9	2.6	1.9	2.8	1.9
	27.5	2.1	1.7	2.1	1.8	2.3	1.8	2.3	1.8	2.4	1.9	2.5	1.9	2.7	1.9
	30.0	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.8	2.4	1.9	2.5	1.9	2.6	1.8
	32.5	2.0	1.7	2.0	1.8	2.2	1.8	2.2	1.8	2.3	1.9	2.4	1.8	2.6	1.8
	35.0	2.0	1.7	2.0	1.7	2.1	1.7	2.2	1.8	2.3	1.9	2.4	1.8	2.5	1.8
	37.5	1.9	1.7	1.9	1.7	2.1	1.7	2.1	1.8	2.2	1.8	2.4	1.8	2.5	1.8
	40.0	1.9	1.7	1.9	1.7	2.0	1.7	2.1	1.7	2.4	1.9	2.3	1.8	2.4	1.8
	43.0	1.8	1.6	1.8	1.7	2.0	1.7	2.0	1.7	2.1	1.8	2.2	1.8	2.4	1.8
25 (2.8)	20.0	2.7	2.1	2.8	2.1	3.0	2.1	3.1	2.2	3.2	2.2	3.4	2.2	3.6	2.2
	22.5	2.7	2.1	2.8	2.1	3.0	2.1	3.1	2.1	3.2	2.2	3.4	2.2	3.6	2.2
	25.0	2.7	2.0	2.7	2.1	2.9	2.1	3.0	2.1	3.1	2.2	3.3	2.2	3.5	2.1
	27.5	2.6	2.0	2.7	2.1	2.9	2.1	3.0	2.1	3.1	2.2	3.2	2.1	3.4	2.1
	30.0	2.6	2.0	2.6	2.0	2.8	2.0	2.9	2.1	3.0	2.1	3.2	2.1	3.4	2.1
	32.5	2.5	2.0	2.6	2.0	2.8	2.0	2.9	2.0	2.9	2.1	3.1	2.1	3.3	2.1
	35.0	2.5	1.9	2.5	2.0	2.7	2.0	2.8	2.0	2.9	2.1	3.1	2.1	3.2	2.0
	37.5	2.5	1.9	2.5	2.0	2.6	2.0	2.7	2.0	2.8	2.1	3.0	2.1	3.2	2.0
	40.0	2.4	1.9	2.4	1.9	2.6	1.9	2.7	2.0	3.0	2.2	2.9	2.0	3.1	2.0
	43.0	2.4	1.9	2.4	1.9	2.5	1.9	2.6	1.9	2.7	2.0	2.8	2.0	3.0	2.0
32 (3.6)	20.0	3.5	2.5	3.6	2.6	3.9	2.6	4.0	2.6	4.2	2.7	4.4	2.7	4.7	2.6
	22.5	3.5	2.5	3.6	2.6	3.8	2.6	4.0	2.6	4.1	2.7	4.3	2.6	4.6	2.6
	25.0	3.4	2.5	3.5	2.5	3.8	2.5	3.9	2.5	4.0	2.6	4.2	2.6	4.5	2.6
	27.5	3.4	2.4	3.5	2.5	3.7	2.5	3.8	2.5	3.9	2.6	4.2	2.6	4.4	2.5
	30.0	3.3	2.4	3.4	2.5	3.6	2.5	3.7	2.5	3.9	2.6	4.1	2.5	4.3	2.5
	32.5	3.3	2.4	3.3	2.4	3.5	2.4	3.7	2.5	3.8	2.5	4.0	2.5	4.2	2.5
	35.0	3.2	2.4	3.3	2.4	3.5	2.4	3.6	2.4	3.7	2.5	3.9	2.5	4.2	2.4
	37.5	3.2	2.3	3.2	2.4	3.4	2.4	3.5	2.4	3.6	2.5	3.9	2.4	4.1	2.4
	40.0	3.1	2.3	3.1	2.3	3.3	2.3	3.4	2.4	3.9	2.6	3.8	2.4	4.0	2.4
	43.0	3.0	2.3	3.0	2.3	3.2	2.3	3.3	2.3	3.4	2.4	3.7	2.4	3.9	2.3
40 (4.5)	20.0	4.4	3.2	4.5	3.3	4.9	3.3	5.0	3.4	5.2	3.5	5.5	3.5	5.9	3.4
	22.5	4.3	3.2	4.5	3.3	4.8	3.3	5.0	3.4	5.1	3.5	5.4	3.4	5.7	3.4
	25.0	4.3	3.2	4.4	3.3	4.7	3.3	4.9	3.3	5.0	3.4	5.3	3.4	5.6	3.3
	27.5	4.2	3.2	4.3	3.2	4.6	3.2	4.8	3.3	4.9	3.4	5.2	3.4	5.5	3.3
	30.0	4.1	3.1	4.2	3.2	4.5	3.2	4.7	3.2	4.8	3.4	5.1	3.3	5.4	3.3
	32.5	4.1	3.1	4.2	3.2	4.4	3.2	4.6	3.2	4.7	3.3	5.0	3.3	5.3	3.2
	35.0	4.0	3.1	4.1	3.1	4.3	3.1	4.5	3.2	4.6	3.3	4.9	3.2	5.2	3.2
	37.5	4.0	3.0	4.0	3.1	4.3	3.1	4.4	3.1	4.5	3.3	4.8	3.2	5.1	3.2
	40.0	3.9	3.0	3.9	3.0	4.2	3.0	4.3	3.1	4.9	3.4	4.7	3.2	5.0	3.1
	43.0	3.8	3.0	3.8	3.0	4.1	3.0	4.2	3.0	4.3	3.2	4.6	3.1	4.8	3.1
50 (5.6)	20.0	5.4	4.0	5.6	4.1	6.0	4.1	6.3	4.2	6.5	4.4	6.9	4.3	7.3	4.2
	22.5	5.4	4.0	5.6	4.1	6.0	4.1	6.2	4.1	6.4	4.3	6.7	4.2	7.1	4.2
	25.0	5.3	4.0	5.5	4.1	5.9	4.0	6.0	4.1	6.2	4.3	6.6	4.2	7.0	4.1
	27.5	5.2	3.9	5.4	4.0	5.7	4.0	5.9	4.0	6.1	4.2	6.5	4.1	6.9	4.1
	30.0	5.2	3.9	5.3	4.0	5.6	3.9	5.8	4.0	6.0	4.2	6.4	4.1	6.7	4.0
	32.5	5.1	3.8	5.2	3.9	5.5	3.9	5.7	4.0	5.9	4.1	6.2	4.0	6.6	4.0
	35.0	5.0	3.8	5.1	3.9	5.4	3.8	5.6	3.9	5.8	4.1	6.1	4.0	6.5	3.9
	37.5	4.9	3.8	5.0	3.8	5.3	3.8	5.5	3.8	5.7	4.0	6.0	4.0	6.3	3.9
	40.0	4.8	3.7	4.8	3.8	5.2	3.7	5.3	3.8	6.1	4.2	5.9	3.9	6.2	3.8
	43.0	4.7	3.6	4.7	3.7	5.0	3.7	5.2	3.7	5.3	3.9	5.7	3.8	6.0	3.8
63 (7.1)	20.0	6.9	5.0	7.1	5.2	7.7	5.2	8.0	5.3	8.2	5.5	8.7	5.4	9.2	5.3
	22.5	6.9	5.0	7.1	5.2	7.6	5.1	7.8	5.2	8.1	5.4	8.5	5.3	9.1	5.2
	25.0	6.8	5.0	7.0	5.1	7.4	5.1	7.7	5.1	7.9	5.3	8.4	5.2	8.9	5.2
	27.5	6.6	4.9	6.8	5.0	7.3	5.0	7.5	5.1	7.8	5.3	8.2	5.2	8.7	5.1
	30.0	6.5	4.8	6.7	5.0	7.1	4.9	7.4	5.0	7.6	5.2	8.1	5.1	8.5	5.0
	32.5	6.4	4.8	6.6	4.9	7.0	4.9	7.2	4.9	7.5	5.1	7.9	5.1	8.4	5.0
	35.0	6.3	4.7	6.4	4.8	6.8	4.8	7.1	4.9	7.3	5.1	7.7	5.0	8.2	4.9
	37.5	6.2	4.7	6.3	4.8	6.7	4.7	6.9	4.8	7.2	5.0	7.6	4.9	8.0	4.9
	40.0	6.1	4.6	6.1	4.7	6.6	4.7	6.8	4.8	7.7	5.2	7.4	4.9	7.8	4.8
	43.0	6.0	4.6	6.0	4.6	6.4	4.6	6.6	4.7	6.8	4.9	7.2	4.8	7.6	4.7
71 (8.0)	20.0	7.8	5.7	8.0	5.9	8.6	5.8	9.0	5.9	9.2	6.2	9.8	6.1	10.4	6.0
	22.5	7.7	5.7	8.0	5.8	8.5	5.8	8.8	5.9	9.1	6.1	9.6	6.0	10.2	5.9
	25.0	7.6	5.6	7.8	5.8	8.4	5.7	8.6	5.8	8.9	6.0	9.4	5.9	10.0	5.8
	27.5	7.5	5.5	7.7	5.7	8.2	5.6	8.5	5.7	8.7	5.9	9.3	5.9	9.8	5.8
	30.0	7.4	5.5	7.5	5.6	8.0	5.6	8.3	5.7	8.6	5.9	9.1	5.8	9.6	5.7
	32.5	7.2	5.4	7.4	5.5	7.9	5.5	8.2	5.6	8.4	5.8	8.9	5.7	9.4	5.6
	35.0	7.1	5.4	7.2	5.5	7.7	5.4	8.0	5.5	8.2	5.7	8.7	5.7	9.2	5.6
	37.5	7.0	5.3	7.1	5.4	7.6	5.4	7.8	5.4	8.1	5.7	8.6	5.6	9.1	5.5
	40.0	6.9	5.3	6.9	5.3	7.4	5.3	7.6	5.4	8.7	5.9	8.4	5.5	8.8	5.4
	43.0	6.7	5.2	6.7	5.2	7.2	5.2	7.4	5.3	7.6	5.5	8.1	5.4	8.6	5.3

Cooling capacity in combination with PUHY,PUY,PURY-P300,350,400YGM

PDFY-P-VM-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
80 (9.0)	20.0	8.7	6.2	9.0	6.4	9.7	6.4	10.1	6.5	10.4	6.7	11.0	6.6	11.7	6.5
	22.5	8.7	6.2	9.0	6.4	9.6	6.3	9.9	6.4	10.2	6.6	10.8	6.5	11.5	6.4
	25.0	8.6	6.1	8.8	6.3	9.4	6.2	9.7	6.3	10.0	6.6	10.6	6.5	11.3	6.4
	27.5	8.4	6.1	8.6	6.2	9.2	6.2	9.5	6.2	9.8	6.5	10.4	6.4	11.0	6.3
	30.0	8.3	6.0	8.5	6.1	9.0	6.1	9.4	6.2	9.6	6.4	10.3	6.3	10.8	6.2
	32.5	8.1	5.9	8.3	6.0	8.9	6.0	9.2	6.1	9.5	6.3	10.0	6.2	10.6	6.1
	35.0	8.0	5.8	8.1	6.0	8.6	5.9	9.0	6.0	9.3	6.2	9.8	6.1	10.4	6.0
	37.5	7.9	5.8	8.0	5.9	8.5	5.8	8.8	5.9	9.1	6.2	9.6	6.1	10.2	6.0
	40.0	7.8	5.7	7.8	5.8	8.3	5.7	8.6	5.8	9.8	6.4	9.4	6.0	9.9	5.9
	43.0	7.6	5.6	7.6	5.7	8.1	5.6	8.4	5.7	8.6	5.9	9.1	5.9	9.7	5.8
100 (11.2)	20.0	10.9	7.8	11.3	8.0	12.1	8.0	12.5	8.2	12.9	8.5	13.7	8.3	14.6	8.2
	22.5	10.8	7.8	11.2	8.0	11.9	8.0	12.3	8.1	12.7	8.4	13.5	8.2	14.3	8.1
	25.0	10.7	7.7	11.0	7.9	11.7	7.8	12.1	8.0	12.5	8.2	13.2	8.1	14.0	8.0
	27.5	10.5	7.6	10.8	7.8	11.5	7.7	11.9	7.9	12.2	8.1	13.0	8.0	13.7	7.9
	30.0	10.3	7.5	10.5	7.7	11.3	7.6	11.6	7.8	12.0	8.0	12.8	8.0	13.4	7.8
	32.5	10.1	7.4	10.4	7.6	11.0	7.5	11.4	7.7	11.8	7.9	12.4	7.8	13.2	7.7
	35.0	10.0	7.3	10.1	7.5	10.8	7.4	11.2	7.6	11.5	7.8	12.2	7.7	12.9	7.6
	37.5	9.9	7.3	9.9	7.4	10.6	7.3	10.9	7.4	11.3	7.7	12.0	7.6	12.7	7.5
	40.0	9.7	7.2	9.7	7.3	10.4	7.2	10.7	7.3	12.2	8.1	11.7	7.5	12.4	7.4
	43.0	9.4	7.1	9.4	7.1	10.1	7.1	10.4	7.2	10.7	7.5	11.4	7.4	12.0	7.3
125 (14.0)	20.0	13.6	9.9	14.1	10.2	15.1	10.2	15.7	10.3	16.2	10.7	17.2	10.6	18.2	10.4
	22.5	13.5	9.8	14.0	10.2	14.9	10.1	15.4	10.2	15.9	10.6	16.8	10.5	17.9	10.3
	25.0	13.4	9.8	13.7	10.0	14.6	9.9	15.1	10.1	15.6	10.5	16.5	10.3	17.5	10.2
	27.5	13.1	9.6	13.4	9.9	14.4	9.8	14.8	10.0	15.3	10.3	16.2	10.2	17.2	10.0
	30.0	12.9	9.5	13.2	9.7	14.1	9.7	14.6	9.9	15.0	10.2	16.0	10.1	16.8	9.9
	32.5	12.7	9.4	13.0	9.6	13.8	9.6	14.3	9.7	14.7	10.1	15.5	9.9	16.5	9.8
	35.0	12.5	9.3	12.7	9.5	13.4	9.4	14.0	9.6	14.4	10.0	15.3	9.8	16.2	9.7
	37.5	12.3	9.3	12.4	9.4	13.2	9.3	13.7	9.5	14.1	9.9	15.0	9.7	15.8	9.6
	40.0	12.1	9.1	12.1	9.2	13.0	9.2	13.4	9.3	15.2	10.3	14.6	9.6	15.5	9.4
	43.0	11.8	9.0	11.8	9.1	12.6	9.0	13.0	9.2	13.4	9.5	14.2	9.4	15.1	9.3

2.2b. Heating capacity in combination with PUHY,PUY,PURY-P300,350,400YGM

PDFY-P-VM-E

SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
20 (2.2)	-20.0	1.3	1.3	1.3	1.2
	-15.0	1.5	1.5	1.5	1.5
	-10.0	1.8	1.8	1.7	1.6
	-5.0	2.0	2.0	1.9	1.6
	0.0	2.3	2.3	1.9	1.6
	2.5	2.4	2.4	1.9	1.6
	6.0	2.6	2.5	1.9	1.6
	7.5	2.7	2.5	1.9	1.6
	10.0	2.8	2.5	1.9	1.6
	12.5	2.9	2.5	1.9	1.6
	15.5	2.9	2.5	1.9	1.6
25 (2.8)	-20.0	1.7	1.6	1.6	1.5
	-15.0	1.9	1.9	1.9	1.9
	-10.0	2.2	2.2	2.2	2.0
	-5.0	2.6	2.6	2.4	2.0
	0.0	2.9	2.9	2.4	2.0
	2.5	3.1	3.0	2.4	2.0
	6.0	3.3	3.2	2.4	2.0
	7.5	3.4	3.2	2.4	2.0
	10.0	3.5	3.2	2.4	2.0
	12.5	3.7	3.2	2.4	2.0
	15.5	3.7	3.2	2.4	2.0
32 (3.6)	-20.0	2.1	2.0	2.0	1.9
	-15.0	2.4	2.4	2.4	2.3
	-10.0	2.8	2.8	2.7	2.6
	-5.0	3.2	3.2	3.0	2.6
	0.0	3.6	3.6	3.0	2.6
	2.5	3.8	3.8	3.0	2.6
	6.0	4.1	4.0	3.0	2.6
	7.5	4.2	4.0	3.0	2.6
	10.0	4.4	4.0	3.0	2.6
	12.5	4.6	4.0	3.0	2.6
	15.5	4.6	4.0	3.0	2.6
40 (4.5)	-20.0	2.6	2.5	2.5	2.4
	-15.0	3.0	3.0	3.0	2.9
	-10.0	3.5	3.5	3.4	3.2
	-5.0	4.0	4.0	3.8	3.2
	0.0	4.5	4.5	3.8	3.2
	2.5	4.8	4.7	3.8	3.2
	6.0	5.1	5.0	3.8	3.2
	7.5	5.3	5.0	3.8	3.2
	10.0	5.5	5.0	3.8	3.2
	12.5	5.8	5.0	3.8	3.2
	15.5	5.8	5.0	3.8	3.2
50 (5.6)	-20.0	3.3	3.2	3.2	3.0
	-15.0	3.8	3.8	3.8	3.7
	-10.0	4.4	4.4	4.3	4.0
	-5.0	5.0	5.0	4.7	4.0
	0.0	5.7	5.7	4.7	4.0
	2.5	6.0	6.0	4.7	4.0
	6.0	6.5	6.3	4.7	4.0
	7.5	6.7	6.3	4.7	4.0
	10.0	7.0	6.3	4.7	4.0
	12.5	7.2	6.3	4.7	4.0
	15.5	7.2	6.3	4.7	4.0
63 (7.1)	-20.0	4.2	4.0	4.0	3.8
	-15.0	4.8	4.8	4.8	4.6
	-10.0	5.6	5.6	5.5	5.1
	-5.0	6.4	6.4	6.0	5.1
	0.0	7.2	7.2	6.0	5.1
	2.5	7.6	7.6	6.0	5.1
	6.0	8.2	8.0	6.0	5.1
	7.5	8.5	8.0	6.0	5.1
	10.0	8.8	8.0	6.0	5.1
	12.5	9.2	8.0	6.0	5.1
	15.5	9.2	8.0	6.0	5.1
71 (8.0)	-20.0	4.7	4.5	4.5	4.3
	-15.0	5.4	5.4	5.4	5.2
	-10.0	6.3	6.3	6.2	5.8
	-5.0	7.2	7.2	6.8	5.8
	0.0	8.1	8.1	6.8	5.8
	2.5	8.6	8.5	6.8	5.8
	6.0	9.2	9.0	6.8	5.8
	7.5	9.5	9.0	6.8	5.8
	10.0	9.9	9.0	6.8	5.8
	12.5	10.4	9.0	6.8	5.8
	15.5	10.4	9.0	6.8	5.8

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
80 (9.0)	-20.0	5.2	5.0	5.0	4.8
	-15.0	6.0	6.0	6.0	5.8
	-10.0	7.0	7.0	6.9	6.4
	-5.0	8.0	8.0	7.5	6.4
	0.0	9.0	9.0	7.5	6.4
	2.5	9.6	9.5	7.5	6.4
	6.0	10.3	10.0	7.5	6.4
	7.5	10.6	10.0	7.5	6.4
	10.0	11.1	10.0	7.5	6.4
	12.5	11.5	10.0	7.5	6.4
	15.5	11.5	10.0	7.5	6.4
100 (11.2)	-20.0	6.5	6.3	6.3	6.0
	-15.0	7.5	7.5	7.5	7.3
	-10.0	8.8	8.8	8.6	8.0
	-5.0	10.0	10.0	9.4	8.0
	0.0	11.3	11.3	9.4	8.0
	2.5	11.9	11.8	9.4	8.0
	6.0	12.8	12.5	9.4	8.0
	7.5	13.3	12.5	9.4	8.0
	10.0	13.8	12.5	9.4	8.0
	12.5	14.4	12.5	9.4	8.0
	15.5	14.4	12.5	9.4	8.0
125 (14.0)	-20.0	8.3	8.0	8.0	7.7
	-15.0	9.6	9.6	9.6	9.3
	-10.0	11.2	11.2	11.0	10.2
	-5.0	12.8	12.8	12.0	10.2
	0.0	14.4	14.4	12.0	10.2
	2.5	15.3	15.1	12.0	10.2
	6.0	16.4	16.0	12.0	10.2
	7.5	17.0	16.0	12.0	10.2
	10.0	17.7	16.0	12.0	10.2
	12.5	18.4	16.0	12.0	10.2
	15.5	18.4	16.0	12.0	10.2

2.3a. Cooling capacity in combination with PUHY,PURY-P450,500,550,600,650YGM

PDFY-P-VM-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.8	2.1	1.8	2.3	1.8	2.4	1.8	2.5	1.9	2.6	1.9	2.8	1.9
	22.5	2.1	1.7	2.1	1.8	2.3	1.8	2.3	1.8	2.4	1.9	2.6	1.9	2.7	1.9
	25.0	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.8	2.4	1.9	2.6	1.9	2.7	1.9
	27.5	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.8	2.4	1.9	2.5	1.9	2.6	1.8
	30.0	2.0	1.7	2.0	1.8	2.2	1.8	2.3	1.8	2.4	1.9	2.5	1.9	2.7	1.8
	32.5	2.0	1.7	2.0	1.8	2.2	1.8	2.2	1.8	2.3	1.9	2.5	1.9	2.6	1.8
	35.0	2.0	1.7	2.0	1.7	2.1	1.7	2.2	1.8	2.3	1.9	2.5	1.9	2.6	1.8
	37.5	1.9	1.7	2.0	1.7	2.1	1.7	2.2	1.8	2.3	1.9	2.4	1.8	2.6	1.8
	40.0	1.9	1.7	1.9	1.7	2.1	1.7	2.1	1.8	2.2	1.8	2.4	1.8	2.6	1.8
	43.0	1.9	1.7	1.9	1.7	2.1	1.7	2.1	1.7	2.2	1.8	2.4	1.8	2.6	1.8
25 (2.8)	20.0	2.6	2.0	2.7	2.1	2.9	2.1	3.0	2.1	3.1	2.2	3.3	2.2	3.5	2.1
	22.5	2.6	2.0	2.7	2.1	2.9	2.1	3.0	2.1	3.1	2.2	3.3	2.2	3.5	2.1
	25.0	2.6	2.0	2.7	2.1	2.9	2.0	2.9	2.1	3.1	2.2	3.2	2.1	3.5	2.1
	27.5	2.6	2.0	2.6	2.0	2.8	2.0	2.9	2.1	3.0	2.2	3.2	2.1	3.4	2.1
	30.0	2.5	2.0	2.6	2.0	2.8	2.0	2.9	2.1	3.0	2.1	3.2	2.1	3.4	2.1
	32.5	2.5	2.0	2.6	2.0	2.7	2.0	2.8	2.0	3.0	2.1	3.2	2.1	3.4	2.1
	35.0	2.5	1.9	2.5	2.0	2.7	2.0	2.8	2.0	2.9	2.1	3.1	2.1	3.3	2.1
	37.5	2.5	1.9	2.5	2.0	2.7	2.0	2.8	2.0	2.9	2.1	3.1	2.1	3.3	2.1
	40.0	2.4	1.9	2.5	2.0	2.7	2.0	2.7	2.0	2.9	2.1	3.1	2.1	3.3	2.1
	43.0	2.4	1.9	2.5	2.0	2.6	1.9	2.7	2.0	2.8	2.1	3.0	2.1	3.2	2.0
32 (3.6)	20.0	3.4	2.5	3.5	2.5	3.7	2.5	3.9	2.5	4.0	2.6	4.2	2.6	4.5	2.6
	22.5	3.4	2.4	3.5	2.5	3.7	2.5	3.8	2.5	4.0	2.6	4.2	2.6	4.5	2.6
	25.0	3.3	2.4	3.4	2.5	3.7	2.5	3.8	2.5	3.9	2.6	4.2	2.6	4.4	2.5
	27.5	3.3	2.4	3.4	2.5	3.6	2.5	3.7	2.5	3.9	2.6	4.1	2.6	4.3	2.5
	30.0	3.3	2.4	3.3	2.4	3.6	2.4	3.7	2.5	3.9	2.6	4.1	2.5	4.4	2.5
	32.5	3.2	2.4	3.3	2.4	3.5	2.4	3.6	2.4	3.8	2.6	4.1	2.5	4.3	2.5
	35.0	3.2	2.4	3.3	2.4	3.5	2.4	3.6	2.4	3.7	2.5	4.0	2.5	4.3	2.5
	37.5	3.2	2.3	3.2	2.4	3.5	2.4	3.5	2.4	3.7	2.5	4.0	2.5	4.2	2.5
	40.0	3.1	2.3	3.2	2.4	3.4	2.4	3.5	2.4	3.7	2.5	4.0	2.5	4.2	2.5
	43.0	3.1	2.3	3.2	2.3	3.4	2.3	3.5	2.4	3.6	2.5	3.9	2.5	4.2	2.4
40 (4.5)	20.0	4.3	3.2	4.4	3.3	4.7	3.3	4.8	3.3	5.0	3.5	5.3	3.4	5.7	3.4
	22.5	4.2	3.2	4.3	3.3	4.6	3.2	4.8	3.3	5.0	3.4	5.3	3.4	5.6	3.3
	25.0	4.2	3.2	4.3	3.2	4.6	3.2	4.7	3.3	4.9	3.4	5.2	3.4	5.6	3.3
	27.5	4.1	3.1	4.2	3.2	4.5	3.2	4.7	3.2	4.9	3.4	5.2	3.4	5.4	3.3
	30.0	4.1	3.1	4.2	3.2	4.5	3.2	4.6	3.2	4.8	3.4	5.1	3.3	5.4	3.3
	32.5	4.1	3.1	4.1	3.2	4.4	3.1	4.5	3.2	4.8	3.3	5.1	3.3	5.4	3.3
	35.0	4.0	3.1	4.1	3.1	4.4	3.1	4.5	3.2	4.7	3.3	5.0	3.3	5.4	3.3
	37.5	4.0	3.0	4.0	3.1	4.3	3.1	4.4	3.1	4.7	3.3	5.0	3.3	5.3	3.2
	40.0	3.9	3.0	4.0	3.1	4.3	3.1	4.4	3.1	4.6	3.3	5.0	3.3	5.3	3.2
	43.0	3.9	3.0	3.9	3.1	4.2	3.1	4.3	3.1	4.5	3.3	4.9	3.2	5.2	3.2
50 (5.6)	20.0	5.3	3.9	5.5	4.0	5.8	4.0	6.0	4.1	6.2	4.3	6.6	4.2	7.1	4.1
	22.5	5.3	3.9	5.4	4.0	5.8	4.0	5.9	4.0	6.2	4.2	6.6	4.2	7.0	4.1
	25.0	5.2	3.9	5.3	4.0	5.7	4.0	5.9	4.0	6.1	4.2	6.5	4.1	6.9	4.1
	27.5	5.2	3.9	5.3	4.0	5.7	3.9	5.8	4.0	6.0	4.2	6.4	4.1	6.7	4.0
	30.0	5.1	3.8	5.2	3.9	5.6	3.9	5.8	4.0	6.0	4.2	6.4	4.1	6.8	4.0
	32.5	5.0	3.8	5.2	3.9	5.5	3.9	5.7	3.9	5.9	4.1	6.3	4.1	6.7	4.0
	35.0	5.0	3.8	5.1	3.9	5.5	3.9	5.6	3.9	5.8	4.1	6.3	4.1	6.7	4.0
	37.5	4.9	3.8	5.0	3.8	5.4	3.8	5.5	3.9	5.8	4.1	6.2	4.0	6.6	4.0
	40.0	4.8	3.7	5.0	3.8	5.3	3.8	5.4	3.8	5.7	4.0	6.2	4.0	6.6	4.0
	43.0	4.8	3.7	4.9	3.8	5.3	3.8	5.4	3.8	5.7	4.0	6.0	4.0	6.5	3.9
63 (7.1)	20.0	6.7	4.9	6.9	5.1	7.4	5.0	7.6	5.1	7.9	5.3	8.4	5.2	8.9	5.2
	22.5	6.7	4.9	6.9	5.0	7.3	5.0	7.5	5.1	7.8	5.3	8.3	5.2	8.8	5.2
	25.0	6.6	4.9	6.8	5.0	7.2	5.0	7.5	5.0	7.7	5.3	8.2	5.2	8.8	5.1
	27.5	6.5	4.8	6.7	5.0	7.2	4.9	7.4	5.0	7.7	5.2	8.2	5.2	8.5	5.0
	30.0	6.5	4.8	6.6	4.9	7.1	4.9	7.3	5.0	7.6	5.2	8.1	5.1	8.6	5.1
	32.5	6.4	4.8	6.5	4.9	7.0	4.8	7.2	4.9	7.5	5.2	8.0	5.1	8.5	5.0
	35.0	6.3	4.7	6.4	4.8	6.9	4.8	7.1	4.9	7.4	5.1	8.0	5.1	8.4	5.0
	37.5	6.2	4.7	6.4	4.8	6.8	4.8	7.0	4.8	7.3	5.1	7.8	5.0	8.4	5.0
	40.0	6.1	4.6	6.3	4.8	6.8	4.8	6.9	4.8	7.2	5.0	7.8	5.0	8.3	5.0
	43.0	6.1	4.6	6.2	4.7	6.7	4.7	6.8	4.8	7.2	5.0	7.7	5.0	8.2	4.9
71 (8.0)	20.0	7.6	5.6	7.8	5.7	8.3	5.7	8.6	5.8	8.9	6.0	9.4	5.9	10.1	5.9
	22.5	7.5	5.6	7.7	5.7	8.2	5.7	8.5	5.7	8.8	6.0	9.4	5.9	10.0	5.8
	25.0	7.4	5.5	7.6	5.7	8.2	5.6	8.4	5.7	8.7	5.9	9.3	5.9	9.9	5.8
	27.5	7.4	5.5	7.5	5.6	8.1	5.6	8.3	5.7	8.6	5.9	9.2	5.8	9.6	5.7
	30.0	7.3	5.4	7.4	5.6	8.0	5.6	8.2	5.6	8.6	5.9	9.1	5.8	9.7	5.7
	32.5	7.2	5.4	7.4	5.5	7.8	5.5	8.1	5.6	8.5	5.8	9.0	5.8	9.6	5.7
	35.0	7.1	5.4	7.2	5.5	7.8	5.5	8.0	5.5	8.3	5.8	9.0	5.7	9.5	5.7
	37.5	7.0	5.3	7.2	5.4	7.7	5.4	7.9	5.5	8.3	5.8	8.8	5.7	9.4	5.6
	40.0	6.9	5.3	7.1	5.4	7.6	5.4	7.8	5.4	8.2	5.7	8.8	5.7	9.4	5.6
	43.0	6.9	5.2	7.0	5.3	7.5	5.3	7.7	5.4	8.1	5.7	8.6	5.6	9.3	5.6

Cooling capacity in combination with PUHY,PURY-P450,500,550,600,650YGM

PDFY-P-VM-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
80 (9.0)	20.0	8.5	6.1	8.8	6.3	9.4	6.2	9.6	6.3	10.0	6.6	10.6	6.5	11.3	6.4
	22.5	8.5	6.1	8.7	6.2	9.3	6.2	9.5	6.2	9.9	6.5	10.6	6.4	11.2	6.3
	25.0	8.4	6.0	8.6	6.2	9.2	6.1	9.5	6.2	9.8	6.5	10.4	6.4	11.1	6.3
	27.5	8.3	6.0	8.5	6.1	9.1	6.1	9.4	6.2	9.7	6.4	10.4	6.4	10.8	6.2
	30.0	8.2	5.9	8.4	6.1	9.0	6.1	9.3	6.1	9.6	6.4	10.3	6.3	10.9	6.2
	32.5	8.1	5.9	8.3	6.0	8.8	6.0	9.1	6.0	9.5	6.3	10.2	6.3	10.8	6.2
	35.0	8.0	5.8	8.1	6.0	8.8	6.0	9.0	6.0	9.4	6.3	10.1	6.2	10.7	6.2
	37.5	7.9	5.8	8.1	5.9	8.6	5.9	8.9	6.0	9.3	6.3	9.9	6.2	10.6	6.1
	40.0	7.8	5.7	8.0	5.9	8.6	5.9	8.7	5.9	9.2	6.2	9.9	6.2	10.5	6.1
	43.0	7.7	5.7	7.9	5.8	8.5	5.8	8.6	5.9	9.1	6.2	9.7	6.1	10.4	6.1
100 (11.2)	20.0	10.6	7.7	10.9	7.9	11.6	7.8	12.0	7.9	12.5	8.3	13.2	8.1	14.1	8.0
	22.5	10.5	7.6	10.8	7.8	11.5	7.8	11.9	7.9	12.3	8.2	13.2	8.1	13.9	8.0
	25.0	10.4	7.6	10.7	7.8	11.4	7.7	11.8	7.8	12.2	8.1	13.0	8.0	13.8	7.9
	27.5	10.3	7.5	10.5	7.7	11.3	7.7	11.6	7.8	12.1	8.1	12.9	8.0	13.4	7.8
	30.0	10.2	7.5	10.4	7.6	11.2	7.6	11.5	7.7	12.0	8.0	12.8	8.0	13.6	7.8
	32.5	10.1	7.4	10.3	7.6	11.0	7.5	11.3	7.6	11.9	8.0	12.7	7.9	13.4	7.8
	35.0	10.0	7.3	10.1	7.5	10.9	7.5	11.2	7.6	11.6	7.9	12.5	7.9	13.3	7.8
	37.5	9.9	7.3	10.0	7.4	10.8	7.4	11.0	7.5	11.6	7.9	12.4	7.8	13.2	7.7
	40.0	9.7	7.2	9.9	7.4	10.7	7.4	10.9	7.4	11.4	7.8	12.3	7.8	13.1	7.7
	43.0	9.6	7.2	9.8	7.3	10.5	7.3	10.8	7.4	11.3	7.7	12.1	7.7	13.0	7.6
125 (14.0)	20.0	13.2	9.7	13.7	10.0	14.6	9.9	15.0	10.0	15.6	10.5	16.5	10.3	17.6	10.2
	22.5	13.2	9.7	13.5	9.9	14.4	9.9	14.8	10.0	15.4	10.4	16.5	10.3	17.4	10.1
	25.0	13.0	9.6	13.4	9.8	14.3	9.8	14.7	9.9	15.3	10.3	16.2	10.2	17.3	10.1
	27.5	12.9	9.5	13.2	9.7	14.1	9.7	14.6	9.9	15.1	10.3	16.1	10.2	16.8	9.9
	30.0	12.7	9.5	13.0	9.7	14.0	9.7	14.4	9.8	15.0	10.2	16.0	10.1	16.9	10.0
	32.5	12.6	9.4	12.9	9.6	13.7	9.5	14.1	9.7	14.8	10.2	15.8	10.0	16.8	9.9
	35.0	12.5	9.3	12.7	9.5	13.7	9.5	14.0	9.6	14.6	10.0	15.7	10.0	16.7	9.9
	37.5	12.3	9.3	12.6	9.5	13.4	9.4	13.8	9.5	14.5	10.0	15.5	9.9	16.5	9.8
	40.0	12.1	9.1	12.4	9.4	13.4	9.4	13.6	9.4	14.3	9.9	15.4	9.9	16.4	9.8
	43.0	12.0	9.1	12.3	9.3	13.2	9.3	13.4	9.4	14.1	9.9	15.1	9.8	16.2	9.7

2.3b. Heating capacity in combination with PUHY,PURY-P450,500,550,600,650YGM

PDFY-P-VM-E

SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
20 (2.2)	-20.0	1.3	1.3	1.3	1.3
	-15.0	1.6	1.5	1.5	1.5
	-10.0	1.8	1.8	1.7	1.7
	-5.0	2.1	2.0	1.9	1.8
	0.0	2.3	2.3	2.0	1.8
	2.5	2.4	2.4	2.0	1.8
	6.0	2.6	2.5	2.0	1.8
	7.5	2.7	2.5	2.0	1.8
	10.0	2.8	2.5	2.0	1.8
	12.5	2.9	2.5	2.0	1.8
	15.5	2.9	2.5	2.0	1.8
25 (2.8)	-20.0	1.7	1.6	1.6	1.6
	-15.0	2.0	1.9	1.9	1.9
	-10.0	2.3	2.2	2.2	2.1
	-5.0	2.6	2.6	2.5	2.3
	0.0	2.9	2.9	2.5	2.3
	2.5	3.1	3.0	2.5	2.3
	6.0	3.3	3.2	2.5	2.3
	7.5	3.4	3.2	2.5	2.3
	10.0	3.6	3.2	2.5	2.3
	12.5	3.7	3.2	2.5	2.3
	15.5	3.7	3.2	2.5	2.3
32 (3.6)	-20.0	2.1	2.0	2.0	2.0
	-15.0	2.5	2.4	2.4	2.3
	-10.0	2.9	2.8	2.7	2.6
	-5.0	3.3	3.2	3.1	2.8
	0.0	3.7	3.6	3.2	2.8
	2.5	3.8	3.8	3.2	2.8
	6.0	4.1	4.0	3.2	2.8
	7.5	4.2	4.0	3.2	2.8
	10.0	4.4	4.0	3.2	2.8
	12.5	4.6	4.0	3.2	2.8
	15.5	4.6	4.0	3.2	2.8
40 (4.5)	-20.0	2.7	2.6	2.6	2.5
	-15.0	3.1	3.0	3.0	2.9
	-10.0	3.6	3.5	3.4	3.3
	-5.0	4.1	4.0	3.9	3.5
	0.0	4.6	4.5	4.0	3.5
	2.5	4.8	4.8	4.0	3.5
	6.0	5.2	5.0	4.0	3.5
	7.5	5.3	5.0	4.0	3.5
	10.0	5.6	5.0	4.0	3.5
	12.5	5.8	5.0	4.0	3.5
	15.5	5.8	5.0	4.0	3.5
50 (5.6)	-20.0	3.3	3.2	3.2	3.2
	-15.0	3.9	3.8	3.8	3.7
	-10.0	4.5	4.4	4.3	4.2
	-5.0	5.2	5.0	4.9	4.4
	0.0	5.8	5.7	5.0	4.4
	2.5	6.0	6.0	5.0	4.4
	6.0	6.5	6.3	5.0	4.4
	7.5	6.7	6.3	5.0	4.4
	10.0	7.0	6.3	5.0	4.4
	12.5	7.3	6.3	5.0	4.4
	15.5	7.3	6.3	5.0	4.4
63 (7.1)	-20.0	4.2	4.1	4.1	4.0
	-15.0	5.0	4.8	4.8	4.6
	-10.0	5.8	5.6	5.4	5.3
	-5.0	6.6	6.4	6.2	5.6
	0.0	7.4	7.2	6.4	5.6
	2.5	7.7	7.6	6.4	5.6
	6.0	8.2	8.0	6.4	5.6
	7.5	8.5	8.0	6.4	5.6
	10.0	8.9	8.0	6.4	5.6
	12.5	9.3	8.0	6.4	5.6
	15.5	9.3	8.0	6.4	5.6
71 (8.0)	-20.0	4.8	4.6	4.6	4.5
	-15.0	5.6	5.4	5.4	5.2
	-10.0	6.5	6.3	6.1	5.9
	-5.0	7.4	7.2	6.9	6.3
	0.0	8.3	8.1	7.2	6.3
	2.5	8.6	8.6	7.2	6.3
	6.0	9.3	9.0	7.2	6.3
	7.5	9.5	9.0	7.2	6.3
	10.0	10.0	9.0	7.2	6.3
	12.5	10.4	9.0	7.2	6.3
	15.5	10.4	9.0	7.2	6.3

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
80 (9.0)	-20.0	5.3	5.1	5.1	5.0
	-15.0	6.3	6.1	6.0	5.8
	-10.0	7.2	7.0	6.8	6.6
	-5.0	8.2	8.0	7.7	7.1
	0.0	9.2	9.0	8.0	7.1
	2.5	9.6	9.5	8.0	7.1
	6.0	10.3	10.0	8.0	7.1
	7.5	10.6	10.0	8.0	7.1
	10.0	11.1	10.0	8.0	7.1
	12.5	11.6	10.0	8.0	7.1
	15.5	11.6	10.0	8.0	7.1
100 (11.2)	-20.0	6.6	6.4	6.4	6.3
	-15.0	7.8	7.6	7.5	7.3
	-10.0	9.0	8.8	8.5	8.3
	-5.0	10.3	10.0	9.6	8.8
	0.0	11.5	11.3	9.9	8.8
	2.5	12.0	11.9	9.9	8.8
	6.0	12.9	12.5	9.9	8.8
	7.5	13.3	12.5	9.9	8.8
	10.0	13.9	12.5	9.9	8.8
	12.5	14.5	12.5	9.9	8.8
	15.5	14.5	12.5	9.9	8.8
125 (14.0)	-20.0	8.5	8.2	8.2	8.0
	-15.0	10.0	9.7	9.6	9.3
	-10.0	11.5	11.2	10.9	10.6
	-5.0	13.1	12.8	12.3	11.3
	0.0	14.7	14.4	12.7	11.3
	2.5	15.4	15.2	12.7	11.3
	6.0	16.5	16.0	12.7	11.3
	7.5	17.0	16.0	12.7	11.3
	10.0	17.8	16.0	12.7	11.3
	12.5	18.6	16.0	12.7	11.3
	15.5	18.6	16.0	12.7	11.3

2.4a. Cooling capacity in combination with PUHY-P700,750,800YSGM

PDFY-P-VM-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.8	2.2	1.8	2.4	1.8	2.4	1.9	2.5	2.0	2.7	1.9	2.9	1.9
	22.5	2.1	1.8	2.2	1.8	2.3	1.8	2.4	1.9	2.5	1.9	2.7	1.9	2.8	1.9
	25.0	2.1	1.7	2.1	1.8	2.3	1.8	2.4	1.8	2.4	1.9	2.6	1.9	2.8	1.9
	27.5	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.8	2.4	1.9	2.6	1.9	2.7	1.9
	30.0	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.8	2.4	1.9	2.5	1.9	2.7	1.9
	32.5	1.9	1.7	2.0	1.8	2.2	1.8	2.2	1.8	2.3	1.9	2.5	1.9	2.6	1.8
	35.0	1.9	1.7	2.0	1.7	2.1	1.7	2.2	1.8	2.3	1.9	2.4	1.8	2.6	1.8
	37.5	1.9	1.7	2.0	1.7	2.1	1.7	2.2	1.8	2.2	1.8	2.4	1.8	2.5	1.8
	40.0	1.8	1.6	1.9	1.7	2.0	1.7	2.1	1.7	2.2	1.8	2.3	1.8	2.5	1.8
	43.0	1.8	1.6	1.8	1.7	2.0	1.7	2.1	1.7	2.1	1.8	2.3	1.8	2.4	1.8
25 (2.8)	20.0	2.7	2.1	2.8	2.1	3.0	2.1	3.1	2.2	3.2	2.2	3.4	2.2	3.7	2.2
	22.5	2.7	2.0	2.8	2.1	3.0	2.1	3.1	2.1	3.2	2.2	3.4	2.2	3.6	2.2
	25.0	2.6	2.0	2.7	2.1	2.9	2.1	3.0	2.1	3.1	2.2	3.3	2.2	3.5	2.1
	27.5	2.6	2.0	2.7	2.1	2.9	2.0	3.0	2.1	3.1	2.2	3.3	2.2	3.5	2.1
	30.0	2.5	2.0	2.6	2.0	2.8	2.0	2.9	2.1	3.0	2.1	3.2	2.1	3.4	2.1
	32.5	2.5	1.9	2.6	2.0	2.7	2.0	2.8	2.0	2.9	2.1	3.1	2.1	3.3	2.1
	35.0	2.4	1.9	2.5	2.0	2.7	2.0	2.8	2.0	2.9	2.1	3.1	2.1	3.3	2.1
	37.5	2.4	1.9	2.5	2.0	2.6	2.0	2.7	2.0	2.8	2.1	3.0	2.1	3.2	2.0
	40.0	2.4	1.9	2.4	1.9	2.6	1.9	2.7	2.0	2.8	2.1	3.0	2.0	3.2	2.0
	43.0	2.3	1.9	2.4	1.9	2.5	1.9	2.6	1.9	2.7	2.0	2.9	2.0	3.1	2.0
32 (3.6)	20.0	3.5	2.5	3.6	2.6	3.9	2.6	4.0	2.6	4.1	2.7	4.4	2.7	4.7	2.6
	22.5	3.4	2.5	3.5	2.5	3.8	2.5	3.9	2.6	4.1	2.7	4.4	2.7	4.6	2.6
	25.0	3.4	2.4	3.5	2.5	3.7	2.5	3.9	2.5	4.0	2.6	4.2	2.6	4.5	2.6
	27.5	3.3	2.4	3.4	2.5	3.7	2.5	3.8	2.5	3.9	2.6	4.2	2.6	4.5	2.6
	30.0	3.2	2.4	3.4	2.5	3.6	2.4	3.7	2.5	3.9	2.6	4.1	2.5	4.4	2.5
	32.5	3.2	2.3	3.3	2.4	3.5	2.4	3.7	2.4	3.8	2.5	4.0	2.5	4.3	2.5
	35.0	3.1	2.3	3.2	2.4	3.5	2.4	3.6	2.4	3.7	2.5	4.0	2.5	4.2	2.5
	37.5	3.1	2.3	3.2	2.4	3.4	2.4	3.5	2.4	3.7	2.5	3.9	2.5	4.1	2.4
	40.0	3.0	2.3	3.1	2.3	3.3	2.3	3.5	2.4	3.6	2.5	3.8	2.4	4.1	2.4
	43.0	3.0	2.2	3.0	2.3	3.2	2.3	3.4	2.3	3.5	2.4	3.7	2.4	4.0	2.4
40 (4.5)	20.0	4.3	3.2	4.5	3.3	4.8	3.3	5.0	3.4	5.2	3.5	5.5	3.5	5.9	3.4
	22.5	4.3	3.2	4.4	3.3	4.7	3.3	4.9	3.3	5.1	3.5	5.4	3.5	5.8	3.4
	25.0	4.2	3.2	4.4	3.3	4.7	3.3	4.8	3.3	5.0	3.4	5.3	3.4	5.7	3.4
	27.5	4.1	3.1	4.3	3.2	4.6	3.2	4.7	3.3	4.9	3.4	5.2	3.4	5.6	3.3
	30.0	4.1	3.1	4.2	3.2	4.5	3.2	4.7	3.2	4.8	3.4	5.1	3.3	5.5	3.3
	32.5	4.0	3.1	4.1	3.2	4.4	3.1	4.6	3.2	4.7	3.3	5.0	3.3	5.4	3.3
	35.0	3.9	3.0	4.1	3.1	4.3	3.1	4.5	3.2	4.6	3.3	5.0	3.3	5.3	3.2
	37.5	3.8	3.0	4.0	3.1	4.3	3.1	4.4	3.1	4.6	3.3	4.9	3.2	5.2	3.2
	40.0	3.8	3.0	3.9	3.0	4.2	3.0	4.3	3.1	4.5	3.2	4.8	3.2	5.1	3.1
	43.0	3.7	2.9	3.8	3.0	4.1	3.0	4.2	3.1	4.4	3.2	4.7	3.2	5.0	3.1
50 (5.6)	20.0	5.4	4.0	5.6	4.1	6.0	4.1	6.2	4.2	6.4	4.3	6.9	4.3	7.3	4.2
	22.5	5.3	3.9	5.5	4.1	5.9	4.1	6.1	4.1	6.3	4.3	6.8	4.3	7.2	4.2
	25.0	5.3	3.9	5.4	4.0	5.8	4.0	6.0	4.1	6.2	4.2	6.6	4.2	7.1	4.1
	27.5	5.2	3.9	5.3	4.0	5.7	4.0	5.9	4.0	6.1	4.2	6.5	4.2	6.9	4.1
	30.0	5.0	3.8	5.2	3.9	5.6	3.9	5.8	4.0	6.0	4.2	6.4	4.1	6.8	4.1
	32.5	5.0	3.8	5.1	3.9	5.5	3.9	5.7	3.9	5.9	4.1	6.3	4.1	6.7	4.0
	35.0	4.9	3.7	5.0	3.8	5.4	3.8	5.6	3.9	5.8	4.1	6.2	4.0	6.6	4.0
	37.5	4.8	3.7	5.0	3.8	5.3	3.8	5.5	3.9	5.7	4.0	6.0	4.0	6.4	3.9
	40.0	4.7	3.6	4.8	3.7	5.2	3.7	5.4	3.8	5.6	4.0	5.9	3.9	6.3	3.9
	43.0	4.6	3.6	4.7	3.7	5.0	3.7	5.2	3.8	5.4	3.9	5.8	3.9	6.2	3.8
63 (7.1)	20.0	6.9	5.0	7.1	5.2	7.6	5.2	7.9	5.2	8.2	5.4	8.7	5.4	9.3	5.3
	22.5	6.7	4.9	7.0	5.1	7.5	5.1	7.8	5.2	8.0	5.4	8.6	5.3	9.1	5.2
	25.0	6.7	4.9	6.9	5.1	7.4	5.0	7.6	5.1	7.9	5.3	8.4	5.2	8.9	5.2
	27.5	6.5	4.8	6.7	5.0	7.2	5.0	7.5	5.1	7.7	5.3	8.3	5.2	8.8	5.1
	30.0	6.4	4.8	6.6	4.9	7.1	4.9	7.3	5.0	7.6	5.2	8.1	5.1	8.7	5.1
	32.5	6.3	4.7	6.5	4.9	7.0	4.8	7.2	4.9	7.5	5.1	8.0	5.1	8.5	5.0
	35.0	6.2	4.7	6.4	4.8	6.8	4.8	7.1	4.9	7.3	5.1	7.8	5.0	8.3	5.0
	37.5	6.1	4.6	6.3	4.8	6.7	4.7	7.0	4.8	7.2	5.0	7.7	5.0	8.2	4.9
	40.0	6.0	4.6	6.1	4.7	6.6	4.7	6.8	4.8	7.1	5.0	7.5	4.9	8.0	4.8
	43.0	5.8	4.5	6.0	4.6	6.4	4.6	6.6	4.7	6.9	4.9	7.3	4.8	7.8	4.8
71 (8.0)	20.0	7.7	5.7	8.0	5.8	8.6	5.8	8.9	5.9	9.2	6.1	9.8	6.1	10.4	6.0
	22.5	7.6	5.6	7.9	5.8	8.4	5.8	8.7	5.8	9.0	6.1	9.7	6.0	10.2	5.9
	25.0	7.5	5.6	7.8	5.7	8.3	5.7	8.6	5.8	8.9	6.0	9.4	5.9	10.1	5.9
	27.5	7.4	5.5	7.6	5.6	8.2	5.6	8.4	5.7	8.7	5.9	9.3	5.9	9.9	5.8
	30.0	7.2	5.4	7.5	5.6	8.0	5.6	8.3	5.6	8.6	5.9	9.1	5.8	9.8	5.8
	32.5	7.1	5.3	7.3	5.5	7.8	5.5	8.1	5.6	8.4	5.8	9.0	5.7	9.6	5.7
	35.0	7.0	5.3	7.2	5.4	7.7	5.4	8.0	5.5	8.2	5.7	8.8	5.7	9.4	5.6
	37.5	6.8	5.2	7.1	5.4	7.6	5.4	7.8	5.5	8.1	5.7	8.6	5.6	9.2	5.6
	40.0	6.7	5.2	6.9	5.3	7.4	5.3	7.7	5.4	8.0	5.6	8.5	5.6	9.0	5.5
	43.0	6.6	5.1	6.7	5.2	7.2	5.2	7.5	5.3	7.8	5.5	8.3	5.5	8.8	5.4

Cooling capacity in combination with PUHY-P700,750,800YSGM

PDFY-P-VM-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
80 (9.0)	20.0	8.7	6.2	9.0	6.4	9.7	6.4	10.0	6.5	10.4	6.7	11.1	6.7	11.7	6.6
	22.5	8.6	6.1	8.9	6.3	9.5	6.3	9.8	6.4	10.2	6.6	10.9	6.6	11.5	6.5
	25.0	8.5	6.1	8.7	6.2	9.4	6.2	9.7	6.3	10.0	6.5	10.6	6.5	11.3	6.4
	27.5	8.3	6.0	8.6	6.2	9.2	6.1	9.5	6.2	9.8	6.5	10.5	6.4	11.2	6.3
	30.0	8.1	5.9	8.4	6.1	9.0	6.1	9.3	6.1	9.6	6.4	10.3	6.3	11.0	6.3
	32.5	8.0	5.8	8.2	6.0	8.8	6.0	9.1	6.1	9.5	6.3	10.1	6.2	10.8	6.2
	35.0	7.8	5.8	8.1	5.9	8.6	5.9	9.0	6.0	9.3	6.2	9.9	6.2	10.5	6.1
	37.5	7.7	5.7	8.0	5.9	8.5	5.8	8.8	5.9	9.1	6.2	9.7	6.1	10.4	6.0
	40.0	7.6	5.6	7.7	5.8	8.3	5.7	8.6	5.9	9.0	6.1	9.5	6.0	10.1	5.9
	43.0	7.4	5.5	7.6	5.7	8.1	5.6	8.4	5.8	8.7	6.0	9.3	5.9	9.9	5.9
100 (11.2)	20.0	10.8	7.8	11.2	8.0	12.0	8.0	12.5	8.1	12.9	8.4	13.8	8.4	14.6	8.2
	22.5	10.6	7.7	11.0	7.9	11.8	7.9	12.2	8.0	12.7	8.3	13.6	8.3	14.3	8.1
	25.0	10.5	7.6	10.9	7.8	11.6	7.8	12.0	7.9	12.4	8.2	13.2	8.1	14.1	8.0
	27.5	10.3	7.5	10.6	7.7	11.4	7.7	11.8	7.8	12.2	8.1	13.0	8.1	13.9	8.0
	30.0	10.1	7.4	10.5	7.6	11.2	7.6	11.6	7.7	12.0	8.0	12.8	8.0	13.7	7.9
	32.5	9.9	7.3	10.2	7.5	11.0	7.5	11.4	7.6	11.8	7.9	12.5	7.9	13.4	7.8
	35.0	9.7	7.2	10.1	7.5	10.8	7.4	11.2	7.6	11.5	7.8	12.3	7.8	13.1	7.7
	37.5	9.6	7.2	10.0	7.4	10.6	7.3	11.0	7.5	11.4	7.8	12.1	7.7	12.9	7.6
	40.0	9.4	7.1	9.6	7.2	10.4	7.2	10.8	7.4	11.1	7.7	11.9	7.6	12.6	7.5
	43.0	9.2	7.0	9.4	7.1	10.1	7.1	10.5	7.3	10.9	7.6	11.6	7.5	12.3	7.4
125 (14.0)	20.0	13.5	9.8	14.0	10.2	15.1	10.1	15.6	10.3	16.1	10.7	17.2	10.6	18.3	10.4
	22.5	13.3	9.7	13.8	10.1	14.8	10.0	15.3	10.2	15.8	10.6	16.9	10.5	17.9	10.3
	25.0	13.2	9.7	13.6	9.9	14.6	9.9	15.1	10.1	15.5	10.5	16.5	10.3	17.6	10.2
	27.5	12.9	9.5	13.3	9.8	14.3	9.8	14.8	9.9	15.3	10.3	16.3	10.2	17.4	10.1
	30.0	12.6	9.4	13.1	9.7	14.0	9.7	14.5	9.8	15.0	10.2	16.0	10.1	17.1	10.0
	32.5	12.4	9.3	12.8	9.6	13.7	9.5	14.2	9.7	14.7	10.1	15.7	10.0	16.7	9.9
	35.0	12.2	9.2	12.6	9.5	13.4	9.4	14.0	9.6	14.4	10.0	15.4	9.9	16.4	9.8
	37.5	12.0	9.1	12.5	9.4	13.2	9.3	13.7	9.5	14.2	9.9	15.1	9.8	16.1	9.7
	40.0	11.8	9.0	12.0	9.2	13.0	9.2	13.4	9.4	13.9	9.8	14.8	9.7	15.8	9.5
	43.0	11.5	8.8	11.8	9.1	12.6	9.0	13.1	9.2	13.6	9.6	14.5	9.5	15.4	9.4

2.4b. Heating capacity in combination with PUHY-P700,750,800YSGM

PDFY-P-VM-E

SHC:Sensible Heat Capacity(kW)

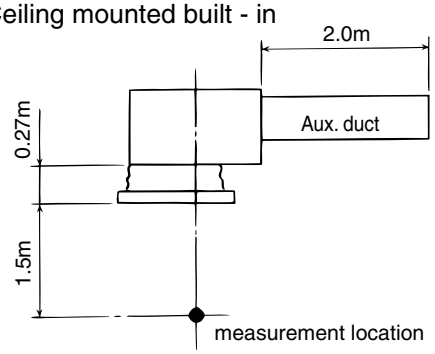
Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
20 (2.2)	-20.0	1.3	1.3	1.3	1.2
	-15.0	1.5	1.5	1.5	1.5
	-10.0	1.8	1.8	1.7	1.7
	-5.0	2.0	2.0	1.9	1.8
	0.0	2.3	2.2	2.0	1.8
	2.5	2.4	2.4	2.0	1.8
	6.0	2.6	2.5	2.0	1.8
	7.5	2.7	2.5	2.0	1.8
	10.0	2.8	2.5	2.0	1.8
	12.5	2.9	2.5	2.0	1.8
	15.5	2.9	2.5	2.0	1.8
25 (2.8)	-20.0	1.6	1.6	1.6	1.6
	-15.0	2.0	1.9	1.9	1.9
	-10.0	2.3	2.2	2.2	2.1
	-5.0	2.6	2.6	2.5	2.4
	0.0	2.9	2.9	2.5	2.4
	2.5	3.1	3.0	2.5	2.4
	6.0	3.3	3.2	2.5	2.4
	7.5	3.4	3.2	2.5	2.4
	10.0	3.6	3.2	2.5	2.4
	12.5	3.7	3.2	2.5	2.4
	15.5	3.7	3.2	2.5	2.4
32 (3.6)	-20.0	2.0	2.0	2.0	2.0
	-15.0	2.4	2.4	2.4	2.3
	-10.0	2.8	2.8	2.7	2.7
	-5.0	3.2	3.2	3.1	2.9
	0.0	3.6	3.6	3.2	2.9
	2.5	3.8	3.8	3.2	2.9
	6.0	4.1	4.0	3.2	2.9
	7.5	4.2	4.0	3.2	2.9
	10.0	4.4	4.0	3.2	2.9
	12.5	4.6	4.0	3.2	2.9
	15.5	4.6	4.0	3.2	2.9
40 (4.5)	-20.0	2.5	2.5	2.5	2.5
	-15.0	3.1	3.0	3.0	2.9
	-10.0	3.6	3.5	3.4	3.4
	-5.0	4.1	4.0	3.9	3.7
	0.0	4.6	4.5	4.0	3.7
	2.5	4.8	4.7	4.0	3.7
	6.0	5.2	5.0	4.0	3.7
	7.5	5.3	5.0	4.0	3.7
	10.0	5.6	5.0	4.0	3.7
	12.5	5.8	5.0	4.0	3.7
	15.5	5.8	5.0	4.0	3.7
50 (5.6)	-20.0	3.2	3.2	3.2	3.1
	-15.0	3.8	3.8	3.7	3.7
	-10.0	4.5	4.4	4.3	4.2
	-5.0	5.1	5.0	4.9	4.6
	0.0	5.7	5.6	5.0	4.6
	2.5	6.0	5.9	5.0	4.6
	6.0	6.5	6.3	5.0	4.6
	7.5	6.7	6.3	5.0	4.6
	10.0	7.0	6.3	5.0	4.6
	12.5	7.3	6.3	5.0	4.6
	15.5	7.3	6.3	5.0	4.6
63 (7.1)	-20.0	4.0	4.0	4.0	3.9
	-15.0	4.9	4.8	4.8	4.6
	-10.0	5.7	5.6	5.4	5.4
	-5.0	6.5	6.4	6.2	5.9
	0.0	7.3	7.2	6.4	5.9
	2.5	7.7	7.5	6.4	5.9
	6.0	8.2	8.0	6.4	5.9
	7.5	8.5	8.0	6.4	5.9
	10.0	8.9	8.0	6.4	5.9
	12.5	9.3	8.0	6.4	5.9
	15.5	9.3	8.0	6.4	5.9
71 (8.0)	-20.0	4.5	4.5	4.5	4.4
	-15.0	5.5	5.4	5.4	5.2
	-10.0	6.4	6.3	6.1	6.0
	-5.0	7.3	7.2	6.9	6.6
	0.0	8.2	8.1	7.2	6.6
	2.5	8.6	8.5	7.2	6.6
	6.0	9.3	9.0	7.2	6.6
	7.5	9.5	9.0	7.2	6.6
	10.0	10.0	9.0	7.2	6.6
	12.5	10.4	9.0	7.2	6.6
	15.5	10.4	9.0	7.2	6.6

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
80 (9.0)	-20.0	5.0	5.0	5.0	4.9
	-15.0	6.1	6.0	6.0	5.8
	-10.0	7.1	7.0	6.8	6.7
	-5.0	8.1	8.0	7.7	7.4
	0.0	9.1	9.0	8.0	7.4
	2.5	9.6	9.4	8.0	7.4
	6.0	10.3	10.0	8.0	7.4
	7.5	10.6	10.0	8.0	7.4
	10.0	11.1	10.0	8.0	7.4
	12.5	11.6	10.0	8.0	7.4
	15.5	11.6	10.0	8.0	7.4
100 (11.2)	-20.0	6.3	6.3	6.3	6.1
	-15.0	7.6	7.5	7.4	7.3
	-10.0	8.9	8.8	8.5	8.4
	-5.0	10.1	10.0	9.6	9.2
	0.0	11.4	11.2	9.9	9.2
	2.5	12.0	11.8	9.9	9.2
	6.0	12.9	12.5	9.9	9.2
	7.5	13.3	12.5	9.9	9.2
	10.0	13.9	12.5	9.9	9.2
	12.5	14.5	12.5	9.9	9.2
	15.5	14.5	12.5	9.9	9.2
125 (14.0)	-20.0	8.0	8.0	8.0	7.8
	-15.0	9.8	9.6	9.5	9.3
	-10.0	11.4	11.2	10.9	10.7
	-5.0	13.0	12.8	12.3	11.8
	0.0	14.6	14.3	12.7	11.8
	2.5	15.4	15.0	12.7	11.8
	6.0	16.5	16.0	12.7	11.8
	7.5	17.0	16.0	12.7	11.8
	10.0	17.8	16.0	12.7	11.8
	12.5	18.6	16.0	12.7	11.8
	15.5	18.6	16.0	12.7	11.8

3. Sound Levels

3.1 Noise levels

Ceiling mounted built - in



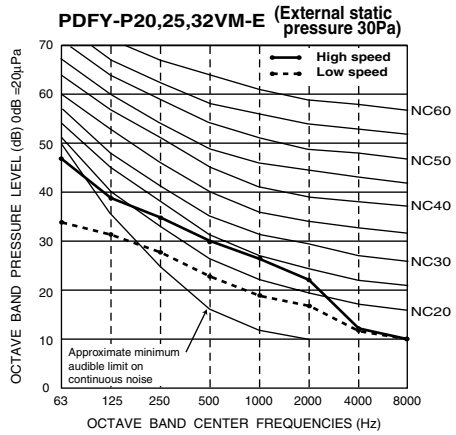
※ PDFY-P20~80VM-E
Low : 30Pa Mid : 50Pa High : 100Pa
PDFY-P100, 125VM-E
Low : 50Pa Mid : 100Pa High : 130Pa

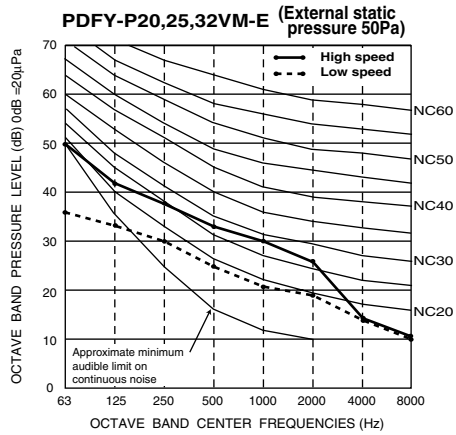
Noise level at anechoic room
(Low-Middle2-Middle1-High) Unit : dB(A)

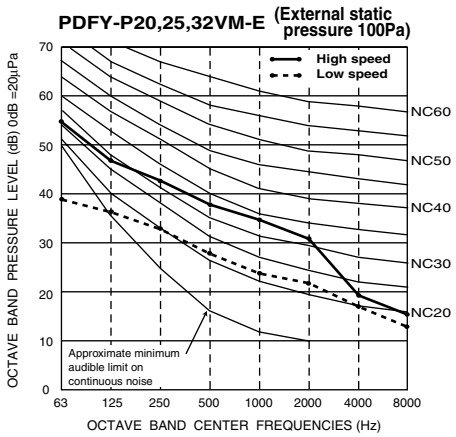
Model	External static pressure※		
	Low	Mid	High
PDFY-P20VM-E PDFY-P25VM-E PDFY-P32VM-E	26-28-31-33	28-30-33-36	31-35-39-41
PDFY-P40VM-E PDFY-P50VM-E	35-35.5-36-37	34-36-37-39	37-39-40-41
PDFY-P63VM-E	28-31-34-37	30-34-36-39	33-37-40-42
PDFY-P71VM-E	30-33-35-38	32-35-37-40	35-38-41-43
PDFY-P80VM-E	31-34-37-39	34-37-40-42	35-39-42-44
PDFY-P100VM-E	34-42(37-44)	36-44(38-45)	38-45(39-46)
PDFY-P125VM-E	40-45(42-46)	42-46(43-47)	42-46(44-47)

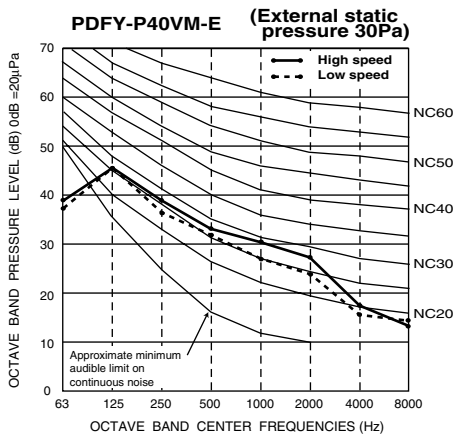
The figure in ( ) indicates noise level at 240V/50Hz.

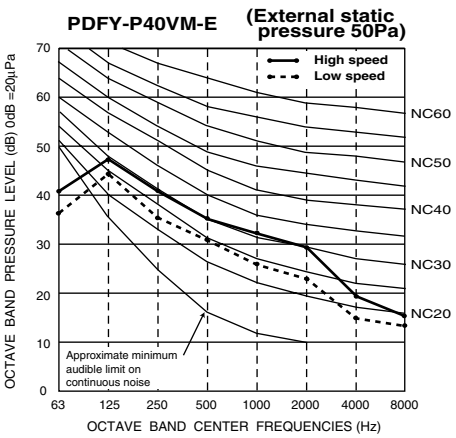
3.2 NC curves

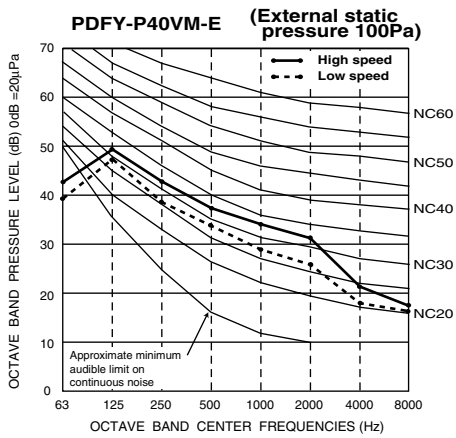


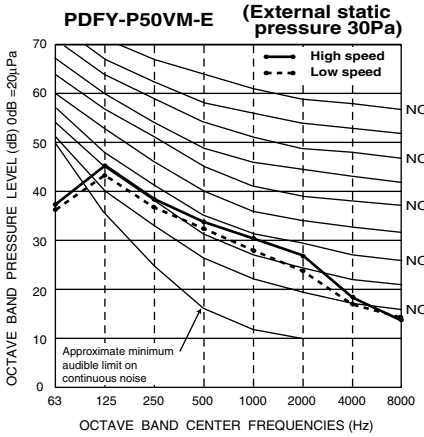


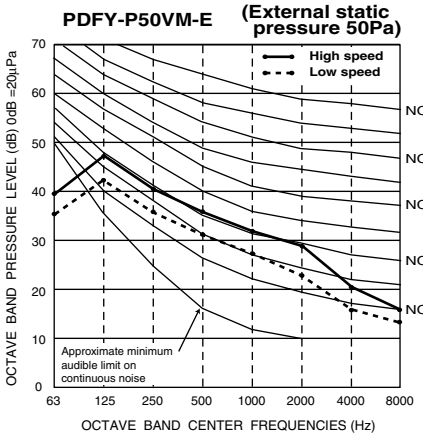


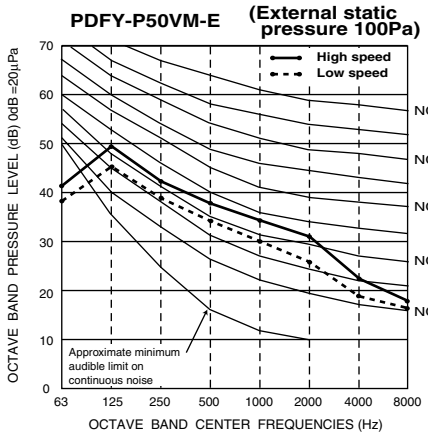


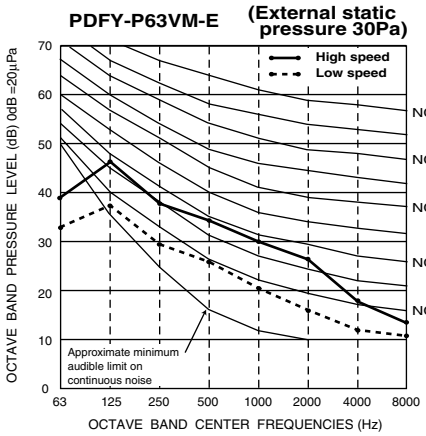


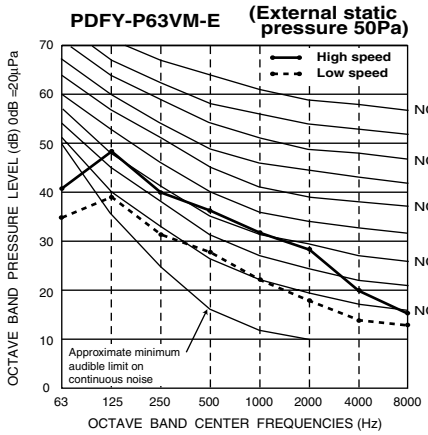


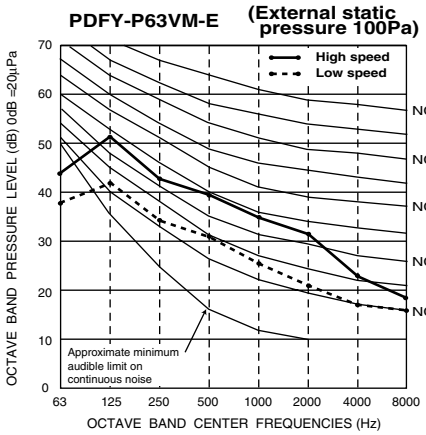

PDFY-P50VM-E
(External static pressure 30Pa)
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB =20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

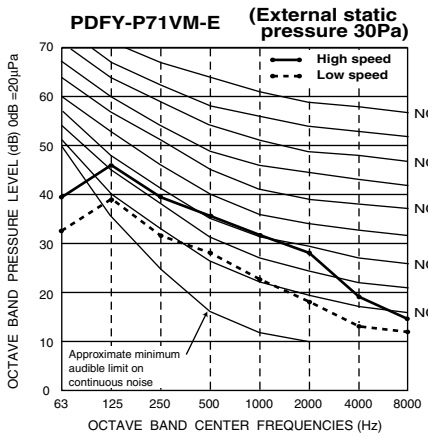

PDFY-P50VM-E
(External static pressure 50Pa)
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB =20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

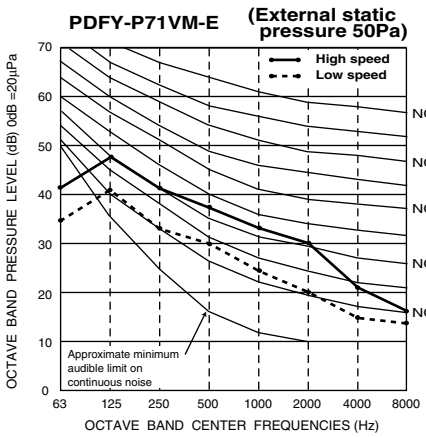

PDFY-P50VM-E
(External static pressure 100Pa)
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB =20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

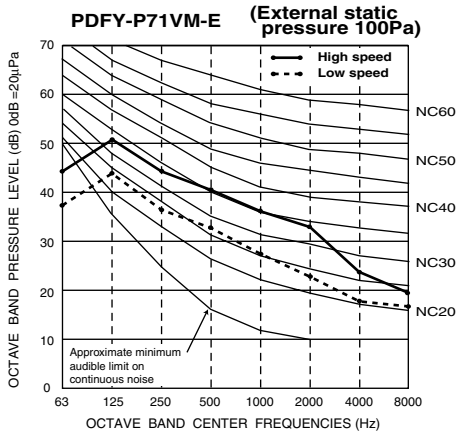

PDFY-P63VM-E
(External static pressure 30Pa)
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB =20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

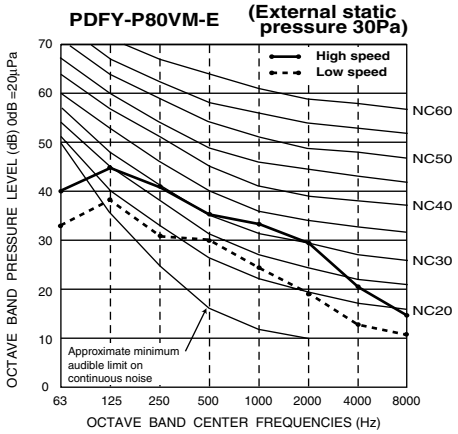

PDFY-P63VM-E
(External static pressure 50Pa)
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB =20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

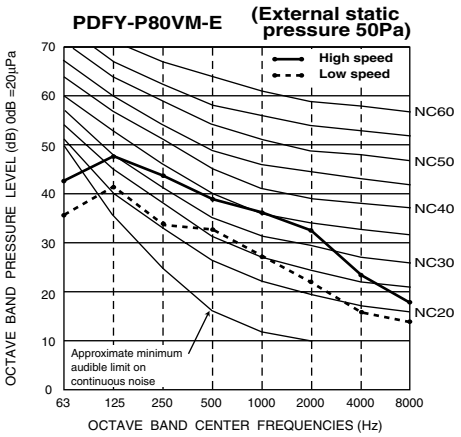

PDFY-P63VM-E
(External static pressure 100Pa)
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB =20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

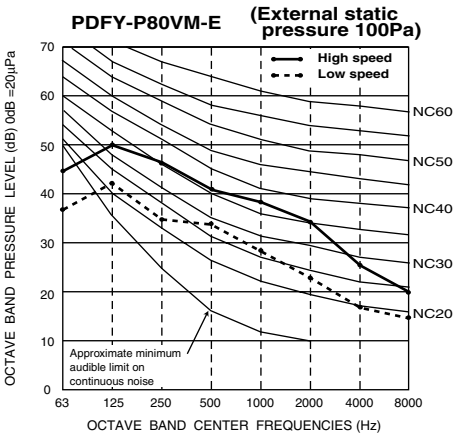

PDFY-P71VM-E
(External static pressure 30Pa)
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB =20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

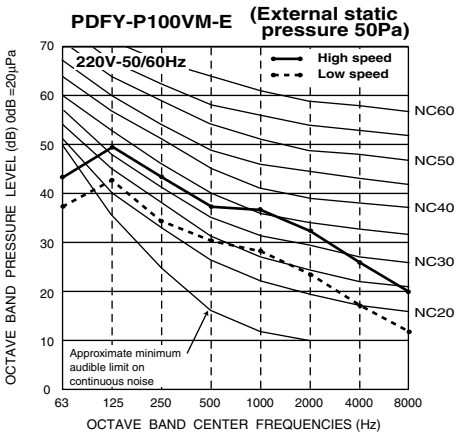

PDFY-P71VM-E
(External static pressure 50Pa)
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB =20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

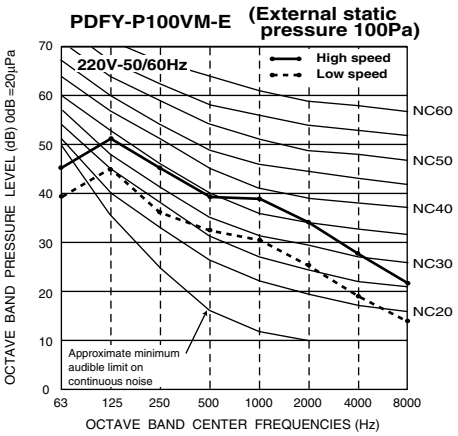

PDFY-P71VM-E
(External static pressure 100Pa)
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB =20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

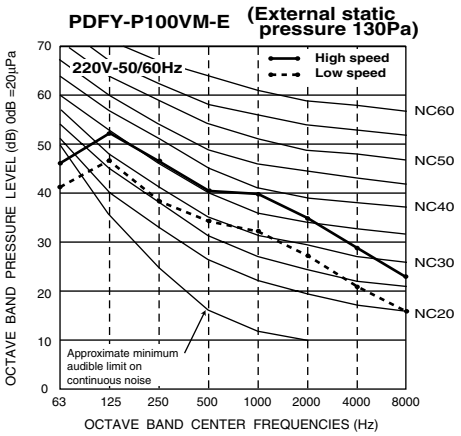

PDFY-P80VM-E
(External static pressure 30Pa)
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB =20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

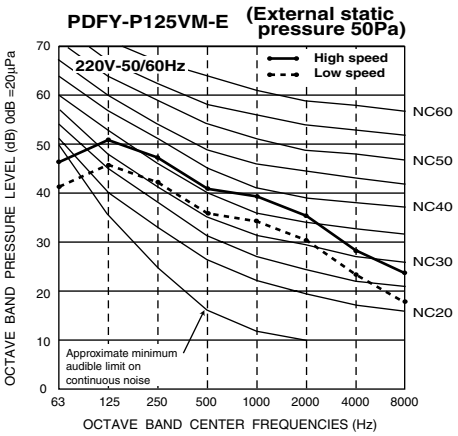

PDFY-P80VM-E
(External static pressure 50Pa)
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB =20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

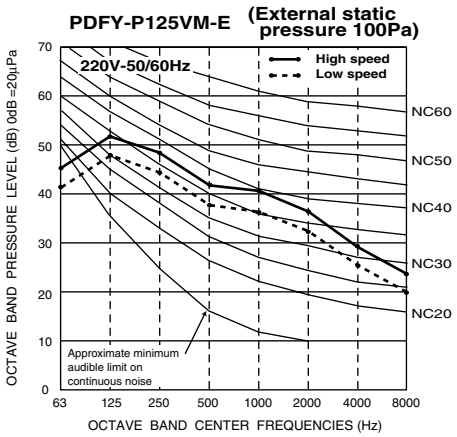

PDFY-P80VM-E
(External static pressure 100Pa)
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB =20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

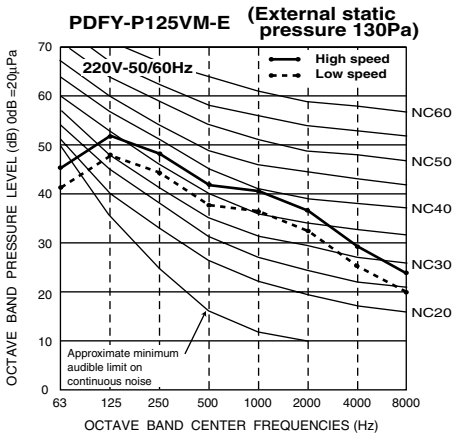

PDFY-P100VM-E
(External static pressure 50Pa)
220V-50/60Hz
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB =20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

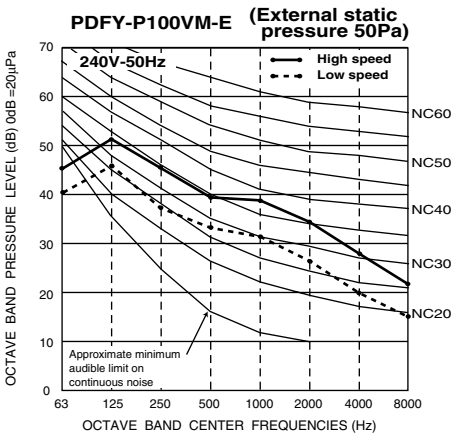

PDFY-P100VM-E
(External static pressure 100Pa)
220V-50/60Hz
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB =20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

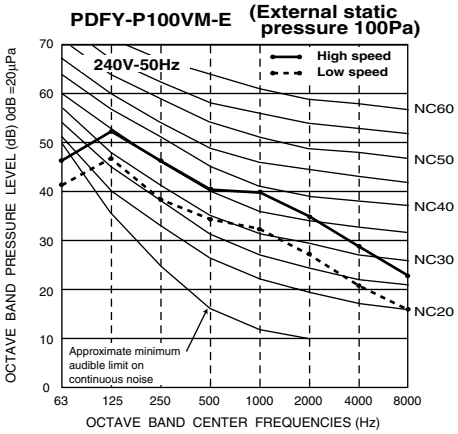

PDFY-P100VM-E
(External static pressure 130Pa)
220V-50/60Hz
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB =20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

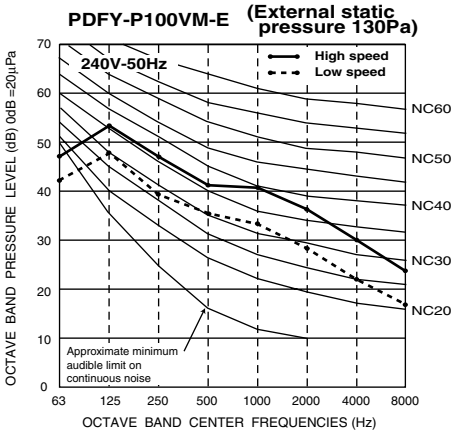

PDFY-P125VM-E
(External static pressure 50Pa)
220V-50/60Hz
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB =20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

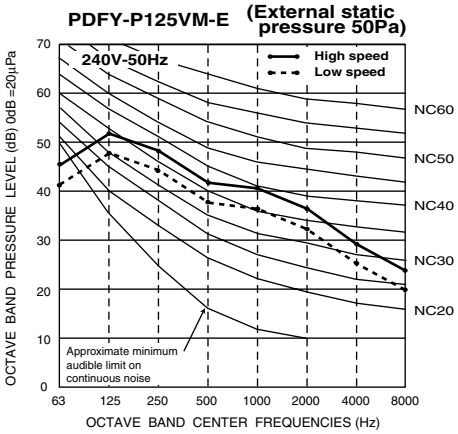

PDFY-P125VM-E (External static pressure 100Pa)
220V-50/60Hz
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB =20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

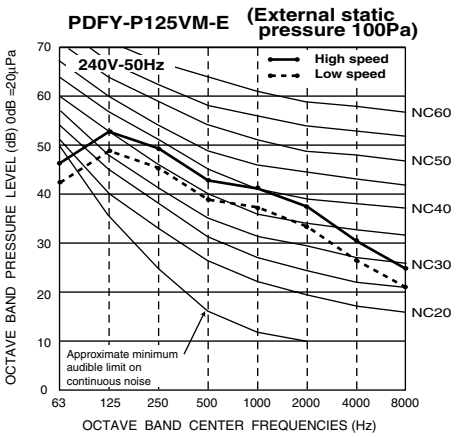

PDFY-P125VM-E (External static pressure 130Pa)
220V-50/60Hz
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB =20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

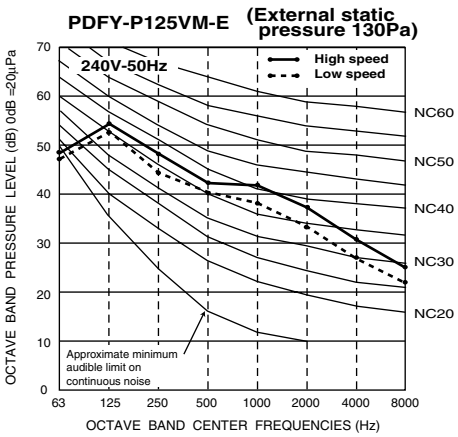

PDFY-P100VM-E (External static pressure 50Pa)
240V-50Hz
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB =20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)


PDFY-P100VM-E (External static pressure 100Pa)
240V-50Hz
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB =20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)


PDFY-P100VM-E (External static pressure 130Pa)
240V-50Hz
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB =20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

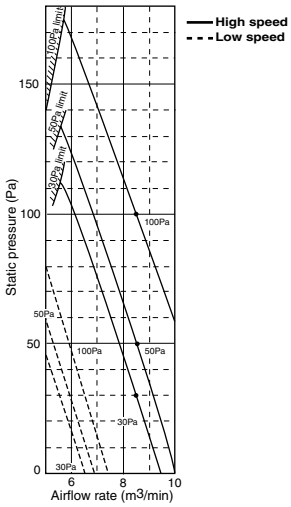

PDFY-P125VM-E (External static pressure 50Pa)
240V-50Hz
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB =20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)


PDFY-P125VM-E (External static pressure 100Pa)
240V-50Hz
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB =20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

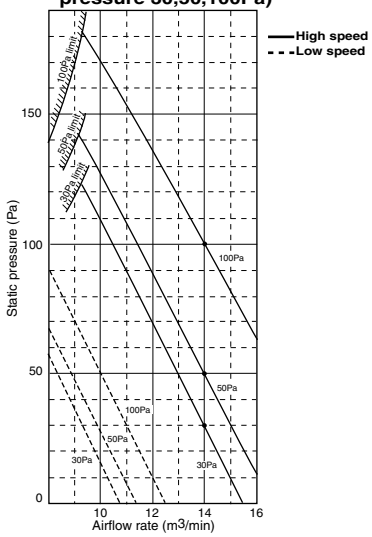

PDFY-P125VM-E (External static pressure 130Pa)
240V-50Hz
High speed
Low speed
NC60
NC50
NC40
NC30
NC20
Approximate minimum audible limit on continuous noise
OCTAVE BAND PRESSURE LEVEL (dB) 0dB =20μPa
OCTAVE BAND CENTER FREQUENCIES (Hz)

3.3 Fan characteristics curves

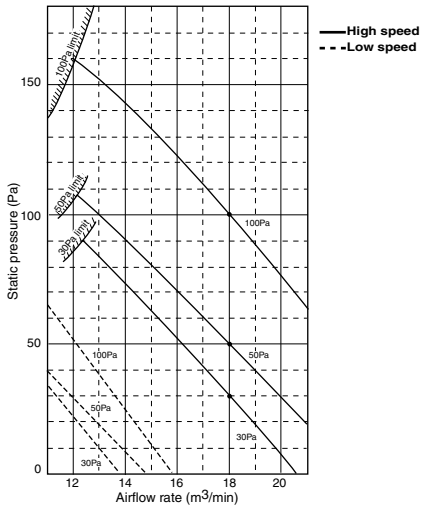
PDFY-P20,25,32VM-E
(External static pressure 30,50,100Pa)



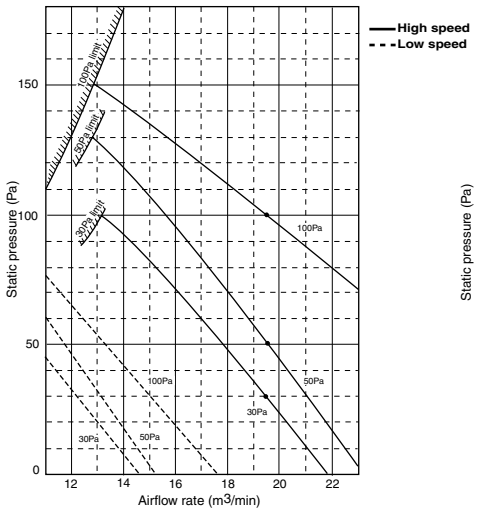
PDFY-P40,50VM-E
(External static pressure 30,50,100Pa)



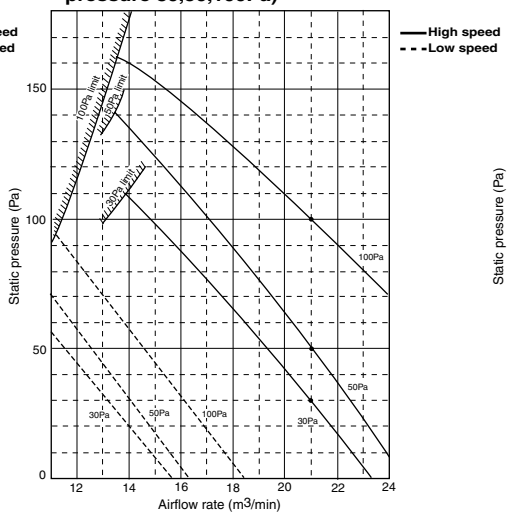
PDFY-P63VM-E
(External static pressure 30,50,100Pa)



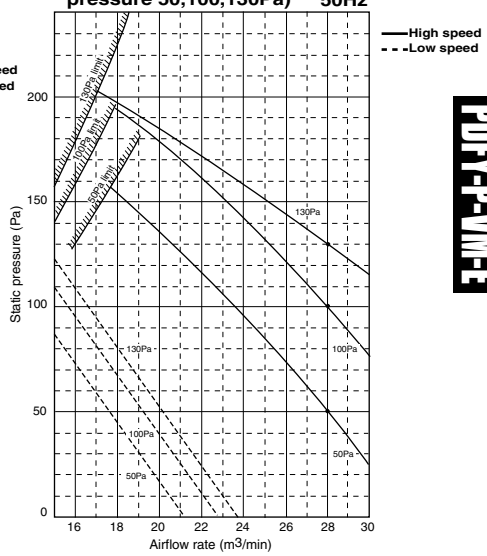
PDFY-P71VM-E
(External static pressure 30,50,100Pa)



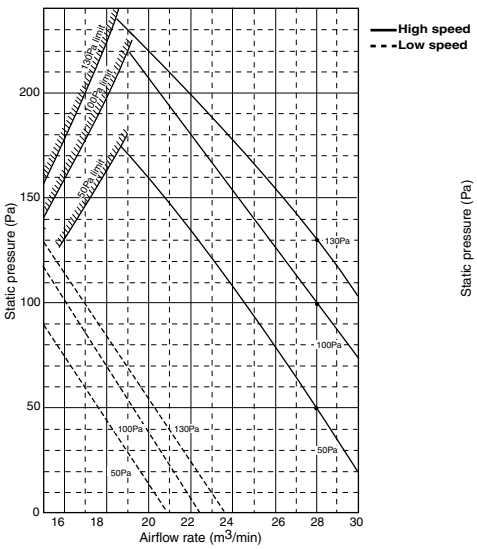
PDFY-P80VM-E
(External static pressure 30,50,100Pa)



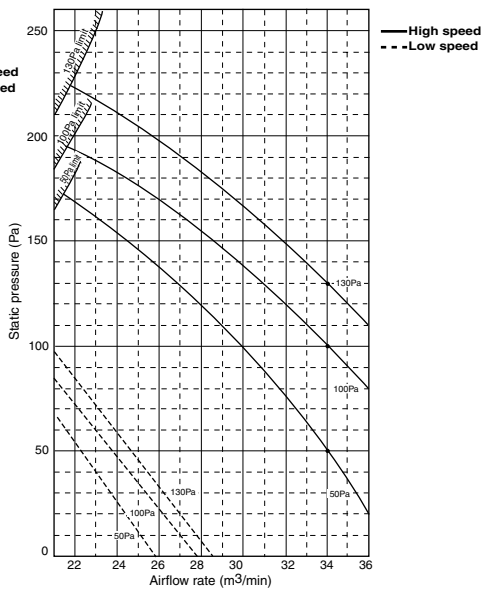
PDFY-P100VM-E
(External static pressure 50,100,130Pa) 50Hz



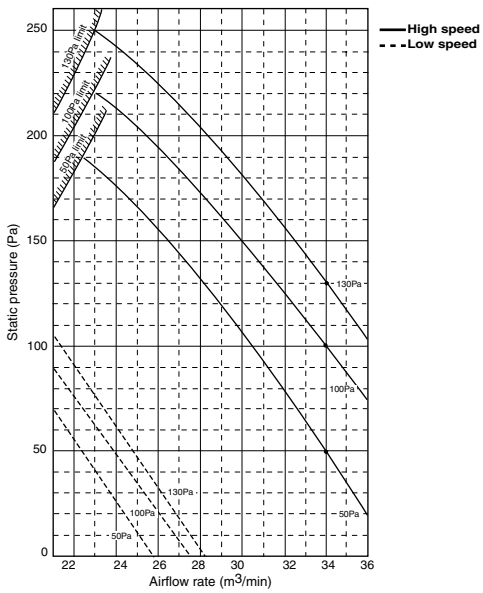
PDFY-P100VM-E
(External static pressure 50,100,130Pa) 60Hz



PDFY-P125VM-E
(External static pressure 50,100,130Pa) 50Hz



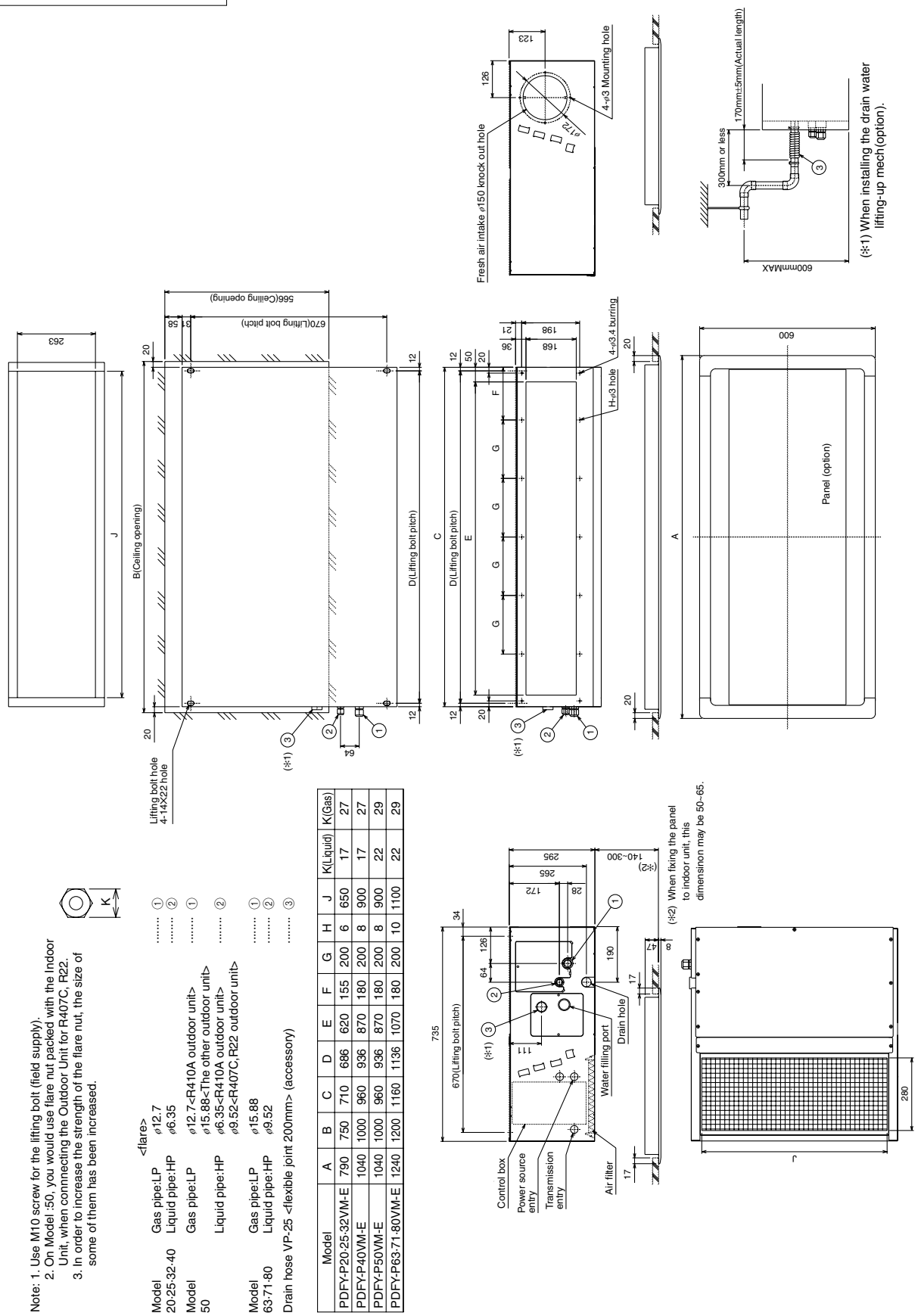
PDFY-P125VM-E
(External static pressure 50,100,130Pa) 60Hz



4. External Dimensions

PDFY-P20,25,32,40,50, 63,71,80VM-E

Unit : mm



Note: 1. Use M10 screw for the lifting bolt (field supply).
2. On Model :50, you would use flare nut packed with the Indoor Unit, when connnecting the Outdoor Unit for R407C, R22.
3. In order to increase the strength of the flare nut, the size of some of them has been increased.

K

<flare>

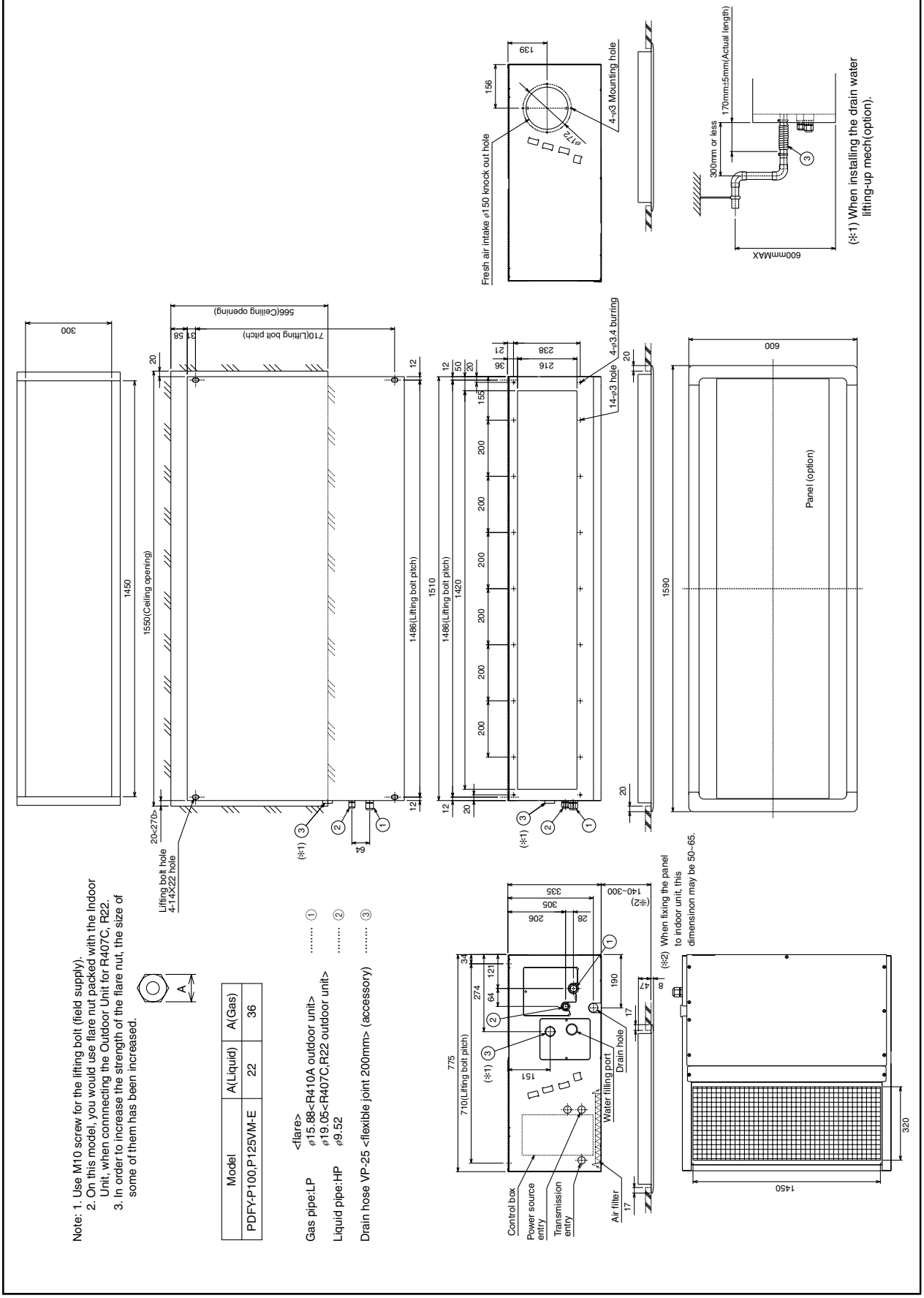
Model 20·25·32·40	Gas pipe:LP	ø12.7	..... ①
	Liquid pipe:HP	ø6.35	..... ②
Model 50	Gas pipe:LP	ø12.7<R410A outdoor unit>	..... ①
		ø15.88<The other outdoor unit>	
	Liquid pipe:HP	ø6.35<R410A outdoor unit>	..... ②
		ø9.52<R407C,R22 outdoor unit>	
Model 63·71·80	Gas pipe:LP	ø15.88	..... ①
	Liquid pipe:HP	ø9.52	..... ②

Drain hose VP-25 <flexible joint 200mm> (accessory) ..... ③

Model	A	B	C	D	E	F	G	H	J	K(Liquid)	K(Gas)
PDFY-P20·25·32VM-E	790	750	710	686	620	155	200	6	650	17	27
PDFY-P40VM-E	1040	1000	960	936	870	180	200	8	900	17	27
PDFY-P50VM-E	1040	1000	960	936	870	180	200	8	900	22	29
PDFY-P63·71·80VM-E	1240	1200	1160	1136	1070	180	200	10	1100	22	29

PDFY-P100, 125VM-E

Unit : mm



Note: 1. Use M10 screw for the lifting bolt (field supply).
2. On this model, you would use flare nut packed with the Indoor Unit, when connecting the Outdoor Unit for R407C, R22.
3. In order to increase the strength of the flare nut, the size of some of them has been increased.

Model	A(Liquid)	A(Gas)
PDFY-P100,P125VM-E	22	36

Gas pipe:LP <flare> ø15.88<R410A outdoor unit> ø19.05<R407C,R22 outdoor unit> ..... ①

Liquid pipe:HP ø9.52 ..... ②

Drain hose VP-25 <flexible joint 200mm> (accessory) ..... ③

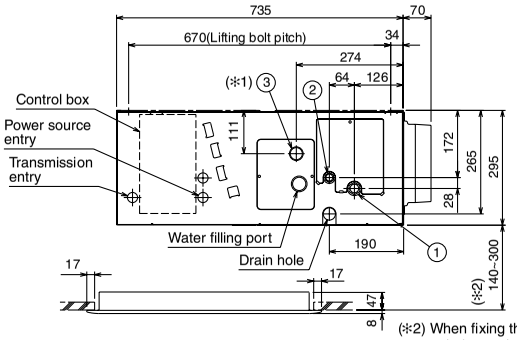
PDFY-P-VM-E

PDFY-P20,25,32,40,50, 63,71,80VM-E with circular duct flange

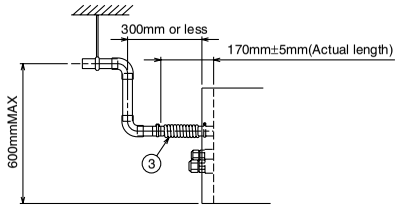
Note: 1. Use M10 screw for the lifting bolt (field supply).
2. On Model :50, you would use flare nut packed with the Indoor Unit, when connnecting the Outdoor Unit for R407C, R22.
3. In order to increase the strength of the flare nut, the size of some of them has been increased.

		<flare>	
Model 20·25·32·40	Gas pipe:LP	ø12.7	····· ①
	Liquid pipe:HP	ø6.35	····· ②
Model 50	Gas pipe:LP	ø12.7<R410A outdoor unit> ø15.88<The other outdoor unit>	····· ①
	Liquid pipe:HP	ø6.35<R410A outdoor unit> ø9.52<R407C,R22 outdoor unit>	····· ②
Model 63·71·80	Gas pipe:LP	ø15.88	····· ①
	Liquid pipe:HP	ø9.52	····· ②
Drain hose VP-25 <flexible joint 200mm> (accessory)			····· ③

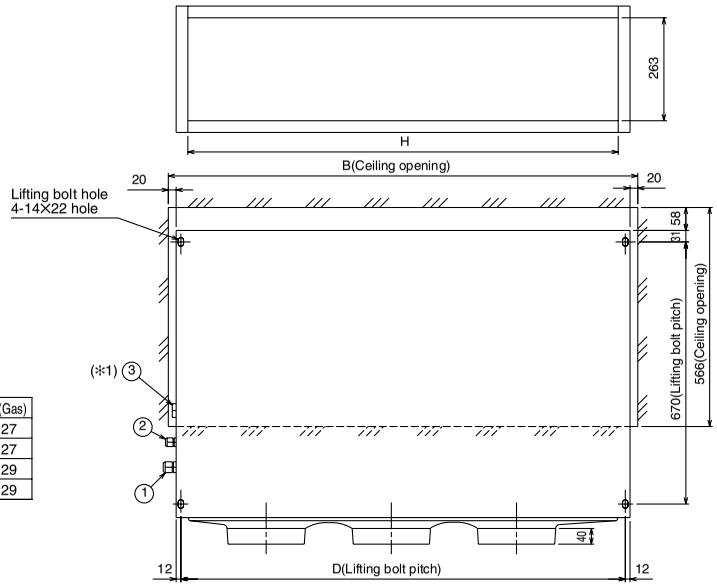
Model	A	B	C	D	E	F	G	H	J(Liquid)	J(Gas)
PDFY-P20·25·32VM-E	790	750	710	686	165	320	—	650	17	27
PDFY-P40VM-E	1040	1000	960	936	225	450	—	900	17	27
PDFY-P50VM-E	1040	1000	960	936	225	450	—	900	22	29
PDFY-P63·71·80VM-E	1240	1200	1160	1136	230	320	320	1100	22	29

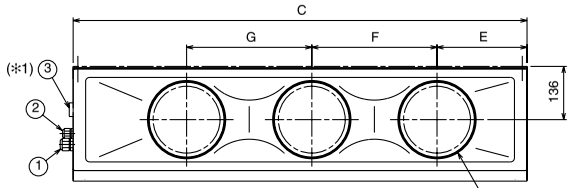


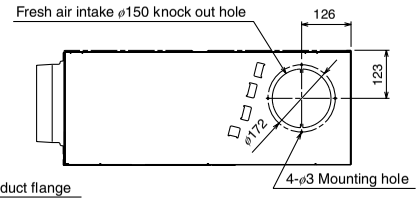
(※2) When fixing the panel to indoor unit, this dimensinon may be 50~65.

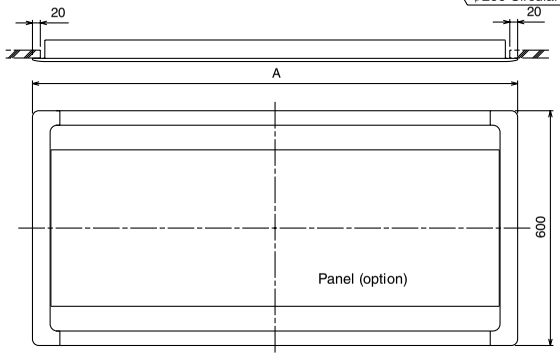


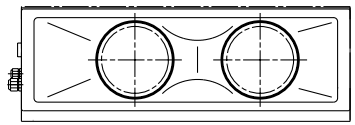
(※1)When installing the drain water lifting-up mech(option).









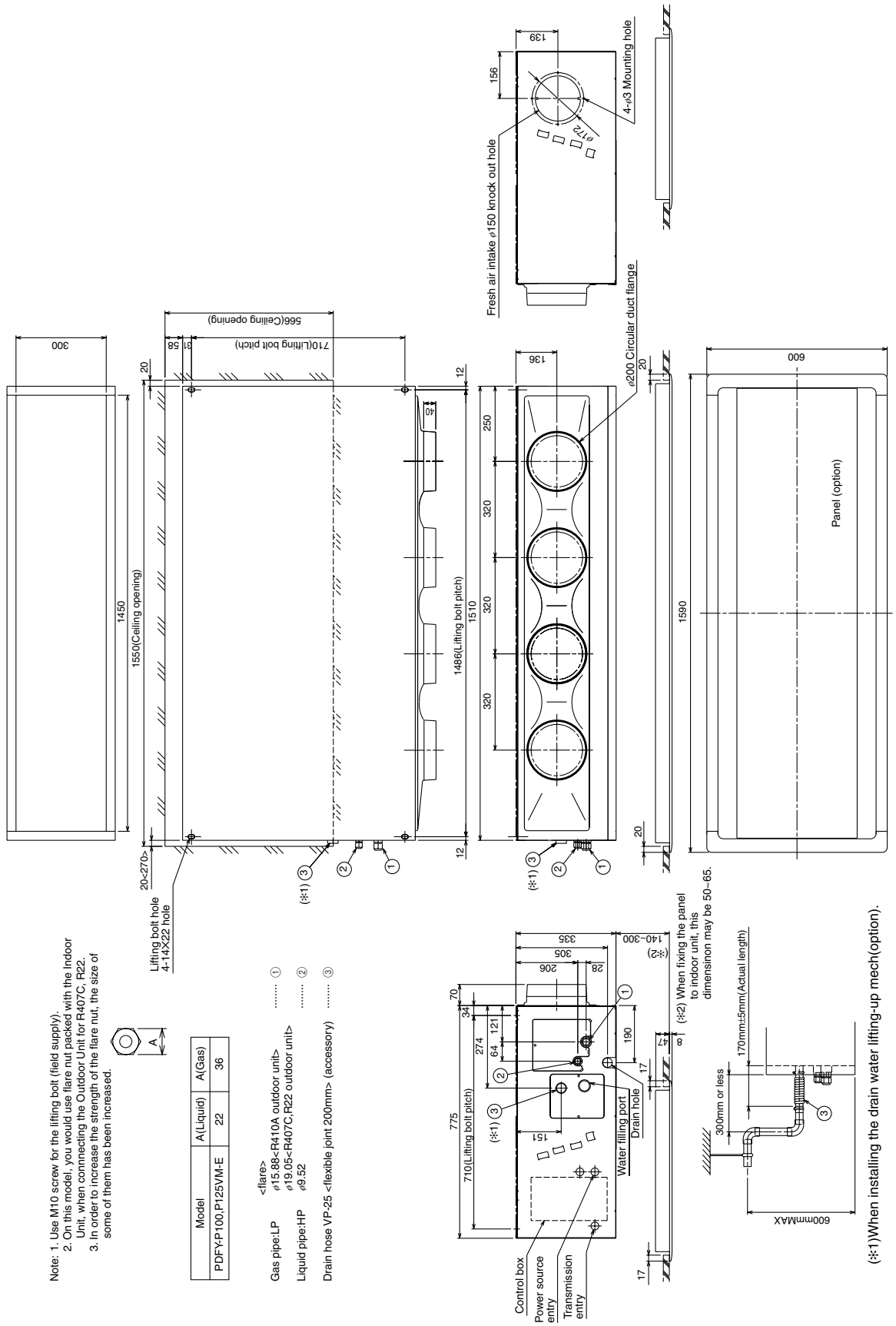


Model:20~50

Unit : mm

PDFY-P100, 125VM-E
with circular duct flange

Unit : mm



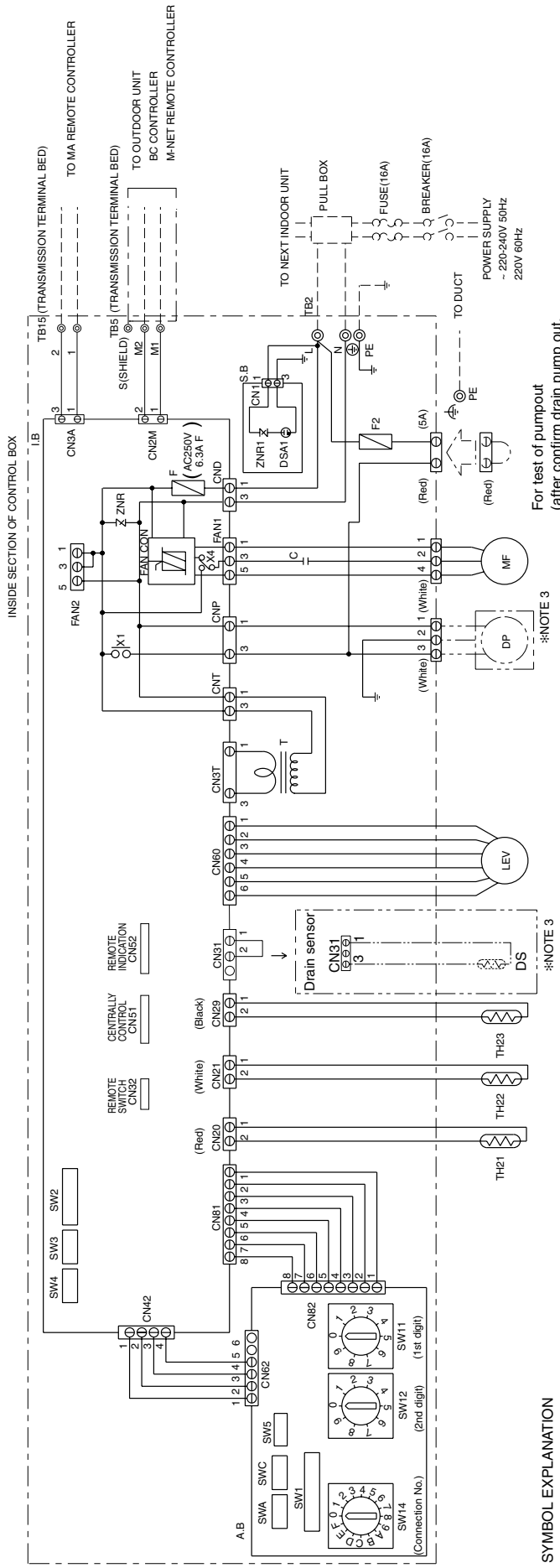
Note: 1. Use M10 screw for the lifting bolt (field supply).
2. On this model, you would use flare nut packed with the Indoor Unit, when connnecting the Outdoor Unit for R407C, R22.
3. In order to increase the strength of the flare nut, the size of some of them has been increased.

Model	A(Liquid)	A(Gas)
PDFY-P100,P125VM-E	22	36

<flare>
Gas pipe:LP ø15.88<R410A outdoor unit> ..... ①
ø19.05<R407C,R22 outdoor unit> ..... ②
Liquid pipe:HP ø9.52 ..... ③
Drain hose VP-25 <flexible joint 200mm> (accessory) ..... ③

PDFY-P-VM-E

PDFY-P20,25,32,40,50,63,71,80VM-E



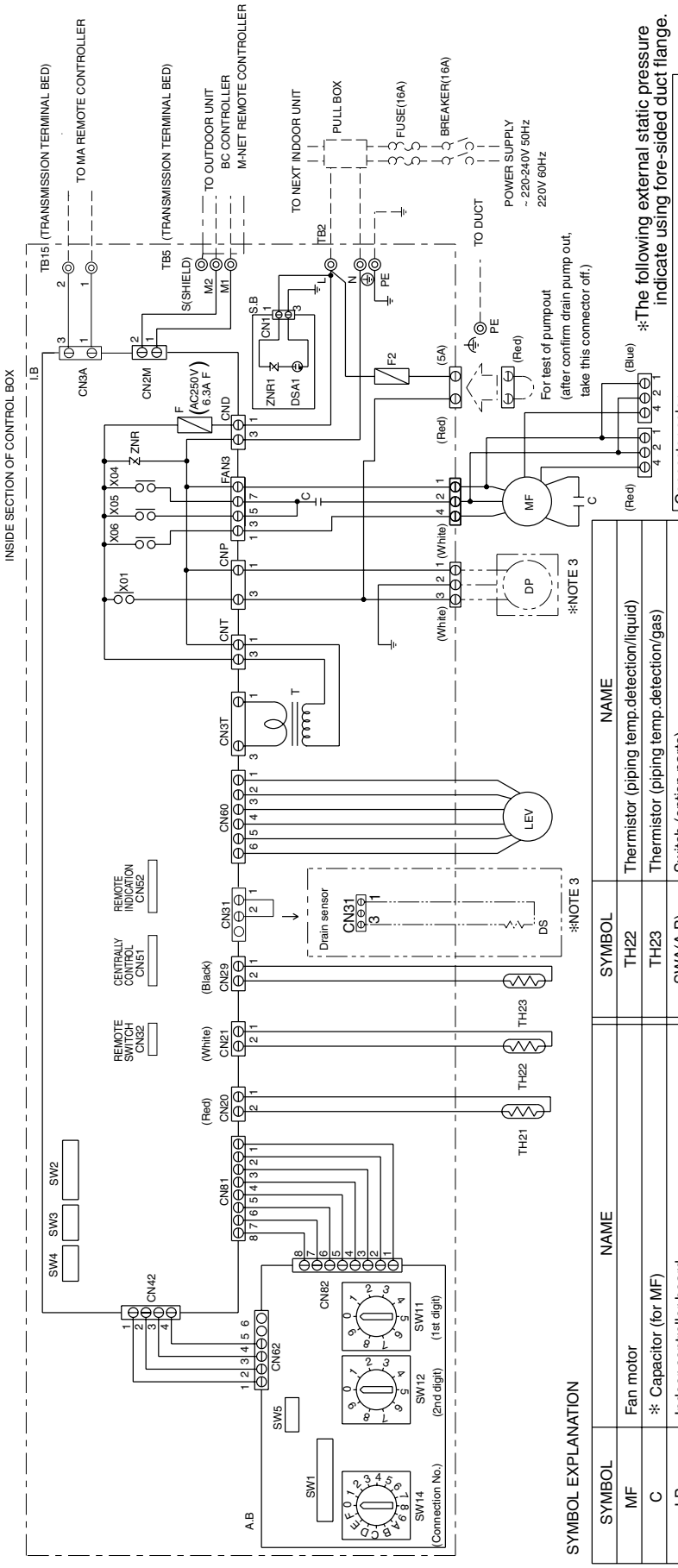
NOTE:1.TB2,TB5 shown in dotted line are field work.
2.Mark ⓪ indicates terminal bed, ⊖connector, [e]board insertion connector or fastening connector of control board.
3. ——— :optional parts

SYMBOL EXPLANATION

SYMBOL	NAME	SYMBOL	NAME
MF	Fan motor	TH22	Thermistor (piping temp.detection/liquid)
C	※ Capacitor (for MF)	TH23	Thermistor (piping temp.detection/gas)
I.B	Indoor controller board	SWA(A.B)	Switch (option parts)
A.B	Address board	SWC(A.B)	Switch (option parts)
TB2	Power source terminal bed	SW11(A.B)	Switch (1st digit address set)
TB5	Transmission terminal bed	SW12(A.B)	Switch (2nd digit address set)
TB15	Transmission terminal bed	SW14(A.B)	Switch (connection No.set)
F	Fuse AC250V 6.3A F	SW1(A.B)	Switch(for mode selection)
<F2>	Fuse AC250V 5A F	SW2(I.B)	Switch(for capacity code)
T	Transformer	SW3(I.B)	Switch(for mode selection)
<DP>	Drain pump	SW4(I.B)	Switch(for model selection)
<DS>	Drain sensor	SW5(A.B)	Switch(for voltage selection)
LEV	Electronic linear expan. valve	X1,X4	Aux.relay
TH21	Thermistor (inlet temp.detection)	S.B	Surge absorber board

Inside < > is the optional parts.

PDFY-P100,P125VM-E



※The following external static pressure indicate using fore-sided duct flange.

Connector color
White··· In case of used 50Pa.
Red ··· In case of used 100Pa or 70Pa included <h.e.f>.
Blue ··· In case of used 130Pa or 100Pa included <h.e.f>.
(<h.e.f>:high efficiency filter)

NOTE:1.TB2,TB5 shown in dotted line are field work.
2.Mark ⓪ indicates terminal bed, ⊖connector, ⊟board insertion connector or fastening connector of control board.
3. ——— - - - —— :optional parts

※Capacitor
MODELS 100 5.0μF
MODELS 125 8.0μF

SYMBOL EXPLANATION

SYMBOL	NAME	SYMBOL	NAME
MF	Fan motor	TH22	Thermistor (piping temp.detection/liquid)
C	※ Capacitor (for MF)	TH23	Thermistor (piping temp.detection/gas)
I.B	Indoor controller board	SWA(A.B)	Switch (option parts)
A.B	Address board	SWC(A.B)	Switch (option parts)
TB2	Power source terminal bed	SW11(A.B)	Switch (1st digit address set)
TB5	Transmission terminal bed	SW12(A.B)	Switch (2nd digit address set)
TB15	Transmission terminal bed	SW14(A.B)	Switch (connection No.set)
F	Fuse AC250V 6.3A F	SW1(A.B)	Switch(for mode selection)
<F2>	Fuse AC250V 5A F	SW2(I.B)	Switch(for capacity code)
T	Transformer	SW3(I.B)	Switch(for mode selection)
<DP>	Drain pump	SW4(I.B)	Switch(for model selection)
<DS>	Drain sensor	SW5(A.B)	Switch(for voltage selection)
LEV	Electronic linear expan. valve	X01,X04~X06	Aux.relay
TH21	Thermistor (inlet temp.detection)	S.B	Surge absorber board

Inside < > is the optional parts.

PDFY-P-VM-E

Description	Model	Applicable capacity
Drain water lift-up kit	PAC-KD02DM-F	P20/P25/P32/P40/P50 P63/P71/P80/P100/P125
Square duct flange	PAC-KD32KDF-F	P20/P25/P32
	PAC-KD50KDF-F	P40/P50
	PAC-KD80KDF-F	P63/P71/P80
	PAC-KD125KDF-F	P100/P125
Circular duct flange	PAC-KD32EDF-F	P20/P25/P32
	PAC-KD50EDF-F	P40/P50
	PAC-KD80EDF-F	P63/P71/P80
	PAC-KD125EDF-F	P100/P125
Filter box for rear suction	PAC-KD80RTB	P20/P25/P32
	PAC-KD81RTB	P40/P50
	PAC-KD83RTB	P63/P71/P80
	PAC-KD84RTB	P100/P125
Canvas duct for bottom suction	PAC-KD90DF	P20/P25/P32
	PAC-KD91DF	P40/P50
	PAC-KD93DF	P63/P71/P80
	PAC-KD94DF	P100/P125
Filter box for bottom suction	PAC-KD70TB	P20/P25/P32
	PAC-KD71TB	P40/P50
	PAC-KD73TB	P63/P71/P80
	PAC-KD74TB	P100/P125
High efficiency filter 65%	PAC-KD30AF	P20/P25/P32
	PAC-KD31AF	P40/P50
	PAC-KD33AF	P63/P71/P80
	PAC-KD34AF	P100/P125
High efficiency filter 90%	PAC-KD40AF	P20/P25/P32
	PAC-KD41AF	P40/P50
	PAC-KD43AF	P63/P71/P80
	PAC-KD44AF	P100/P125
Maintenance panel with air intake	CMP-J36DSW	P20/P25/P32
	CMP-J56DSW	P40/P50
	CMP-J90DSW	P63/P71/P80
	CMP-J160DSW	P100/P125

Floor standing(Exposed) PFFY-P-VLEM-E
Floor standing(Concealed) PFFY-P-VLRM-E

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Model Name	20	25	32	40	50	63	71	80	100	125	140	200	250
PFFY-P-VLEM-E	●	●	●	●	●	●							
PFFY-P-VLRM-E	●	●	●	●	●	●							

1. Specifications

			PFFY-P20VLEM-E	PFFY-P25VLEM-E	PFFY-P32VLEM-E	PFFY-P40VLEM-E	PFFY-P50VLEM-E	PFFY-P63VLEM-E
Power source			~ 220-240V 50Hz / ~ 208-230V 60Hz					
Cooling capacity	※1	kW	2.2	2.8	3.6	4.5	5.6	7.1
	※1	BTU/h	7,500	9,550	12,280	15,350	19,100	24,220
	※2	kW	2.3	2.9	3.7	4.7	5.8	7.3
	※2	kcal/h	2,000	2,500	3,150	4,000	5,000	6,300
Heating capacity	※1	kW	2.5	3.2	4.0	5.0	6.3	8.0
	※1	BTU/h	8,530	10,750	13,640	17,060	21,500	27,290
	※2	kW	2.6	3.3	4.1	5.2	6.5	8.3
	※2	kcal/h	2,250	2,800	3,550	4,500	5,600	7,100
Power consumption	Cooling	kW	0.04 / 0.06		0.06 / 0.07	0.065 / 0.075	0.085 / 0.09	0.1 / 0.11
	Heating	kW	0.04 / 0.06		0.06 / 0.07	0.065 / 0.075	0.085 / 0.09	0.1 / 0.11
Current	Cooling	A	0.19 / 0.25		0.29 / 0.30	0.32 / 0.33	0.40 / 0.41	0.46 / 0.47
	Heating	A	0.19 / 0.25		0.29 / 0.30	0.32 / 0.33	0.40 / 0.41	0.46 / 0.47
External finish(Munsel No.)			Acrylic paint (5Y 8/1)					
Dimension H x W x D		mm	630 x 1,050 x 220		630 x 1,170 x 220		630 x 1,410 x 220	
Net weight		kg	23		25	26	30	32
Heat exchanger			Cross fin (Aluminum plate fin and copper tube)					
Fan	Type		Sirocco fan× 1		Sirocco fan× 2			
	Airflow rate (Low-High) ※3	m^3/min	5.5-6.5		7.0-9.0	9.0-11.0	12.0-14.0	12.0-15.5
	External static pressure	Pa	0					
Motor	Type		Single phase induction motor					
	Output	kW	0.02		0.03	0.035		0.045
Air filter			PP Honeycomb fabric (washable)					
Refrigerant pipe dimension	Gas (Flare)	mm	ø 12.7				ø 12.7 (R410A) ø 15.88 (R22,R407C)	ø 15.88
	Liquid (Flare)	mm	ø 6.35				ø 6.35 (R410A) ø 9.52 (R22,R407C)	ø 9.52
Drain pipe dimension			Accessary hose ø 27 (top end : ø 20)					
Noise level (Low-High) ※3 ※4 ※5		dB(A)	34-40		35-40	38-43		40-46

			PFFY-P20VLRM-E	PFFY-P25VLRM-E	PFFY-P32VLRM-E	PFFY-P40VLRM-E	PFFY-P50VLRM-E	PFFY-P63VLRM-E
Power source			~ 220-240V 50Hz / ~ 208-230V 60Hz					
Cooling capacity	※1	kW	2.2	2.8	3.6	4.5	5.6	7.1
	※1	BTU/h	7,500	9,550	12,280	15,350	19,100	24,220
	※2	kW	2.3	2.9	3.7	4.7	5.8	7.3
	※2	kcal/h	2,000	2,500	3,150	4,000	5,000	6,300
Heating capacity	※1	kW	2.5	3.2	4.0	5.0	6.3	8.0
	※1	BTU/h	8,530	10,750	13,640	17,060	21,500	27,290
	※2	kW	2.6	3.3	4.1	5.2	6.5	8.3
	※2	kcal/h	2,250	2,800	3,550	4,500	5,600	7,100
Power consumption	Cooling	kW	0.04 / 0.06		0.06 / 0.07	0.065 / 0.075	0.085 / 0.09	0.1 / 0.11
	Heating	kW	0.04 / 0.06		0.06 / 0.07	0.065 / 0.075	0.085 / 0.09	0.1 / 0.11
Current	Cooling	A	0.19 / 0.25		0.29 / 0.30	0.32 / 0.33	0.40 / 0.41	0.46 / 0.47
	Heating	A	0.19 / 0.25		0.29 / 0.30	0.32 / 0.33	0.40 / 0.41	0.46 / 0.47
External finish(Munsel No.)			Galvanizing					
Dimension H x W x D		mm	639 x 886 x 220		639 x 1,006 x 220		639 x 1,246 x 220	
Net weight		kg	18.5		20	21	25	27
Heat exchanger			Cross fin (Aluminum plate fin and copper tube)					
Fan	Type		Sirocco fan× 1		Sirocco fan× 2			
	Airflow rate (Low-High) ※3	m^3/min	5.5-6.5		7.0-9.0	9.0-11.0	12.0-14.0	12.0-15.5
	External static pressure	Pa	0					
Motor	Type		Single phase induction motor					
	Output	kW	0.02		0.03	0.035		0.045
Air filter			PP Honeycomb fabric (washable)					
Refrigerant pipe dimension	Gas (Flare)	mm	ø 12.7				ø 12.7 (R410A) ø 15.88 (R22,R407C)	ø 15.88
	Liquid (Flare)	mm	ø 6.35				ø 6.35 (R410A) ø 9.52 (R22,R407C)	ø 9.52
Drain pipe dimension			Accessary hose ø 27 (top end : ø 20)					
Noise level (Low-High) ※3 ※4 ※5		dB(A)	34-40		35-40	38-43		40-46

Note: ※1 Cooling/Heating capacity indicates the maximum value at operation under the following condition.
Cooling : Indoor 27˚CDB/19˚CWB,Outdoor 35˚CDB
Heating : Indoor 20˚CDB,Outdoor 7˚CDB/6˚CWB
※2 Cooling capacity indicates the maximum value at operation under the following condition.
Cooling : Indoor 27˚CDB/19.5˚CWB,Outdoor 35˚CDB (WR2: water 30˚C)
Heating : Indoor 21˚CDB,Outdoor 7˚CDB/6˚CWB (WR2: water 20˚C)
※3 Air flow rate/noise level are in (Low-High)
※4 Measured point : 1m×1m, Power supply : AC240V/50Hz
·1dB(A) lower at AC230V/50Hz
·2dB(A) lower at AC220V/50Hz
·3dB(A) lower at 1.5m×1.5m point
※5 It is measured in anechoic room.

2. Capacity Tables

2.1a. Cooling capacity in combination with PUHY,PUY,PURY-P200,250YGM

PFFY-P-VLEM-E,VLRM-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.0	1.8	2.1	1.9	2.3	1.9	2.4	2.0	2.4	2.1	2.6	2.0	2.8	2.0
	22.5	2.0	1.8	2.1	1.9	2.3	1.9	2.4	2.0	2.4	2.1	2.6	2.0	2.8	2.0
	25.0	2.0	1.8	2.1	1.9	2.3	1.9	2.4	2.0	2.4	2.1	2.6	2.0	2.7	2.0
	27.5	2.0	1.8	2.1	1.9	2.2	1.9	2.3	2.0	2.4	2.0	2.5	2.0	2.7	2.0
	30.0	1.9	1.8	2.0	1.9	2.2	1.9	2.3	2.0	2.3	2.0	2.5	2.0	2.6	2.0
	32.5	1.9	1.8	2.0	1.9	2.1	1.9	2.2	1.9	2.3	2.0	2.4	2.0	2.6	2.0
	35.0	1.9	1.8	2.0	1.9	2.1	1.9	2.2	1.9	2.2	2.0	2.4	2.0	2.5	1.9
	37.5	1.8	1.8	1.9	1.9	2.0	1.8	2.1	1.9	2.2	2.0	2.3	2.0	2.5	1.9
	40.0	1.8	1.8	1.9	1.8	2.0	1.8	2.1	1.9	2.1	2.0	2.3	1.9	2.4	1.9
	43.0	1.8	1.7	1.8	1.8	2.0	1.8	2.0	1.9	2.0	1.9	2.2	1.9	2.4	1.9
25 (2.8)	20.0	2.5	2.1	2.7	2.2	2.9	2.2	3.0	2.2	3.1	2.3	3.3	2.3	3.5	2.3
	22.5	2.5	2.1	2.7	2.2	2.9	2.2	3.0	2.2	3.1	2.3	3.3	2.3	3.5	2.3
	25.0	2.5	2.1	2.7	2.2	2.9	2.2	3.0	2.2	3.1	2.3	3.3	2.3	3.5	2.3
	27.5	2.5	2.1	2.6	2.2	2.8	2.2	3.0	2.2	3.0	2.3	3.2	2.3	3.4	2.2
	30.0	2.5	2.0	2.6	2.1	2.8	2.1	2.9	2.2	3.0	2.3	3.1	2.2	3.3	2.2
	32.5	2.4	2.0	2.5	2.1	2.7	2.1	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.2
	35.0	2.4	2.0	2.5	2.1	2.7	2.1	2.8	2.2	2.8	2.2	3.0	2.2	3.2	2.2
	37.5	2.4	2.0	2.5	2.1	2.6	2.1	2.7	2.1	2.8	2.2	3.0	2.2	3.1	2.1
	40.0	2.3	2.0	2.4	2.1	2.6	2.0	2.7	2.1	2.7	2.2	2.9	2.2	3.1	2.1
	43.0	2.3	2.0	2.4	2.0	2.5	2.0	2.6	2.1	2.6	2.1	2.8	2.1	3.0	2.1
32 (3.6)	20.0	3.2	2.4	3.4	2.5	3.7	2.5	3.9	2.6	4.0	2.6	4.2	2.6	4.6	2.6
	22.5	3.2	2.4	3.4	2.5	3.7	2.5	3.9	2.6	4.0	2.6	4.2	2.6	4.6	2.6
	25.0	3.2	2.4	3.4	2.5	3.7	2.5	3.9	2.6	4.0	2.6	4.2	2.6	4.5	2.6
	27.5	3.2	2.4	3.4	2.5	3.6	2.5	3.8	2.5	3.9	2.6	4.1	2.6	4.4	2.5
	30.0	3.2	2.4	3.3	2.5	3.6	2.4	3.7	2.5	3.8	2.6	4.0	2.5	4.3	2.5
	32.5	3.1	2.3	3.3	2.4	3.5	2.4	3.7	2.5	3.7	2.5	4.0	2.5	4.2	2.5
	35.0	3.1	2.3	3.2	2.4	3.4	2.4	3.6	2.4	3.7	2.5	3.9	2.5	4.1	2.4
	37.5	3.0	2.3	3.2	2.4	3.3	2.3	3.5	2.4	3.6	2.5	3.8	2.5	4.0	2.4
	40.0	3.0	2.3	3.1	2.3	3.3	2.3	3.5	2.4	3.5	2.4	3.7	2.4	4.0	2.4
	43.0	2.9	2.2	3.0	2.3	3.2	2.3	3.3	2.3	3.3	2.4	3.6	2.4	3.9	2.3
40 (4.5)	20.0	4.0	3.0	4.3	3.1	4.6	3.1	4.9	3.2	5.0	3.3	5.3	3.3	5.7	3.3
	22.5	4.0	3.0	4.3	3.1	4.6	3.1	4.9	3.2	5.0	3.3	5.3	3.3	5.7	3.3
	25.0	4.0	3.0	4.3	3.1	4.6	3.1	4.9	3.2	5.0	3.3	5.3	3.3	5.6	3.2
	27.5	4.0	3.0	4.3	3.1	4.5	3.1	4.8	3.2	4.8	3.3	5.2	3.2	5.5	3.2
	30.0	4.0	3.0	4.2	3.1	4.5	3.1	4.7	3.1	4.8	3.2	5.0	3.2	5.4	3.2
	32.5	3.9	2.9	4.1	3.0	4.4	3.0	4.6	3.1	4.7	3.2	5.0	3.2	5.3	3.1
	35.0	3.8	2.9	4.0	3.0	4.3	3.0	4.5	3.1	4.6	3.2	4.9	3.1	5.2	3.1
	37.5	3.8	2.9	4.0	3.0	4.2	2.9	4.4	3.0	4.5	3.1	4.8	3.1	5.0	3.0
	40.0	3.7	2.8	3.9	2.9	4.1	2.9	4.3	3.0	4.4	3.1	4.7	3.0	5.0	3.0
	43.0	3.6	2.8	3.8	2.9	4.0	2.9	4.2	2.9	4.2	3.0	4.5	3.0	4.8	3.0
50 (5.6)	20.0	5.0	3.8	5.3	4.0	5.8	4.0	6.0	4.1	6.2	4.2	6.6	4.2	7.1	4.1
	22.5	5.0	3.8	5.3	4.0	5.8	4.0	6.0	4.1	6.2	4.2	6.6	4.2	7.1	4.1
	25.0	5.0	3.8	5.3	4.0	5.8	4.0	6.0	4.1	6.2	4.2	6.6	4.2	6.9	4.1
	27.5	5.0	3.8	5.3	4.0	5.7	3.9	5.9	4.0	6.0	4.1	6.4	4.1	6.8	4.0
	30.0	4.9	3.7	5.2	3.9	5.5	3.9	5.8	4.0	5.9	4.1	6.3	4.0	6.7	4.0
	32.5	4.8	3.7	5.1	3.9	5.4	3.8	5.7	3.9	5.8	4.0	6.2	4.0	6.6	3.9
	35.0	4.8	3.7	5.0	3.8	5.3	3.8	5.6	3.9	5.7	4.0	6.0	4.0	6.4	3.9
	37.5	4.7	3.6	4.9	3.8	5.2	3.7	5.5	3.8	5.5	3.9	5.9	3.9	6.3	3.8
	40.0	4.6	3.6	4.8	3.7	5.1	3.7	5.4	3.8	5.5	3.9	5.8	3.9	6.2	3.8
	43.0	4.5	3.5	4.7	3.7	5.0	3.6	5.2	3.7	5.2	3.8	5.7	3.8	6.0	3.7
63 (7.1)	20.0	6.4	4.7	6.8	4.9	7.3	4.9	7.7	5.0	7.8	5.2	8.4	5.1	9.0	5.1
	22.5	6.4	4.7	6.8	4.9	7.3	4.9	7.7	5.0	7.8	5.2	8.4	5.1	9.0	5.1
	25.0	6.4	4.7	6.8	4.9	7.3	4.9	7.7	5.0	7.8	5.2	8.3	5.1	8.8	5.0
	27.5	6.3	4.7	6.7	4.9	7.2	4.9	7.5	5.0	7.6	5.1	8.1	5.0	8.7	5.0
	30.0	6.2	4.6	6.6	4.8	7.0	4.8	7.4	4.9	7.5	5.1	8.0	5.0	8.5	4.9
	32.5	6.1	4.5	6.5	4.8	6.9	4.7	7.2	4.8	7.3	5.0	7.8	4.9	8.3	4.9
	35.0	6.0	4.5	6.4	4.7	6.7	4.7	7.1	4.8	7.2	4.9	7.7	4.9	8.1	4.8
	37.5	6.0	4.5	6.2	4.7	6.6	4.6	6.9	4.7	7.0	4.8	7.5	4.8	8.0	4.7
	40.0	5.9	4.4	6.1	4.6	6.5	4.5	6.8	4.7	6.9	4.8	7.3	4.7	7.8	4.7
	43.0	5.8	4.4	6.0	4.5	6.3	4.5	6.6	4.6	6.6	4.7	7.2	4.7	7.6	4.6

2.1b. Heating capacity in combination with PUHY,PUY,PURY-P200,250YGM

PFFY-P-VLEM-E,VLRM-E SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
20 (2.2)	-20.0	1.3	1.3	1.3	1.3
	-15.0	1.6	1.5	1.5	1.5
	-10.0	1.8	1.8	1.8	1.7
	-5.0	2.1	2.1	2.0	1.8
	0.0	2.4	2.4	2.0	1.8
	2.5	2.5	2.5	2.0	1.8
	6.0	2.6	2.5	2.0	1.8
	7.5	2.7	2.5	2.0	1.8
	10.0	2.9	2.5	2.0	1.8
	12.5	3.0	2.5	2.0	1.8
	15.5	3.2	2.5	2.0	1.8
25 (2.8)	-20.0	1.6	1.6	1.6	1.6
	-15.0	2.0	2.0	1.9	1.9
	-10.0	2.3	2.3	2.2	2.2
	-5.0	2.7	2.7	2.6	2.2
	0.0	3.0	3.0	2.6	2.2
	2.5	3.2	3.2	2.6	2.2
	6.0	3.3	3.2	2.6	2.2
	7.5	3.4	3.2	2.6	2.2
	10.0	3.6	3.2	2.6	2.2
	12.5	3.9	3.2	2.6	2.2
	15.5	4.1	3.2	2.6	2.2
32 (3.6)	-20.0	2.1	2.0	2.0	2.0
	-15.0	2.5	2.4	2.4	2.4
	-10.0	2.9	2.9	2.8	2.7
	-5.0	3.4	3.3	3.2	2.8
	0.0	3.8	3.8	3.2	2.8
	2.5	4.0	4.0	3.2	2.8
	6.0	4.2	4.0	3.2	2.8
	7.5	4.3	4.0	3.2	2.8
	10.0	4.6	4.0	3.2	2.8
	12.5	4.8	4.0	3.2	2.8
	15.5	5.1	4.0	3.2	2.8
40 (4.5)	-20.0	2.6	2.5	2.5	2.5
	-15.0	3.1	3.1	3.0	3.0
	-10.0	3.7	3.6	3.5	3.4
	-5.0	4.2	4.2	4.0	3.5
	0.0	4.7	4.7	4.0	3.5
	2.5	5.0	5.0	4.0	3.5
	6.0	5.2	5.0	4.0	3.5
	7.5	5.4	5.0	4.0	3.5
	10.0	5.7	5.0	4.0	3.5
	12.5	6.0	5.0	4.0	3.5
	15.5	6.4	5.0	4.0	3.5
50 (5.6)	-20.0	3.2	3.2	3.2	3.2
	-15.0	3.9	3.8	3.8	3.7
	-10.0	4.6	4.5	4.4	4.3
	-5.0	5.3	5.2	5.0	4.4
	0.0	6.0	5.9	5.0	4.4
	2.5	6.3	6.2	5.0	4.4
	6.0	6.6	6.3	5.0	4.4
	7.5	6.8	6.3	5.0	4.4
	10.0	7.2	6.3	5.0	4.4
	12.5	7.6	6.3	5.0	4.4
	15.5	8.1	6.3	5.0	4.4
63 (7.1)	-20.0	4.1	4.0	4.0	4.0
	-15.0	5.0	4.9	4.8	4.7
	-10.0	5.8	5.8	5.6	5.5
	-5.0	6.7	6.6	6.4	5.6
	0.0	7.6	7.5	6.4	5.6
	2.5	8.0	7.9	6.4	5.6
	6.0	8.3	8.0	6.4	5.6
	7.5	8.6	8.0	6.4	5.6
	10.0	9.1	8.0	6.4	5.6
	12.5	9.6	8.0	6.4	5.6
	15.5	10.2	8.0	6.4	5.6

2.2a. Cooling capacity in combination with PUHY,PUY,PURY-P300,350,400YGM

PFFY-P-VLEM-E,VLRM-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.9	2.2	2.0	2.4	2.0	2.5	2.0	2.5	2.1	2.7	2.1	2.9	2.1
	22.5	2.1	1.9	2.2	2.0	2.3	2.0	2.4	2.0	2.5	2.1	2.6	2.1	2.8	2.0
	25.0	2.1	1.9	2.2	1.9	2.3	1.9	2.4	2.0	2.4	2.1	2.6	2.0	2.8	2.0
	27.5	2.1	1.9	2.1	1.9	2.3	1.9	2.3	2.0	2.4	2.1	2.5	2.0	2.7	2.0
	30.0	2.0	1.8	2.1	1.9	2.2	1.9	2.3	2.0	2.4	2.0	2.5	2.0	2.6	2.0
	32.5	2.0	1.8	2.0	1.9	2.2	1.9	2.2	1.9	2.3	2.0	2.4	2.0	2.6	2.0
	35.0	2.0	1.8	2.0	1.9	2.1	1.9	2.2	1.9	2.3	2.0	2.4	2.0	2.5	2.0
	37.5	1.9	1.8	1.9	1.9	2.1	1.8	2.1	1.9	2.2	2.0	2.4	2.0	2.5	1.9
	40.0	1.9	1.8	1.9	1.8	2.0	1.8	2.1	1.9	2.4	2.0	2.3	1.9	2.4	1.9
	43.0	1.8	1.8	1.8	1.8	2.0	1.8	2.0	1.9	2.1	1.9	2.2	1.9	2.4	1.9
25 (2.8)	20.0	2.7	2.2	2.8	2.2	3.0	2.2	3.1	2.3	3.2	2.4	3.4	2.3	3.6	2.3
	22.5	2.7	2.2	2.8	2.2	3.0	2.2	3.1	2.3	3.2	2.4	3.4	2.3	3.6	2.3
	25.0	2.7	2.1	2.7	2.2	2.9	2.2	3.0	2.2	3.1	2.3	3.3	2.3	3.5	2.3
	27.5	2.6	2.1	2.7	2.2	2.9	2.2	3.0	2.2	3.1	2.3	3.2	2.3	3.4	2.2
	30.0	2.6	2.1	2.6	2.2	2.8	2.1	2.9	2.2	3.0	2.3	3.2	2.3	3.4	2.2
	32.5	2.5	2.1	2.6	2.1	2.8	2.1	2.9	2.2	2.9	2.3	3.1	2.2	3.3	2.2
	35.0	2.5	2.1	2.5	2.1	2.7	2.1	2.8	2.2	2.9	2.2	3.1	2.2	3.2	2.2
	37.5	2.5	2.0	2.5	2.1	2.6	2.1	2.7	2.1	2.8	2.2	3.0	2.2	3.2	2.2
	40.0	2.4	2.0	2.4	2.1	2.6	2.1	2.7	2.1	3.0	2.3	2.9	2.2	3.1	2.1
	43.0	2.4	2.0	2.4	2.0	2.5	2.0	2.6	2.1	2.7	2.2	2.8	2.1	3.0	2.1
32 (3.6)	20.0	3.5	2.5	3.6	2.6	3.9	2.6	4.0	2.6	4.2	2.7	4.4	2.7	4.7	2.7
	22.5	3.5	2.5	3.6	2.6	3.8	2.6	4.0	2.6	4.1	2.7	4.3	2.7	4.6	2.6
	25.0	3.4	2.5	3.5	2.5	3.8	2.5	3.9	2.6	4.0	2.7	4.2	2.6	4.5	2.6
	27.5	3.4	2.5	3.5	2.5	3.7	2.5	3.8	2.5	3.9	2.6	4.2	2.6	4.4	2.5
	30.0	3.3	2.4	3.4	2.5	3.6	2.5	3.7	2.5	3.9	2.6	4.1	2.6	4.3	2.5
	32.5	3.3	2.4	3.3	2.5	3.5	2.4	3.7	2.5	3.8	2.6	4.0	2.5	4.2	2.5
	35.0	3.2	2.4	3.3	2.4	3.5	2.4	3.6	2.4	3.7	2.5	3.9	2.5	4.2	2.5
	37.5	3.2	2.4	3.2	2.4	3.4	2.4	3.5	2.4	3.6	2.5	3.9	2.5	4.1	2.4
	40.0	3.1	2.3	3.1	2.3	3.3	2.3	3.4	2.4	3.9	2.6	3.8	2.4	4.0	2.4
	43.0	3.0	2.3	3.0	2.3	3.2	2.3	3.3	2.3	3.4	2.4	3.7	2.4	3.9	2.4
40 (4.5)	20.0	4.4	3.2	4.5	3.3	4.9	3.3	5.0	3.3	5.2	3.4	5.5	3.4	5.9	3.3
	22.5	4.3	3.1	4.5	3.2	4.8	3.2	5.0	3.3	5.1	3.4	5.4	3.3	5.7	3.3
	25.0	4.3	3.1	4.4	3.2	4.7	3.2	4.9	3.2	5.0	3.3	5.3	3.3	5.6	3.2
	27.5	4.2	3.1	4.3	3.2	4.6	3.1	4.8	3.2	4.9	3.3	5.2	3.3	5.5	3.2
	30.0	4.1	3.0	4.2	3.1	4.5	3.1	4.7	3.1	4.8	3.3	5.1	3.2	5.4	3.2
	32.5	4.1	3.0	4.2	3.1	4.4	3.1	4.6	3.1	4.7	3.2	5.0	3.2	5.3	3.1
	35.0	4.0	3.0	4.1	3.0	4.3	3.0	4.5	3.1	4.6	3.2	4.9	3.1	5.2	3.1
	37.5	4.0	3.0	4.0	3.0	4.3	3.0	4.4	3.0	4.5	3.1	4.8	3.1	5.1	3.1
	40.0	3.9	2.9	3.9	3.0	4.2	2.9	4.3	3.0	4.9	3.3	4.7	3.1	5.0	3.0
	43.0	3.8	2.9	3.8	2.9	4.1	2.9	4.2	2.9	4.3	3.0	4.6	3.0	4.8	3.0
50 (5.6)	20.0	5.4	4.0	5.6	4.1	6.0	4.1	6.3	4.2	6.5	4.3	6.9	4.3	7.3	4.2
	22.5	5.4	4.0	5.6	4.1	6.0	4.1	6.2	4.1	6.4	4.3	6.7	4.2	7.1	4.2
	25.0	5.3	3.9	5.5	4.0	5.9	4.0	6.0	4.1	6.2	4.2	6.6	4.2	7.0	4.1
	27.5	5.2	3.9	5.4	4.0	5.7	4.0	5.9	4.0	6.1	4.2	6.5	4.1	6.9	4.1
	30.0	5.2	3.8	5.3	3.9	5.6	3.9	5.8	4.0	6.0	4.1	6.4	4.1	6.7	4.0
	32.5	5.1	3.8	5.2	3.9	5.5	3.9	5.7	3.9	5.9	4.1	6.2	4.0	6.6	4.0
	35.0	5.0	3.8	5.1	3.8	5.4	3.8	5.6	3.9	5.8	4.0	6.1	4.0	6.5	3.9
	37.5	4.9	3.7	5.0	3.8	5.3	3.8	5.5	3.8	5.7	4.0	6.0	3.9	6.3	3.9
	40.0	4.8	3.7	4.8	3.7	5.2	3.7	5.3	3.8	6.1	4.2	5.9	3.9	6.2	3.8
	43.0	4.7	3.6	4.7	3.7	5.0	3.7	5.2	3.7	5.3	3.9	5.7	3.8	6.0	3.8
63 (7.1)	20.0	6.9	4.9	7.1	5.1	7.7	5.1	8.0	5.2	8.2	5.4	8.7	5.3	9.2	5.2
	22.5	6.9	4.9	7.1	5.1	7.6	5.0	7.8	5.1	8.1	5.3	8.5	5.2	9.1	5.1
	25.0	6.8	4.9	7.0	5.0	7.4	5.0	7.7	5.0	7.9	5.2	8.4	5.1	8.9	5.1
	27.5	6.6	4.8	6.8	4.9	7.3	4.9	7.5	5.0	7.8	5.2	8.2	5.1	8.7	5.0
	30.0	6.5	4.8	6.7	4.9	7.1	4.8	7.4	4.9	7.6	5.1	8.1	5.0	8.5	4.9
	32.5	6.4	4.7	6.6	4.8	7.0	4.8	7.2	4.9	7.5	5.0	7.9	4.9	8.4	4.9
	35.0	6.3	4.7	6.4	4.7	6.8	4.7	7.1	4.8	7.3	5.0	7.7	4.9	8.2	4.8
	37.5	6.2	4.6	6.3	4.7	6.7	4.6	6.9	4.7	7.2	4.9	7.6	4.8	8.0	4.8
	40.0	6.1	4.6	6.1	4.6	6.6	4.6	6.8	4.7	7.7	5.1	7.4	4.8	7.8	4.7
	43.0	6.0	4.5	6.0	4.5	6.4	4.5	6.6	4.6	6.8	4.7	7.2	4.7	7.6	4.6

2.2b. Heating capacity in combination with PUHY,PUY,PURY-P300,350,400YGM

PFFY-P-VLEM-E,VLRM-E SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
20 (2.2)	-20.0	1.3	1.3	1.3	1.2
	-15.0	1.5	1.5	1.5	1.5
	-10.0	1.8	1.8	1.7	1.6
	-5.0	2.0	2.0	1.9	1.6
	0.0	2.3	2.3	1.9	1.6
	2.5	2.4	2.4	1.9	1.6
	6.0	2.6	2.5	1.9	1.6
	7.5	2.7	2.5	1.9	1.6
	10.0	2.8	2.5	1.9	1.6
	12.5	2.9	2.5	1.9	1.6
	15.5	2.9	2.5	1.9	1.6
25 (2.8)	-20.0	1.7	1.6	1.6	1.5
	-15.0	1.9	1.9	1.9	1.9
	-10.0	2.2	2.2	2.2	2.0
	-5.0	2.6	2.6	2.4	2.0
	0.0	2.9	2.9	2.4	2.0
	2.5	3.1	3.0	2.4	2.0
	6.0	3.3	3.2	2.4	2.0
	7.5	3.4	3.2	2.4	2.0
	10.0	3.5	3.2	2.4	2.0
	12.5	3.7	3.2	2.4	2.0
	15.5	3.7	3.2	2.4	2.0
32 (3.6)	-20.0	2.1	2.0	2.0	1.9
	-15.0	2.4	2.4	2.4	2.3
	-10.0	2.8	2.8	2.7	2.6
	-5.0	3.2	3.2	3.0	2.6
	0.0	3.6	3.6	3.0	2.6
	2.5	3.8	3.8	3.0	2.6
	6.0	4.1	4.0	3.0	2.6
	7.5	4.2	4.0	3.0	2.6
	10.0	4.4	4.0	3.0	2.6
	12.5	4.6	4.0	3.0	2.6
	15.5	4.6	4.0	3.0	2.6
40 (4.5)	-20.0	2.6	2.5	2.5	2.4
	-15.0	3.0	3.0	3.0	2.9
	-10.0	3.5	3.5	3.4	3.2
	-5.0	4.0	4.0	3.8	3.2
	0.0	4.5	4.5	3.8	3.2
	2.5	4.8	4.7	3.8	3.2
	6.0	5.1	5.0	3.8	3.2
	7.5	5.3	5.0	3.8	3.2
	10.0	5.5	5.0	3.8	3.2
	12.5	5.8	5.0	3.8	3.2
	15.5	5.8	5.0	3.8	3.2
50 (5.6)	-20.0	3.3	3.2	3.2	3.0
	-15.0	3.8	3.8	3.8	3.7
	-10.0	4.4	4.4	4.3	4.0
	-5.0	5.0	5.0	4.7	4.0
	0.0	5.7	5.7	4.7	4.0
	2.5	6.0	6.0	4.7	4.0
	6.0	6.5	6.3	4.7	4.0
	7.5	6.7	6.3	4.7	4.0
	10.0	7.0	6.3	4.7	4.0
	12.5	7.2	6.3	4.7	4.0
	15.5	7.2	6.3	4.7	4.0
63 (7.1)	-20.0	4.2	4.0	4.0	3.8
	-15.0	4.8	4.8	4.8	4.6
	-10.0	5.6	5.6	5.5	5.1
	-5.0	6.4	6.4	6.0	5.1
	0.0	7.2	7.2	6.0	5.1
	2.5	7.6	7.6	6.0	5.1
	6.0	8.2	8.0	6.0	5.1
	7.5	8.5	8.0	6.0	5.1
	10.0	8.8	8.0	6.0	5.1
	12.5	9.2	8.0	6.0	5.1
	15.5	9.2	8.0	6.0	5.1

2.3a. Cooling capacity in combination with PUHY,PURY-P450,500,550,600,650YGM

PFFY-P-VLEM-E,VLRM-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.9	2.1	1.9	2.3	1.9	2.4	2.0	2.5	2.1	2.6	2.0	2.8	2.0
	22.5	2.1	1.9	2.1	1.9	2.3	1.9	2.3	2.0	2.4	2.1	2.6	2.0	2.7	2.0
	25.0	2.0	1.9	2.1	1.9	2.2	1.9	2.3	2.0	2.4	2.1	2.6	2.0	2.7	2.0
	27.5	2.0	1.8	2.1	1.9	2.2	1.9	2.3	2.0	2.4	2.0	2.5	2.0	2.6	2.0
	30.0	2.0	1.8	2.0	1.9	2.2	1.9	2.3	1.9	2.4	2.0	2.5	2.0	2.7	2.0
	32.5	2.0	1.8	2.0	1.9	2.2	1.9	2.2	1.9	2.3	2.0	2.5	2.0	2.6	2.0
	35.0	2.0	1.8	2.0	1.9	2.1	1.9	2.2	1.9	2.3	2.0	2.5	2.0	2.6	2.0
	37.5	1.9	1.8	2.0	1.9	2.1	1.9	2.2	1.9	2.3	2.0	2.4	2.0	2.6	2.0
	40.0	1.9	1.8	1.9	1.9	2.1	1.9	2.1	1.9	2.2	2.0	2.4	2.0	2.6	2.0
	43.0	1.9	1.8	1.9	1.8	2.1	1.8	2.1	1.9	2.2	2.0	2.4	2.0	2.6	2.0
25 (2.8)	20.0	2.6	2.1	2.7	2.2	2.9	2.2	3.0	2.2	3.1	2.3	3.3	2.3	3.5	2.3
	22.5	2.6	2.1	2.7	2.2	2.9	2.2	3.0	2.2	3.1	2.3	3.3	2.3	3.5	2.3
	25.0	2.6	2.1	2.7	2.2	2.9	2.2	2.9	2.2	3.1	2.3	3.2	2.3	3.5	2.3
	27.5	2.6	2.1	2.6	2.2	2.8	2.2	2.9	2.2	3.0	2.3	3.2	2.3	3.4	2.2
	30.0	2.5	2.1	2.6	2.1	2.8	2.1	2.9	2.2	3.0	2.3	3.2	2.3	3.4	2.2
	32.5	2.5	2.1	2.6	2.1	2.7	2.1	2.8	2.2	3.0	2.3	3.2	2.2	3.4	2.2
	35.0	2.5	2.1	2.5	2.1	2.7	2.1	2.8	2.2	2.9	2.3	3.1	2.2	3.3	2.2
	37.5	2.5	2.0	2.5	2.1	2.7	2.1	2.8	2.1	2.9	2.2	3.1	2.2	3.3	2.2
	40.0	2.4	2.0	2.5	2.1	2.7	2.1	2.7	2.1	2.9	2.2	3.1	2.2	3.3	2.2
	43.0	2.4	2.0	2.5	2.1	2.6	2.1	2.7	2.1	2.8	2.2	3.0	2.2	3.2	2.2
32 (3.6)	20.0	3.4	2.5	3.5	2.5	3.7	2.5	3.9	2.6	4.0	2.7	4.2	2.6	4.5	2.6
	22.5	3.4	2.5	3.5	2.5	3.7	2.5	3.8	2.5	4.0	2.6	4.2	2.6	4.5	2.6
	25.0	3.3	2.4	3.4	2.5	3.7	2.5	3.8	2.5	3.9	2.6	4.2	2.6	4.4	2.6
	27.5	3.3	2.4	3.4	2.5	3.6	2.5	3.7	2.5	3.9	2.6	4.1	2.6	4.3	2.5
	30.0	3.3	2.4	3.3	2.5	3.6	2.5	3.7	2.5	3.9	2.6	4.1	2.6	4.4	2.5
	32.5	3.2	2.4	3.3	2.4	3.5	2.4	3.6	2.5	3.8	2.6	4.1	2.6	4.3	2.5
	35.0	3.2	2.4	3.3	2.4	3.5	2.4	3.6	2.4	3.7	2.5	4.0	2.5	4.3	2.5
	37.5	3.2	2.4	3.2	2.4	3.5	2.4	3.5	2.4	3.7	2.5	4.0	2.5	4.2	2.5
	40.0	3.1	2.3	3.2	2.4	3.4	2.4	3.5	2.4	3.7	2.5	4.0	2.5	4.2	2.5
	43.0	3.1	2.3	3.2	2.4	3.4	2.4	3.5	2.4	3.6	2.5	3.9	2.5	4.2	2.5
40 (4.5)	20.0	4.3	3.1	4.4	3.2	4.7	3.2	4.8	3.2	5.0	3.3	5.3	3.3	5.7	3.3
	22.5	4.2	3.1	4.3	3.2	4.6	3.1	4.8	3.2	5.0	3.3	5.3	3.3	5.6	3.2
	25.0	4.2	3.1	4.3	3.1	4.6	3.1	4.7	3.2	4.9	3.3	5.2	3.3	5.6	3.2
	27.5	4.1	3.0	4.2	3.1	4.5	3.1	4.7	3.1	4.9	3.3	5.2	3.2	5.4	3.2
	30.0	4.1	3.0	4.2	3.1	4.5	3.1	4.6	3.1	4.8	3.3	5.1	3.2	5.4	3.2
	32.5	4.1	3.0	4.1	3.1	4.4	3.0	4.5	3.1	4.8	3.2	5.1	3.2	5.4	3.2
	35.0	4.0	3.0	4.1	3.0	4.4	3.0	4.5	3.1	4.7	3.2	5.0	3.2	5.4	3.1
	37.5	4.0	3.0	4.0	3.0	4.3	3.0	4.4	3.0	4.7	3.2	5.0	3.2	5.3	3.1
	40.0	3.9	2.9	4.0	3.0	4.3	3.0	4.4	3.0	4.6	3.2	5.0	3.2	5.3	3.1
	43.0	3.9	2.9	3.9	3.0	4.2	3.0	4.3	3.0	4.5	3.1	4.9	3.1	5.2	3.1
50 (5.6)	20.0	5.3	3.9	5.5	4.0	5.8	4.0	6.0	4.1	6.2	4.2	6.6	4.2	7.1	4.1
	22.5	5.3	3.9	5.4	4.0	5.8	4.0	5.9	4.0	6.2	4.2	6.6	4.2	7.0	4.1
	25.0	5.2	3.9	5.3	4.0	5.7	4.0	5.9	4.0	6.1	4.2	6.5	4.1	6.9	4.1
	27.5	5.2	3.8	5.3	3.9	5.7	3.9	5.8	4.0	6.0	4.2	6.4	4.1	6.7	4.0
	30.0	5.1	3.8	5.2	3.9	5.6	3.9	5.8	4.0	6.0	4.1	6.4	4.1	6.8	4.0
	32.5	5.0	3.8	5.2	3.9	5.5	3.9	5.7	3.9	5.9	4.1	6.3	4.1	6.7	4.0
	35.0	5.0	3.8	5.1	3.8	5.5	3.8	5.6	3.9	5.8	4.1	6.3	4.0	6.7	4.0
	37.5	4.9	3.7	5.0	3.8	5.4	3.8	5.5	3.9	5.8	4.0	6.2	4.0	6.6	4.0
	40.0	4.8	3.7	5.0	3.8	5.3	3.8	5.4	3.8	5.7	4.0	6.2	4.0	6.6	3.9
	43.0	4.8	3.7	4.9	3.8	5.3	3.8	5.4	3.8	5.7	4.0	6.0	4.0	6.5	3.9
63 (7.1)	20.0	6.7	4.9	6.9	5.0	7.4	5.0	7.6	5.0	7.9	5.2	8.4	5.1	8.9	5.1
	22.5	6.7	4.8	6.9	4.9	7.3	4.9	7.5	5.0	7.8	5.2	8.3	5.1	8.8	5.1
	25.0	6.6	4.8	6.8	4.9	7.2	4.9	7.5	4.9	7.7	5.1	8.2	5.1	8.8	5.0
	27.5	6.5	4.8	6.7	4.9	7.2	4.9	7.4	4.9	7.7	5.1	8.2	5.1	8.5	4.9
	30.0	6.5	4.7	6.6	4.8	7.1	4.8	7.3	4.9	7.6	5.1	8.1	5.0	8.6	5.0
	32.5	6.4	4.7	6.5	4.8	7.0	4.8	7.2	4.8	7.5	5.1	8.0	5.0	8.5	4.9
	35.0	6.3	4.7	6.4	4.7	6.9	4.7	7.1	4.8	7.4	5.0	8.0	5.0	8.4	4.9
	37.5	6.2	4.6	6.4	4.7	6.8	4.7	7.0	4.7	7.3	5.0	7.8	4.9	8.4	4.9
	40.0	6.1	4.6	6.3	4.7	6.8	4.7	6.9	4.7	7.2	4.9	7.8	4.9	8.3	4.9
	43.0	6.1	4.5	6.2	4.6	6.7	4.6	6.8	4.7	7.2	4.9	7.7	4.9	8.2	4.8

2.3b. Heating capacity in combination with PUHY,PURY-P450,500,550,600,650YGM

PFFY-P-VLEM-E,VLRM-E SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
20 (2.2)	-20.0	1.3	1.3	1.3	1.3
	-15.0	1.6	1.5	1.5	1.5
	-10.0	1.8	1.8	1.7	1.7
	-5.0	2.1	2.0	1.9	1.8
	0.0	2.3	2.3	2.0	1.8
	2.5	2.4	2.4	2.0	1.8
	6.0	2.6	2.5	2.0	1.8
	7.5	2.7	2.5	2.0	1.8
	10.0	2.8	2.5	2.0	1.8
	12.5	2.9	2.5	2.0	1.8
	15.5	2.9	2.5	2.0	1.8
25 (2.8)	-20.0	1.7	1.6	1.6	1.6
	-15.0	2.0	1.9	1.9	1.9
	-10.0	2.3	2.2	2.2	2.1
	-5.0	2.6	2.6	2.5	2.3
	0.0	2.9	2.9	2.5	2.3
	2.5	3.1	3.0	2.5	2.3
	6.0	3.3	3.2	2.5	2.3
	7.5	3.4	3.2	2.5	2.3
	10.0	3.6	3.2	2.5	2.3
	12.5	3.7	3.2	2.5	2.3
	15.5	3.7	3.2	2.5	2.3
32 (3.6)	-20.0	2.1	2.0	2.0	2.0
	-15.0	2.5	2.4	2.4	2.3
	-10.0	2.9	2.8	2.7	2.6
	-5.0	3.3	3.2	3.1	2.8
	0.0	3.7	3.6	3.2	2.8
	2.5	3.8	3.8	3.2	2.8
	6.0	4.1	4.0	3.2	2.8
	7.5	4.2	4.0	3.2	2.8
	10.0	4.4	4.0	3.2	2.8
	12.5	4.6	4.0	3.2	2.8
	15.5	4.6	4.0	3.2	2.8
40 (4.5)	-20.0	2.7	2.6	2.6	2.5
	-15.0	3.1	3.0	3.0	2.9
	-10.0	3.6	3.5	3.4	3.3
	-5.0	4.1	4.0	3.9	3.5
	0.0	4.6	4.5	4.0	3.5
	2.5	4.8	4.8	4.0	3.5
	6.0	5.2	5.0	4.0	3.5
	7.5	5.3	5.0	4.0	3.5
	10.0	5.6	5.0	4.0	3.5
	12.5	5.8	5.0	4.0	3.5
	15.5	5.8	5.0	4.0	3.5
50 (5.6)	-20.0	3.3	3.2	3.2	3.2
	-15.0	3.9	3.8	3.8	3.7
	-10.0	4.5	4.4	4.3	4.2
	-5.0	5.2	5.0	4.9	4.4
	0.0	5.8	5.7	5.0	4.4
	2.5	6.0	6.0	5.0	4.4
	6.0	6.5	6.3	5.0	4.4
	7.5	6.7	6.3	5.0	4.4
	10.0	7.0	6.3	5.0	4.4
	12.5	7.3	6.3	5.0	4.4
	15.5	7.3	6.3	5.0	4.4
63 (7.1)	-20.0	4.2	4.1	4.1	4.0
	-15.0	5.0	4.8	4.8	4.6
	-10.0	5.8	5.6	5.4	5.3
	-5.0	6.6	6.4	6.2	5.6
	0.0	7.4	7.2	6.4	5.6
	2.5	7.7	7.6	6.4	5.6
	6.0	8.2	8.0	6.4	5.6
	7.5	8.5	8.0	6.4	5.6
	10.0	8.9	8.0	6.4	5.6
	12.5	9.3	8.0	6.4	5.6
	15.5	9.3	8.0	6.4	5.6

2.4a. Cooling capacity in combination with PUHY-P700,750,800YSGM

PFFY-P-VLEM-E,VLRM-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.9	2.2	2.0	2.4	2.0	2.4	2.0	2.5	2.1	2.7	2.1	2.9	2.1
	22.5	2.1	1.9	2.2	2.0	2.3	1.9	2.4	2.0	2.5	2.1	2.7	2.1	2.8	2.0
	25.0	2.1	1.9	2.1	1.9	2.3	1.9	2.4	2.0	2.4	2.1	2.6	2.0	2.8	2.0
	27.5	2.0	1.8	2.1	1.9	2.2	1.9	2.3	2.0	2.4	2.1	2.6	2.0	2.7	2.0
	30.0	2.0	1.8	2.1	1.9	2.2	1.9	2.3	1.9	2.4	2.0	2.5	2.0	2.7	2.0
	32.5	1.9	1.8	2.0	1.9	2.2	1.9	2.2	1.9	2.3	2.0	2.5	2.0	2.6	2.0
	35.0	1.9	1.8	2.0	1.9	2.1	1.9	2.2	1.9	2.3	2.0	2.4	2.0	2.6	2.0
	37.5	1.9	1.8	2.0	1.9	2.1	1.8	2.2	1.9	2.2	2.0	2.4	2.0	2.5	1.9
	40.0	1.8	1.8	1.9	1.8	2.0	1.8	2.1	1.9	2.2	2.0	2.3	2.0	2.5	1.9
	43.0	1.8	1.8	1.8	1.8	2.0	1.8	2.1	1.9	2.1	2.0	2.3	1.9	2.4	1.9
25 (2.8)	20.0	2.7	2.2	2.8	2.2	3.0	2.2	3.1	2.3	3.2	2.4	3.4	2.4	3.7	2.3
	22.5	2.7	2.1	2.8	2.2	3.0	2.2	3.1	2.3	3.2	2.4	3.4	2.3	3.6	2.3
	25.0	2.6	2.1	2.7	2.2	2.9	2.2	3.0	2.2	3.1	2.3	3.3	2.3	3.5	2.3
	27.5	2.6	2.1	2.7	2.2	2.9	2.2	3.0	2.2	3.1	2.3	3.3	2.3	3.5	2.3
	30.0	2.5	2.1	2.6	2.2	2.8	2.1	2.9	2.2	3.0	2.3	3.2	2.3	3.4	2.2
	32.5	2.5	2.1	2.6	2.1	2.7	2.1	2.8	2.2	2.9	2.3	3.1	2.2	3.3	2.2
	35.0	2.4	2.0	2.5	2.1	2.7	2.1	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.2
	37.5	2.4	2.0	2.5	2.1	2.6	2.1	2.7	2.1	2.8	2.2	3.0	2.2	3.2	2.2
	40.0	2.4	2.0	2.4	2.1	2.6	2.1	2.7	2.1	2.8	2.2	3.0	2.2	3.2	2.1
	43.0	2.3	2.0	2.4	2.0	2.5	2.0	2.6	2.1	2.7	2.2	2.9	2.2	3.1	2.1
32 (3.6)	20.0	3.5	2.5	3.6	2.6	3.9	2.6	4.0	2.6	4.1	2.7	4.4	2.7	4.7	2.7
	22.5	3.4	2.5	3.5	2.6	3.8	2.5	3.9	2.6	4.1	2.7	4.4	2.7	4.6	2.6
	25.0	3.4	2.5	3.5	2.5	3.7	2.5	3.9	2.6	4.0	2.7	4.2	2.6	4.5	2.6
	27.5	3.3	2.4	3.4	2.5	3.7	2.5	3.8	2.5	3.9	2.6	4.2	2.6	4.5	2.6
	30.0	3.2	2.4	3.4	2.5	3.6	2.5	3.7	2.5	3.9	2.6	4.1	2.6	4.4	2.5
	32.5	3.2	2.4	3.3	2.4	3.5	2.4	3.7	2.5	3.8	2.6	4.0	2.5	4.3	2.5
	35.0	3.1	2.3	3.2	2.4	3.5	2.4	3.6	2.4	3.7	2.5	4.0	2.5	4.2	2.5
	37.5	3.1	2.3	3.2	2.4	3.4	2.4	3.5	2.4	3.7	2.5	3.9	2.5	4.1	2.5
	40.0	3.0	2.3	3.1	2.3	3.3	2.3	3.5	2.4	3.6	2.5	3.8	2.5	4.1	2.4
	43.0	3.0	2.2	3.0	2.3	3.2	2.3	3.4	2.3	3.5	2.4	3.7	2.4	4.0	2.4
40 (4.5)	20.0	4.3	3.1	4.5	3.2	4.8	3.2	5.0	3.3	5.2	3.4	5.5	3.4	5.9	3.3
	22.5	4.3	3.1	4.4	3.2	4.7	3.2	4.9	3.2	5.1	3.4	5.4	3.4	5.8	3.3
	25.0	4.2	3.1	4.4	3.2	4.7	3.2	4.8	3.2	5.0	3.3	5.3	3.3	5.7	3.3
	27.5	4.1	3.0	4.3	3.1	4.6	3.1	4.7	3.2	4.9	3.3	5.2	3.3	5.6	3.2
	30.0	4.1	3.0	4.2	3.1	4.5	3.1	4.7	3.1	4.8	3.3	5.1	3.2	5.5	3.2
	32.5	4.0	3.0	4.1	3.1	4.4	3.0	4.6	3.1	4.7	3.2	5.0	3.2	5.4	3.2
	35.0	3.9	2.9	4.1	3.0	4.3	3.0	4.5	3.1	4.6	3.2	5.0	3.2	5.3	3.1
	37.5	3.8	2.9	4.0	3.0	4.3	3.0	4.4	3.0	4.6	3.2	4.9	3.1	5.2	3.1
	40.0	3.8	2.9	3.9	2.9	4.2	2.9	4.3	3.0	4.5	3.1	4.8	3.1	5.1	3.0
	43.0	3.7	2.8	3.8	2.9	4.1	2.9	4.2	2.9	4.4	3.1	4.7	3.0	5.0	3.0
50 (5.6)	20.0	5.4	4.0	5.6	4.1	6.0	4.1	6.2	4.2	6.4	4.3	6.9	4.3	7.3	4.2
	22.5	5.3	3.9	5.5	4.1	5.9	4.0	6.1	4.1	6.3	4.3	6.8	4.2	7.2	4.2
	25.0	5.3	3.9	5.4	4.0	5.8	4.0	6.0	4.1	6.2	4.2	6.6	4.2	7.1	4.1
	27.5	5.2	3.8	5.3	4.0	5.7	4.0	5.9	4.0	6.1	4.2	6.5	4.1	6.9	4.1
	30.0	5.0	3.8	5.2	3.9	5.6	3.9	5.8	4.0	6.0	4.1	6.4	4.1	6.8	4.0
	32.5	5.0	3.8	5.1	3.9	5.5	3.9	5.7	3.9	5.9	4.1	6.3	4.0	6.7	4.0
	35.0	4.9	3.7	5.0	3.8	5.4	3.8	5.6	3.9	5.8	4.0	6.2	4.0	6.6	3.9
	37.5	4.8	3.7	5.0	3.8	5.3	3.8	5.5	3.8	5.7	4.0	6.0	4.0	6.4	3.9
	40.0	4.7	3.6	4.8	3.7	5.2	3.7	5.4	3.8	5.6	4.0	5.9	3.9	6.3	3.9
	43.0	4.6	3.6	4.7	3.7	5.0	3.7	5.2	3.7	5.4	3.9	5.8	3.9	6.2	3.8
63 (7.1)	20.0	6.9	4.9	7.1	5.1	7.6	5.1	7.9	5.1	8.2	5.3	8.7	5.3	9.3	5.2
	22.5	6.7	4.9	7.0	5.0	7.5	5.0	7.8	5.1	8.0	5.3	8.6	5.2	9.1	5.1
	25.0	6.7	4.8	6.9	5.0	7.4	5.0	7.6	5.0	7.9	5.2	8.4	5.1	8.9	5.1
	27.5	6.5	4.8	6.7	4.9	7.2	4.9	7.5	5.0	7.7	5.1	8.3	5.1	8.8	5.0
	30.0	6.4	4.7	6.6	4.8	7.1	4.8	7.3	4.9	7.6	5.1	8.1	5.0	8.7	5.0
	32.5	6.3	4.6	6.5	4.8	7.0	4.8	7.2	4.8	7.5	5.0	8.0	5.0	8.5	4.9
	35.0	6.2	4.6	6.4	4.7	6.8	4.7	7.1	4.8	7.3	5.0	7.8	4.9	8.3	4.9
	37.5	6.1	4.5	6.3	4.7	6.7	4.6	7.0	4.7	7.2	4.9	7.7	4.9	8.2	4.8
	40.0	6.0	4.5	6.1	4.6	6.6	4.6	6.8	4.7	7.1	4.9	7.5	4.8	8.0	4.7
	43.0	5.8	4.4	6.0	4.5	6.4	4.5	6.6	4.6	6.9	4.8	7.3	4.7	7.8	4.7

2.4b. Heating capacity in combination with PUHY-P700,750,800YSGM

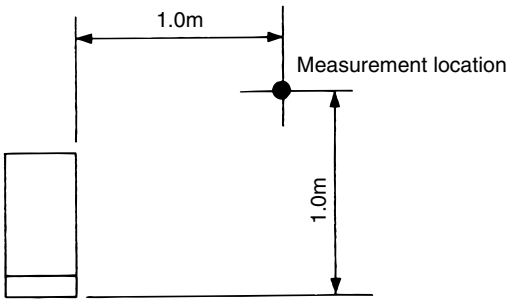
PFFY-P-VLEM-E,VLRM-E SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
20 (2.2)	-20.0	1.3	1.3	1.3	1.2
	-15.0	1.5	1.5	1.5	1.5
	-10.0	1.8	1.8	1.7	1.7
	-5.0	2.0	2.0	1.9	1.8
	0.0	2.3	2.2	2.0	1.8
	2.5	2.4	2.4	2.0	1.8
	6.0	2.6	2.5	2.0	1.8
	7.5	2.7	2.5	2.0	1.8
	10.0	2.8	2.5	2.0	1.8
	12.5	2.9	2.5	2.0	1.8
	15.5	2.9	2.5	2.0	1.8
25 (2.8)	-20.0	1.6	1.6	1.6	1.6
	-15.0	2.0	1.9	1.9	1.9
	-10.0	2.3	2.2	2.2	2.1
	-5.0	2.6	2.6	2.5	2.4
	0.0	2.9	2.9	2.5	2.4
	2.5	3.1	3.0	2.5	2.4
	6.0	3.3	3.2	2.5	2.4
	7.5	3.4	3.2	2.5	2.4
	10.0	3.6	3.2	2.5	2.4
	12.5	3.7	3.2	2.5	2.4
	15.5	3.7	3.2	2.5	2.4
32 (3.6)	-20.0	2.0	2.0	2.0	2.0
	-15.0	2.4	2.4	2.4	2.3
	-10.0	2.8	2.8	2.7	2.7
	-5.0	3.2	3.2	3.1	2.9
	0.0	3.6	3.6	3.2	2.9
	2.5	3.8	3.8	3.2	2.9
	6.0	4.1	4.0	3.2	2.9
	7.5	4.2	4.0	3.2	2.9
	10.0	4.4	4.0	3.2	2.9
	12.5	4.6	4.0	3.2	2.9
	15.5	4.6	4.0	3.2	2.9
40 (4.5)	-20.0	2.5	2.5	2.5	2.5
	-15.0	3.1	3.0	3.0	2.9
	-10.0	3.6	3.5	3.4	3.4
	-5.0	4.1	4.0	3.9	3.7
	0.0	4.6	4.5	4.0	3.7
	2.5	4.8	4.7	4.0	3.7
	6.0	5.2	5.0	4.0	3.7
	7.5	5.3	5.0	4.0	3.7
	10.0	5.6	5.0	4.0	3.7
	12.5	5.8	5.0	4.0	3.7
	15.5	5.8	5.0	4.0	3.7
50 (5.6)	-20.0	3.2	3.2	3.2	3.1
	-15.0	3.8	3.8	3.7	3.7
	-10.0	4.5	4.4	4.3	4.2
	-5.0	5.1	5.0	4.9	4.6
	0.0	5.7	5.6	5.0	4.6
	2.5	6.0	5.9	5.0	4.6
	6.0	6.5	6.3	5.0	4.6
	7.5	6.7	6.3	5.0	4.6
	10.0	7.0	6.3	5.0	4.6
	12.5	7.3	6.3	5.0	4.6
	15.5	7.3	6.3	5.0	4.6
63 (7.1)	-20.0	4.0	4.0	4.0	3.9
	-15.0	4.9	4.8	4.8	4.6
	-10.0	5.7	5.6	5.4	5.4
	-5.0	6.5	6.4	6.2	5.9
	0.0	7.3	7.2	6.4	5.9
	2.5	7.7	7.5	6.4	5.9
	6.0	8.2	8.0	6.4	5.9
	7.5	8.5	8.0	6.4	5.9
	10.0	8.9	8.0	6.4	5.9
	12.5	9.3	8.0	6.4	5.9
	15.5	9.3	8.0	6.4	5.9

3. Sound Levels

3.1 Noise levels

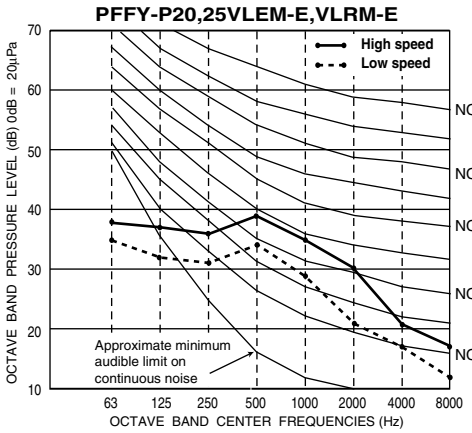
Floor standing

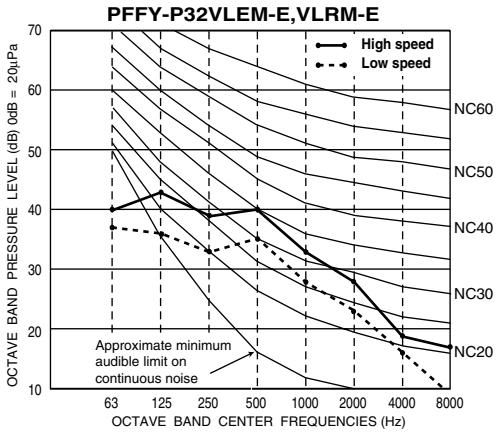


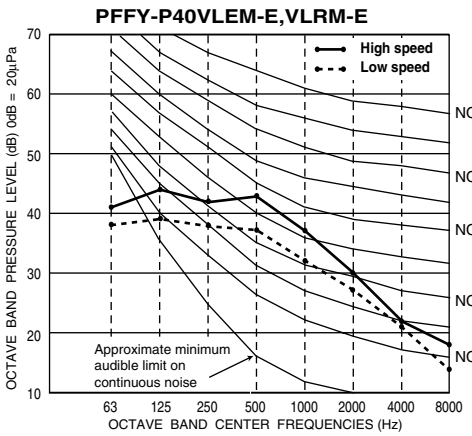
Noise level at anechoic room (Low-High) Unit : dB(A)

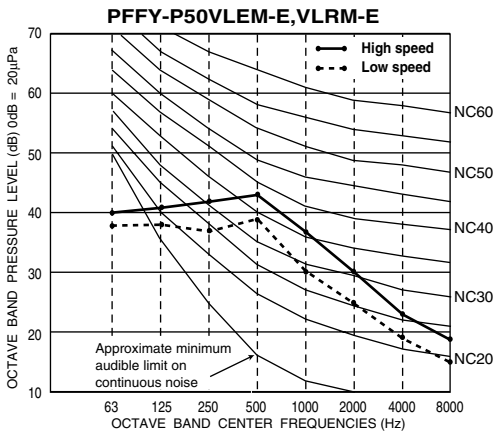
Model	Noise level (A weighted)
PFFY-P20VLEM-E PFFY-P20VLRM-E PFFY-P25VLEM-E PFFY-P25VLRM-E	34-40
PFFY-P32VLEM-E PFFY-P32VLRM-E	35-40
PFFY-P40VLEM-E PFFY-P40VLRM-E PFFY-P50VLEM-E PFFY-P50VLRM-E	38-43
PFFY-P63VLEM-E PFFY-P63VLRM-E	40-46

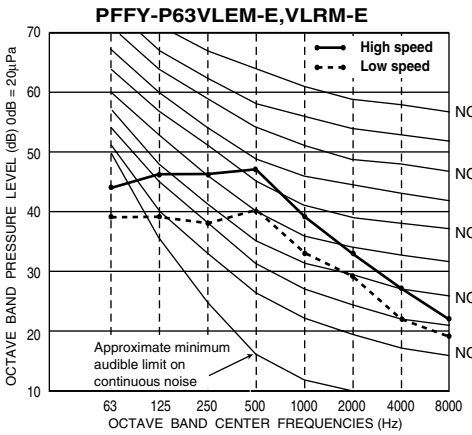
3.2 NC curves







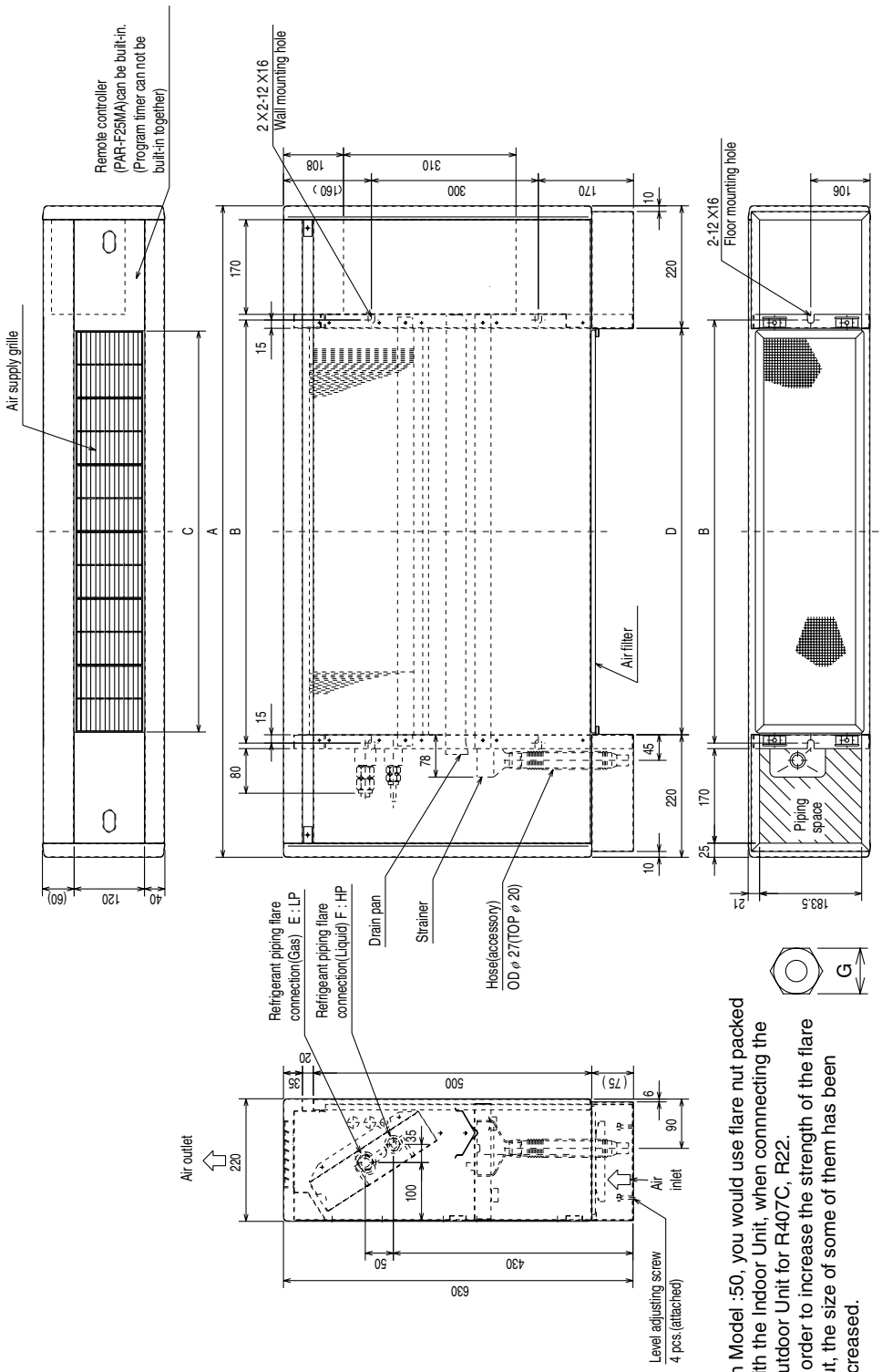




4. External Dimensions

PFFY-P20,25,32,40,50, 63VLEM-E

Unit : mm

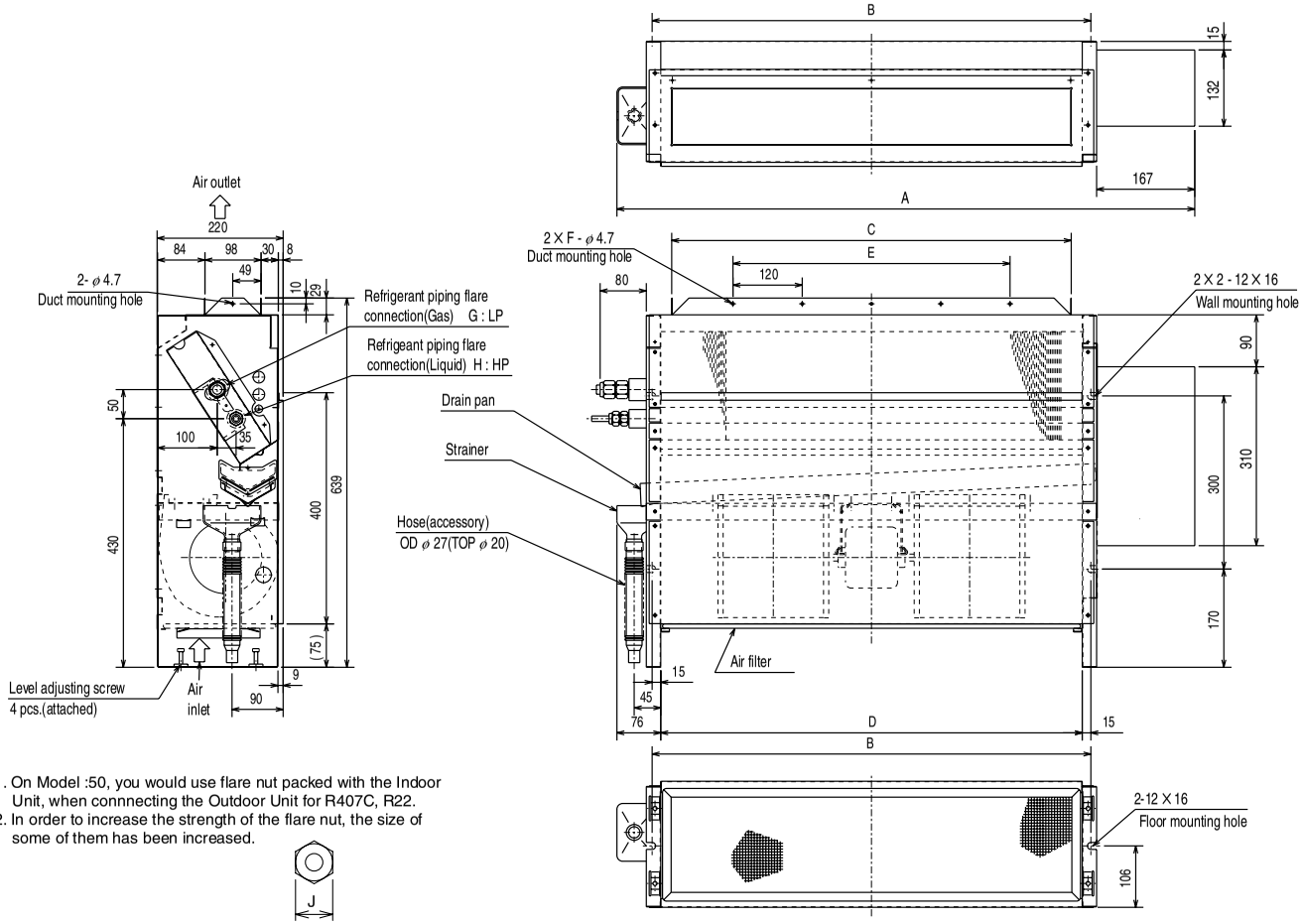


Note: 1. On Model :50, you would use flare nut packed with the Indoor Unit, when connnecting the Outdoor Unit for R407C, R22.
2. In order to increase the strength of the flare nut, the size of some of them has been increased.

Dimensions

Model	A	B	C	D	E(Gas)		F(Liquid)		G(Liquid)		G(Gas)	
PFFY-P20VLEM-E	1050	640	600	610	ø12.7		ø6.35		17		27	
PFFY-P25VLEM-E	1050	640	600	610	ø12.7		ø6.35		17		27	
PFFY-P32VLEM-E	1170	760	720	730	ø12.7		ø6.35		17		27	
PFFY-P40VLEM-E	1170	760	720	730	ø12.7		ø6.35		17		27	
PFFY-P50VLEM-E	1410	1000	960	970	ø12.7	※1	ø6.35	※1	22	※1	29	※1:R410A outdoor unit
					ø15.88	※2	ø9.52	※2	22	※2	29	※2:R407C,R22 outdoor unit
PFFY-P63VLEM-E	1410	1000	960	970	ø15.88		ø9.52		22		29	

Unit : mm



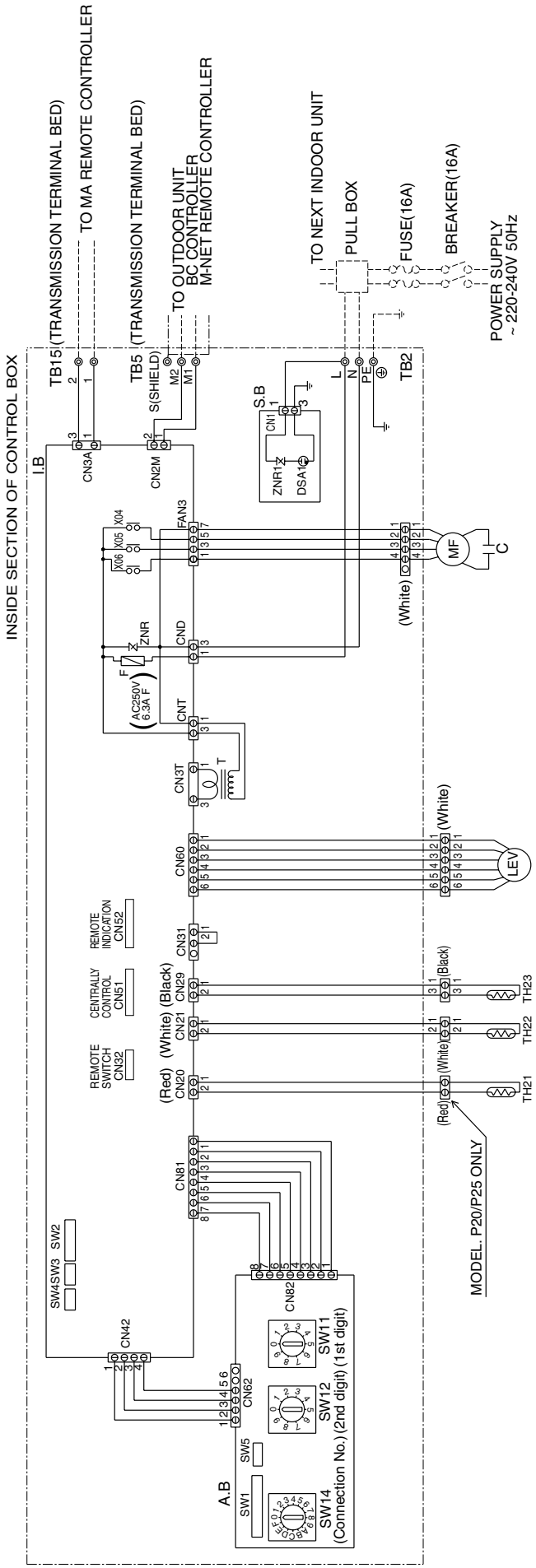
Note: 1. On Model :50, you would use flare nut packed with the Indoor Unit, when connnecting the Outdoor Unit for R407C, R22.
2. In order to increase the strength of the flare nut, the size of some of them has been increased.

Dimensions

Model	A	B	C	D	E	F	G(Gas)	H(Liquid)	J(Liquid)	J(Gas)
PFFY-P20VLRM-E	886	640	572	610	360	4	ø12.7	ø6.35	17	27
PFFY-P25VLRM-E	886	640	572	610	360	4	ø12.7	ø6.35	17	27
PFFY-P32VLRM-E	1006	760	692	730	480	5	ø12.7	ø6.35	17	27
PFFY-P40VLRM-E	1006	760	692	730	480	5	ø12.7	ø6.35	17	27
PFFY-P50VLRM-E	1246	1000	932	970	720	7	※1 ø12.7	※1 ø6.35	※1 22	※1 29
							※2 ø15.88	※2 ø9.52	※2 22	※2 29
PFFY-P63VLRM-E	1246	1000	932	970	720	7	ø15.88	ø9.52	22	29

※1:R410A outdoor unit
※2:R407C,R22 outdoor unit

5. Electrical Wiring Diagram



SYMBOL EXPLANATION

SYMBOL	NAME	SYMBOL	NAME
MF	Fan motor	TH22	Thermistor (piping temp.detection/liquid)
C	✻Capacitor (for MF)	TH23	Thermistor (piping temp.detection/gas)
I.B	Indoor controller board	SW11(A.B)	Switch (1st digit address set)
A.B	Address board	SW12(A.B)	Switch (2nd digit address set)
TB2	Power source terminal bed	SW14(A.B)	Switch (connection No.set)
TB5	Transmission terminal bed	SW1(A.B)	Switch(for mode selection)
TB15	Transmission terminal bed	SW2(I.B)	Switch(for capacity code)
F	Fuse AC250V 6.3A F	SW3(I.B)	Switch(for mode selection)
T	Transformer	SW4(I.B)	Switch(for model selection)
LEV	Electronic linear expan. valve	SW5(A.B)	Switch(for voltage selection)
S.B	Surge absorber board	X04~06	Aux.relay
TH21	Thermistor (inlet temp.detection)		

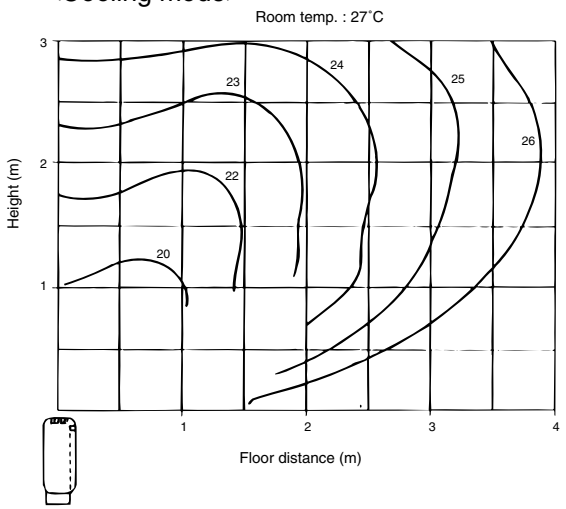
✻Capacitor
MODELS 20/25/32/40 1.5μF
MODEL 50 2.0μF
MODEL 63 2.5μF

PFFY-P-VLEM-E/VLRM-E

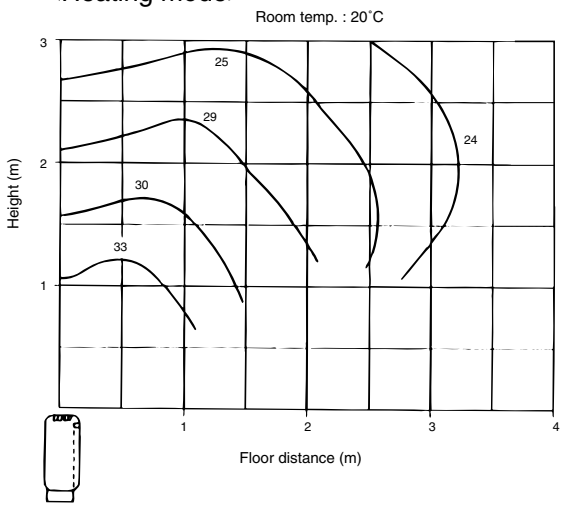
6. Temperature/Airflow distribution

6.1 Temperature distribution

<Cooling mode>

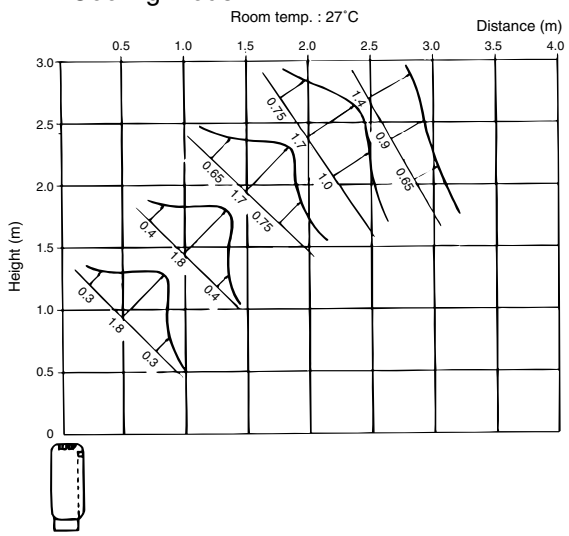


<Heating mode>



6.2 Airlow distribution

<Cooling mode>



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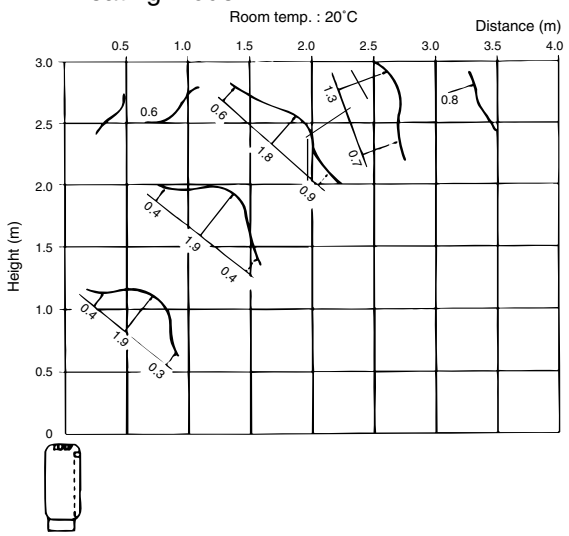

PFFY-P-VLEM-E/VLRM-E

Cassette ceiling (1-way flow) PMFY-P-VBM-E

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Model Name	20	25	32	40	50	63	71	80	100	125	140	200	250
PMFY-P-VBM-E	●	●	●	●									

1. Specifications

			PMFY-P20VBM-E	PMFY-P25VBM-E	PMFY-P32VBM-E	PMFY-P40VBM-E
Power source			~220-240V 50Hz / ~ 200V 60Hz			
Cooling capacity	※1	kW	2.2	2.8	3.6	4.5
	※1	BTU/h	7,500	9,550	12,280	15,350
	※2	kW	2.3	2.9	3.7	4.7
	※2	kcal/h	2,000	2,500	3,150	4,000
Heating capacity	※1	kW	2.5	3.2	4.0	5.0
	※1	BTU/h	8,530	10,750	13,640	17,060
	※2	kW	2.6	3.3	4.1	5.2
	※2	kcal/h	2,250	2,800	3,550	4,500
Power consumption	Cooling	kW	0.042	0.044		0.054
	Heating	kW	0.042	0.044		0.054
Current	Cooling	A	0.20	0.21		0.26
	Heating	A	0.20	0.21		0.26
External finish			Panel : 0.98Y8.99/0.63			
Dimension H x W x D ※3		mm	230(30) x 812(1,000) x 395(470)			
Net weight ※3		kg	14 (3.0)			
Heat exchanger			Cross fin (Aluminum plate fin and copper tube)			
Fan	Type		Line flow fan × 1			
	Airflow rate ※3 (Low-Mid2-Mid1-High)	m³/min	6.5-7.2-8.0-8.7	7.3-8.0-8.6-9.3		7.7-8.7-9.7-10.7
	External static pressure	Pa	0			
Motor	Type		Single phase induction motor			
	Output	kW	0.028			
Air filter			PP Honeycomb fabric			
Refrigerant pipe dimension	Gas (Flare)	mm	ø 12.7			
	Liquid (Flare)	mm	ø 6.35			
Drain pipe dimension			O.D. ø25 (VP-20)			
Noise level (Low-Mid2-Mid1-High) ※4		dB(A)	27-30-33-35	32-34-36-37		33-35-37-39

Note: ※1 Cooling/Heating capacity indicates the maximum value at operation under the following condition.
Cooling : Indoor 27˚CDB/19˚CWB,Outdoor 35˚CDB
Heating : Indoor 20˚CDB,Outdoor 7˚CDB/6˚CWB

※2 Cooling capacity indicates the maximum value at operation under the following condition.
Cooling : Indoor 27˚CDB/19.5˚CWB,Outdoor 35˚CDB (WR2: water 30˚C)
Heating : Indoor 21˚CDB,Outdoor 7˚CDB/6˚CWB (WR2: water 20˚C)

※3 External dimension / net weight are shown in (panel), and airflow rate/noise level are in (low-middle2-middle1-high).

※4 It is measured in anechoic room.

2. Capacity Tables

2.1a. Cooling capacity in combination with PUHY,PUY,PURY-P200,250YGM

PMFY-P-VBM-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.0	1.6	2.1	1.7	2.3	1.7	2.4	1.8	2.4	1.8	2.6	1.8	2.8	1.8
	22.5	2.0	1.6	2.1	1.7	2.3	1.7	2.4	1.8	2.4	1.8	2.6	1.8	2.8	1.8
	25.0	2.0	1.6	2.1	1.7	2.3	1.7	2.4	1.8	2.4	1.8	2.6	1.8	2.7	1.8
	27.5	2.0	1.6	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.8	2.5	1.8	2.7	1.8
	30.0	1.9	1.6	2.0	1.7	2.2	1.7	2.3	1.7	2.3	1.8	2.5	1.8	2.6	1.7
	32.5	1.9	1.6	2.0	1.7	2.1	1.7	2.2	1.7	2.3	1.8	2.4	1.7	2.6	1.7
	35.0	1.9	1.6	2.0	1.7	2.1	1.6	2.2	1.7	2.2	1.8	2.4	1.7	2.5	1.7
	37.5	1.8	1.6	1.9	1.6	2.0	1.6	2.1	1.7	2.2	1.7	2.3	1.7	2.5	1.7
	40.0	1.8	1.6	1.9	1.6	2.0	1.6	2.1	1.7	2.1	1.7	2.3	1.7	2.4	1.7
	43.0	1.8	1.5	1.8	1.6	2.0	1.6	2.0	1.6	2.0	1.7	2.2	1.7	2.4	1.7
25 (2.8)	20.0	2.5	2.0	2.7	2.1	2.9	2.1	3.0	2.1	3.1	2.2	3.3	2.2	3.5	2.2
	22.5	2.5	2.0	2.7	2.1	2.9	2.1	3.0	2.1	3.1	2.2	3.3	2.2	3.5	2.2
	25.0	2.5	2.0	2.7	2.1	2.9	2.1	3.0	2.1	3.1	2.2	3.3	2.2	3.5	2.1
	27.5	2.5	2.0	2.6	2.1	2.8	2.1	3.0	2.1	3.0	2.2	3.2	2.1	3.4	2.1
	30.0	2.5	2.0	2.6	2.0	2.8	2.0	2.9	2.1	3.0	2.2	3.1	2.1	3.3	2.1
	32.5	2.4	1.9	2.5	2.0	2.7	2.0	2.8	2.1	2.9	2.1	3.1	2.1	3.3	2.1
	35.0	2.4	1.9	2.5	2.0	2.7	2.0	2.8	2.0	2.8	2.1	3.0	2.1	3.2	2.1
	37.5	2.4	1.9	2.5	2.0	2.6	2.0	2.7	2.0	2.8	2.1	3.0	2.1	3.1	2.0
	40.0	2.3	1.9	2.4	2.0	2.6	1.9	2.7	2.0	2.7	2.1	2.9	2.0	3.1	2.0
	43.0	2.3	1.9	2.4	1.9	2.5	1.9	2.6	2.0	2.6	2.0	2.8	2.0	3.0	2.0
32 (3.6)	20.0	3.2	2.3	3.4	2.5	3.7	2.5	3.9	2.5	4.0	2.6	4.2	2.6	4.6	2.6
	22.5	3.2	2.3	3.4	2.5	3.7	2.5	3.9	2.5	4.0	2.6	4.2	2.6	4.6	2.6
	25.0	3.2	2.3	3.4	2.5	3.7	2.5	3.9	2.5	4.0	2.6	4.2	2.6	4.5	2.5
	27.5	3.2	2.3	3.4	2.4	3.6	2.4	3.8	2.5	3.9	2.5	4.1	2.5	4.4	2.5
	30.0	3.2	2.3	3.3	2.4	3.6	2.4	3.7	2.5	3.8	2.5	4.0	2.5	4.3	2.5
	32.5	3.1	2.3	3.3	2.4	3.5	2.4	3.7	2.4	3.7	2.5	4.0	2.5	4.2	2.4
	35.0	3.1	2.3	3.2	2.4	3.4	2.3	3.6	2.4	3.7	2.5	3.9	2.4	4.1	2.4
	37.5	3.0	2.2	3.2	2.3	3.3	2.3	3.5	2.4	3.6	2.4	3.8	2.4	4.0	2.4
	40.0	3.0	2.2	3.1	2.3	3.3	2.3	3.5	2.3	3.5	2.4	3.7	2.4	4.0	2.3
	43.0	2.9	2.2	3.0	2.3	3.2	2.2	3.3	2.3	3.3	2.3	3.6	2.3	3.9	2.3
40 (4.5)	20.0	4.0	2.8	4.3	3.0	4.6	3.0	4.9	3.1	5.0	3.2	5.3	3.1	5.7	3.1
	22.5	4.0	2.8	4.3	3.0	4.6	3.0	4.9	3.1	5.0	3.2	5.3	3.1	5.7	3.1
	25.0	4.0	2.8	4.3	3.0	4.6	3.0	4.9	3.1	5.0	3.1	5.3	3.1	5.6	3.1
	27.5	4.0	2.8	4.3	3.0	4.5	3.0	4.8	3.0	4.8	3.1	5.2	3.1	5.5	3.0
	30.0	4.0	2.8	4.2	2.9	4.5	2.9	4.7	3.0	4.8	3.1	5.0	3.0	5.4	3.0
	32.5	3.9	2.8	4.1	2.9	4.4	2.9	4.6	2.9	4.7	3.0	5.0	3.0	5.3	2.9
	35.0	3.8	2.7	4.0	2.9	4.3	2.8	4.5	2.9	4.6	3.0	4.9	2.9	5.2	2.9
	37.5	3.8	2.7	4.0	2.8	4.2	2.8	4.4	2.8	4.5	2.9	4.8	2.9	5.0	2.8
	40.0	3.7	2.7	3.9	2.8	4.1	2.8	4.3	2.8	4.4	2.9	4.7	2.9	5.0	2.8
	43.0	3.6	2.6	3.8	2.7	4.0	2.7	4.2	2.8	4.2	2.8	4.5	2.8	4.8	2.8

2.1b. Heating capacity in combination with PUHY,PUY,PURY-P200,250YGM

PMFY-P-VBM-E

SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
20 (2.2)	-20.0	1.3	1.3	1.3	1.3
	-15.0	1.6	1.5	1.5	1.5
	-10.0	1.8	1.8	1.8	1.7
	-5.0	2.1	2.1	2.0	1.8
	0.0	2.4	2.4	2.0	1.8
	2.5	2.5	2.5	2.0	1.8
	6.0	2.6	2.5	2.0	1.8
	7.5	2.7	2.5	2.0	1.8
	10.0	2.9	2.5	2.0	1.8
	12.5	3.0	2.5	2.0	1.8
	15.5	3.2	2.5	2.0	1.8
25 (2.8)	-20.0	1.6	1.6	1.6	1.6
	-15.0	2.0	2.0	1.9	1.9
	-10.0	2.3	2.3	2.2	2.2
	-5.0	2.7	2.7	2.6	2.2
	0.0	3.0	3.0	2.6	2.2
	2.5	3.2	3.2	2.6	2.2
	6.0	3.3	3.2	2.6	2.2
	7.5	3.4	3.2	2.6	2.2
	10.0	3.6	3.2	2.6	2.2
	12.5	3.9	3.2	2.6	2.2
	15.5	4.1	3.2	2.6	2.2
32 (3.6)	-20.0	2.1	2.0	2.0	2.0
	-15.0	2.5	2.4	2.4	2.4
	-10.0	2.9	2.9	2.8	2.7
	-5.0	3.4	3.3	3.2	2.8
	0.0	3.8	3.8	3.2	2.8
	2.5	4.0	4.0	3.2	2.8
	6.0	4.2	4.0	3.2	2.8
	7.5	4.3	4.0	3.2	2.8
	10.0	4.6	4.0	3.2	2.8
	12.5	4.8	4.0	3.2	2.8
	15.5	5.1	4.0	3.2	2.8
40 (4.5)	-20.0	2.6	2.5	2.5	2.5
	-15.0	3.1	3.1	3.0	3.0
	-10.0	3.7	3.6	3.5	3.4
	-5.0	4.2	4.2	4.0	3.5
	0.0	4.7	4.7	4.0	3.5
	2.5	5.0	5.0	4.0	3.5
	6.0	5.2	5.0	4.0	3.5
	7.5	5.4	5.0	4.0	3.5
	10.0	5.7	5.0	4.0	3.5
	12.5	6.0	5.0	4.0	3.5
	15.5	6.4	5.0	4.0	3.5

2.2a. Cooling capacity in combination with PUHY,PUY,PURY-P300,350,400YGM

PMFY-P-VBM-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.7	2.2	1.8	2.4	1.8	2.5	1.8	2.5	1.9	2.7	1.8	2.9	1.8
	22.5	2.1	1.7	2.2	1.8	2.3	1.7	2.4	1.8	2.5	1.9	2.6	1.8	2.8	1.8
	25.0	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.8	2.4	1.8	2.6	1.8	2.8	1.8
	27.5	2.1	1.7	2.1	1.7	2.3	1.7	2.3	1.7	2.4	1.8	2.5	1.8	2.7	1.8
	30.0	2.0	1.7	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.8	2.5	1.8	2.6	1.7
	32.5	2.0	1.6	2.0	1.7	2.2	1.7	2.2	1.7	2.3	1.8	2.4	1.8	2.6	1.7
	35.0	2.0	1.6	2.0	1.7	2.1	1.6	2.2	1.7	2.3	1.8	2.4	1.7	2.5	1.7
	37.5	1.9	1.6	1.9	1.6	2.1	1.6	2.1	1.7	2.2	1.7	2.4	1.7	2.5	1.7
	40.0	1.9	1.6	1.9	1.6	2.0	1.6	2.1	1.7	2.4	1.8	2.3	1.7	2.4	1.7
	43.0	1.8	1.6	1.8	1.6	2.0	1.6	2.0	1.6	2.1	1.7	2.2	1.7	2.4	1.7
25 (2.8)	20.0	2.7	2.1	2.8	2.1	3.0	2.1	3.1	2.2	3.2	2.3	3.4	2.2	3.6	2.2
	22.5	2.7	2.1	2.8	2.1	3.0	2.1	3.1	2.2	3.2	2.2	3.4	2.2	3.6	2.2
	25.0	2.7	2.1	2.7	2.1	2.9	2.1	3.0	2.1	3.1	2.2	3.3	2.2	3.5	2.2
	27.5	2.6	2.0	2.7	2.1	2.9	2.1	3.0	2.1	3.1	2.2	3.2	2.2	3.4	2.1
	30.0	2.6	2.0	2.6	2.1	2.8	2.0	2.9	2.1	3.0	2.2	3.2	2.1	3.4	2.1
	32.5	2.5	2.0	2.6	2.0	2.8	2.0	2.9	2.1	2.9	2.1	3.1	2.1	3.3	2.1
	35.0	2.5	2.0	2.5	2.0	2.7	2.0	2.8	2.0	2.9	2.1	3.1	2.1	3.2	2.1
	37.5	2.5	2.0	2.5	2.0	2.6	2.0	2.7	2.0	2.8	2.1	3.0	2.1	3.2	2.0
	40.0	2.4	1.9	2.4	2.0	2.6	2.0	2.7	2.0	3.0	2.2	2.9	2.0	3.1	2.0
	43.0	2.4	1.9	2.4	1.9	2.5	1.9	2.6	2.0	2.7	2.0	2.8	2.0	3.0	2.0
32 (3.6)	20.0	3.5	2.5	3.6	2.5	3.9	2.5	4.0	2.6	4.2	2.7	4.4	2.6	4.7	2.6
	22.5	3.5	2.5	3.6	2.5	3.8	2.5	4.0	2.6	4.1	2.6	4.3	2.6	4.6	2.6
	25.0	3.4	2.4	3.5	2.5	3.8	2.5	3.9	2.5	4.0	2.6	4.2	2.6	4.5	2.5
	27.5	3.4	2.4	3.5	2.5	3.7	2.5	3.8	2.5	3.9	2.6	4.2	2.5	4.4	2.5
	30.0	3.3	2.4	3.4	2.4	3.6	2.4	3.7	2.5	3.9	2.5	4.1	2.5	4.3	2.5
	32.5	3.3	2.4	3.3	2.4	3.5	2.4	3.7	2.4	3.8	2.5	4.0	2.5	4.2	2.4
	35.0	3.2	2.3	3.3	2.4	3.5	2.3	3.6	2.4	3.7	2.5	3.9	2.4	4.2	2.4
	37.5	3.2	2.3	3.2	2.3	3.4	2.3	3.5	2.4	3.6	2.4	3.9	2.4	4.1	2.4
	40.0	3.1	2.3	3.1	2.3	3.3	2.3	3.4	2.3	3.9	2.6	3.8	2.4	4.0	2.3
	43.0	3.0	2.2	3.0	2.3	3.2	2.2	3.3	2.3	3.4	2.4	3.7	2.3	3.9	2.3
40 (4.5)	20.0	4.4	3.0	4.5	3.1	4.9	3.1	5.0	3.1	5.2	3.3	5.5	3.2	5.9	3.2
	22.5	4.3	3.0	4.5	3.1	4.8	3.1	5.0	3.1	5.1	3.2	5.4	3.2	5.7	3.1
	25.0	4.3	3.0	4.4	3.1	4.7	3.0	4.9	3.1	5.0	3.2	5.3	3.1	5.6	3.1
	27.5	4.2	2.9	4.3	3.0	4.6	3.0	4.8	3.0	4.9	3.1	5.2	3.1	5.5	3.0
	30.0	4.1	2.9	4.2	3.0	4.5	2.9	4.7	3.0	4.8	3.1	5.1	3.1	5.4	3.0
	32.5	4.1	2.9	4.2	2.9	4.4	2.9	4.6	2.9	4.7	3.0	5.0	3.0	5.3	2.9
	35.0	4.0	2.8	4.1	2.9	4.3	2.8	4.5	2.9	4.6	3.0	4.9	3.0	5.2	2.9
	37.5	4.0	2.8	4.0	2.8	4.3	2.8	4.4	2.8	4.5	3.0	4.8	2.9	5.1	2.9
	40.0	3.9	2.8	3.9	2.8	4.2	2.8	4.3	2.8	4.9	3.1	4.7	2.9	5.0	2.8
	43.0	3.8	2.7	3.8	2.7	4.1	2.7	4.2	2.8	4.3	2.9	4.6	2.8	4.8	2.8

2.2b. Heating capacity in combination with PUHY,PUY,PURY-P300,350,400YGM

PMFY-P-VBM-E

SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
20 (2.2)	-20.0	1.3	1.3	1.3	1.2
	-15.0	1.5	1.5	1.5	1.5
	-10.0	1.8	1.8	1.7	1.6
	-5.0	2.0	2.0	1.9	1.6
	0.0	2.3	2.3	1.9	1.6
	2.5	2.4	2.4	1.9	1.6
	6.0	2.6	2.5	1.9	1.6
	7.5	2.7	2.5	1.9	1.6
	10.0	2.8	2.5	1.9	1.6
	12.5	2.9	2.5	1.9	1.6
	15.5	2.9	2.5	1.9	1.6
25 (2.8)	-20.0	1.7	1.6	1.6	1.5
	-15.0	1.9	1.9	1.9	1.9
	-10.0	2.2	2.2	2.2	2.0
	-5.0	2.6	2.6	2.4	2.0
	0.0	2.9	2.9	2.4	2.0
	2.5	3.1	3.0	2.4	2.0
	6.0	3.3	3.2	2.4	2.0
	7.5	3.4	3.2	2.4	2.0
	10.0	3.5	3.2	2.4	2.0
	12.5	3.7	3.2	2.4	2.0
	15.5	3.7	3.2	2.4	2.0
32 (3.6)	-20.0	2.1	2.0	2.0	1.9
	-15.0	2.4	2.4	2.4	2.3
	-10.0	2.8	2.8	2.7	2.6
	-5.0	3.2	3.2	3.0	2.6
	0.0	3.6	3.6	3.0	2.6
	2.5	3.8	3.8	3.0	2.6
	6.0	4.1	4.0	3.0	2.6
	7.5	4.2	4.0	3.0	2.6
	10.0	4.4	4.0	3.0	2.6
	12.5	4.6	4.0	3.0	2.6
	15.5	4.6	4.0	3.0	2.6
40 (4.5)	-20.0	2.6	2.5	2.5	2.4
	-15.0	3.0	3.0	3.0	2.9
	-10.0	3.5	3.5	3.4	3.2
	-5.0	4.0	4.0	3.8	3.2
	0.0	4.5	4.5	3.8	3.2
	2.5	4.8	4.7	3.8	3.2
	6.0	5.1	5.0	3.8	3.2
	7.5	5.3	5.0	3.8	3.2
	10.0	5.5	5.0	3.8	3.2
	12.5	5.8	5.0	3.8	3.2
	15.5	5.8	5.0	3.8	3.2

2.3a. Cooling capacity in combination with PUHY,PURY-P450,500,550,600,650YGM

PMFY-P-VBM-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.7	2.1	1.7	2.3	1.7	2.4	1.8	2.5	1.8	2.6	1.8	2.8	1.8
	22.5	2.1	1.7	2.1	1.7	2.3	1.7	2.3	1.7	2.4	1.8	2.6	1.8	2.7	1.8
	25.0	2.0	1.7	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.8	2.6	1.8	2.7	1.8
	27.5	2.0	1.7	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.8	2.5	1.8	2.6	1.7
	30.0	2.0	1.6	2.0	1.7	2.2	1.7	2.3	1.7	2.4	1.8	2.5	1.8	2.7	1.8
	32.5	2.0	1.6	2.0	1.7	2.2	1.7	2.2	1.7	2.3	1.8	2.5	1.8	2.6	1.7
	35.0	2.0	1.6	2.0	1.7	2.1	1.7	2.2	1.7	2.3	1.8	2.5	1.8	2.6	1.7
	37.5	1.9	1.6	2.0	1.7	2.1	1.6	2.2	1.7	2.3	1.8	2.4	1.8	2.6	1.7
	40.0	1.9	1.6	1.9	1.6	2.1	1.6	2.1	1.7	2.2	1.8	2.4	1.7	2.6	1.7
	43.0	1.9	1.6	1.9	1.6	2.1	1.6	2.1	1.7	2.2	1.7	2.4	1.7	2.6	1.7
25 (2.8)	20.0	2.6	2.0	2.7	2.1	2.9	2.1	3.0	2.1	3.1	2.2	3.3	2.2	3.5	2.2
	22.5	2.6	2.0	2.7	2.1	2.9	2.1	3.0	2.1	3.1	2.2	3.3	2.2	3.5	2.1
	25.0	2.6	2.0	2.7	2.1	2.9	2.1	2.9	2.1	3.1	2.2	3.2	2.2	3.5	2.1
	27.5	2.6	2.0	2.6	2.1	2.8	2.1	2.9	2.1	3.0	2.2	3.2	2.2	3.4	2.1
	30.0	2.5	2.0	2.6	2.0	2.8	2.0	2.9	2.1	3.0	2.2	3.2	2.1	3.4	2.1
	32.5	2.5	2.0	2.6	2.0	2.7	2.0	2.8	2.1	3.0	2.2	3.2	2.1	3.4	2.1
	35.0	2.5	2.0	2.5	2.0	2.7	2.0	2.8	2.0	2.9	2.1	3.1	2.1	3.3	2.1
	37.5	2.5	2.0	2.5	2.0	2.7	2.0	2.8	2.0	2.9	2.1	3.1	2.1	3.3	2.1
	40.0	2.4	1.9	2.5	2.0	2.7	2.0	2.7	2.0	2.9	2.1	3.1	2.1	3.3	2.1
	43.0	2.4	1.9	2.5	2.0	2.6	2.0	2.7	2.0	2.8	2.1	3.0	2.1	3.2	2.1
32 (3.6)	20.0	3.4	2.4	3.5	2.5	3.7	2.5	3.9	2.5	4.0	2.6	4.2	2.6	4.5	2.5
	22.5	3.4	2.4	3.5	2.5	3.7	2.5	3.8	2.5	4.0	2.6	4.2	2.6	4.5	2.5
	25.0	3.3	2.4	3.4	2.5	3.7	2.4	3.8	2.5	3.9	2.6	4.2	2.5	4.4	2.5
	27.5	3.3	2.4	3.4	2.4	3.6	2.4	3.7	2.5	3.9	2.6	4.1	2.5	4.3	2.5
	30.0	3.3	2.4	3.3	2.4	3.6	2.4	3.7	2.4	3.9	2.5	4.1	2.5	4.4	2.5
	32.5	3.2	2.3	3.3	2.4	3.5	2.4	3.6	2.4	3.8	2.5	4.1	2.5	4.3	2.5
	35.0	3.2	2.3	3.3	2.4	3.5	2.4	3.6	2.4	3.7	2.5	4.0	2.5	4.3	2.5
	37.5	3.2	2.3	3.2	2.4	3.5	2.3	3.5	2.4	3.7	2.5	4.0	2.5	4.2	2.4
	40.0	3.1	2.3	3.2	2.3	3.4	2.3	3.5	2.3	3.7	2.5	4.0	2.5	4.2	2.4
	43.0	3.1	2.3	3.2	2.3	3.4	2.3	3.5	2.3	3.6	2.4	3.9	2.4	4.2	2.4
40 (4.5)	20.0	4.3	3.0	4.4	3.0	4.7	3.0	4.8	3.0	5.0	3.2	5.3	3.1	5.7	3.1
	22.5	4.2	3.0	4.3	3.0	4.6	3.0	4.8	3.0	5.0	3.1	5.3	3.1	5.6	3.1
	25.0	4.2	2.9	4.3	3.0	4.6	3.0	4.7	3.0	4.9	3.1	5.2	3.1	5.6	3.0
	27.5	4.1	2.9	4.2	3.0	4.5	3.0	4.7	3.0	4.9	3.1	5.2	3.1	5.4	3.0
	30.0	4.1	2.9	4.2	2.9	4.5	2.9	4.6	3.0	4.8	3.1	5.1	3.1	5.4	3.0
	32.5	4.1	2.9	4.1	2.9	4.4	2.9	4.5	2.9	4.8	3.1	5.1	3.0	5.4	3.0
	35.0	4.0	2.8	4.1	2.9	4.4	2.9	4.5	2.9	4.7	3.0	5.0	3.0	5.4	3.0
	37.5	4.0	2.8	4.0	2.9	4.3	2.8	4.4	2.9	4.7	3.0	5.0	3.0	5.3	3.0
	40.0	3.9	2.8	4.0	2.8	4.3	2.8	4.4	2.8	4.6	3.0	5.0	3.0	5.3	2.9
	43.0	3.9	2.8	3.9	2.8	4.2	2.8	4.3	2.8	4.5	3.0	4.9	2.9	5.2	2.9

2.3b. Heating capacity in combination with PUHY,PURY-P450,500,550,600,650YGM

PMFY-P-VBM-E

SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
20 (2.2)	-20.0	1.3	1.3	1.3	1.3
	-15.0	1.6	1.5	1.5	1.5
	-10.0	1.8	1.8	1.7	1.7
	-5.0	2.1	2.0	1.9	1.8
	0.0	2.3	2.3	2.0	1.8
	2.5	2.4	2.4	2.0	1.8
	6.0	2.6	2.5	2.0	1.8
	7.5	2.7	2.5	2.0	1.8
	10.0	2.8	2.5	2.0	1.8
	12.5	2.9	2.5	2.0	1.8
	15.5	2.9	2.5	2.0	1.8
25 (2.8)	-20.0	1.7	1.6	1.6	1.6
	-15.0	2.0	1.9	1.9	1.9
	-10.0	2.3	2.2	2.2	2.1
	-5.0	2.6	2.6	2.5	2.3
	0.0	2.9	2.9	2.5	2.3
	2.5	3.1	3.0	2.5	2.3
	6.0	3.3	3.2	2.5	2.3
	7.5	3.4	3.2	2.5	2.3
	10.0	3.6	3.2	2.5	2.3
	12.5	3.7	3.2	2.5	2.3
	15.5	3.7	3.2	2.5	2.3
32 (3.6)	-20.0	2.1	2.0	2.0	2.0
	-15.0	2.5	2.4	2.4	2.3
	-10.0	2.9	2.8	2.7	2.6
	-5.0	3.3	3.2	3.1	2.8
	0.0	3.7	3.6	3.2	2.8
	2.5	3.8	3.8	3.2	2.8
	6.0	4.1	4.0	3.2	2.8
	7.5	4.2	4.0	3.2	2.8
	10.0	4.4	4.0	3.2	2.8
	12.5	4.6	4.0	3.2	2.8
	15.5	4.6	4.0	3.2	2.8
40 (4.5)	-20.0	2.7	2.6	2.6	2.5
	-15.0	3.1	3.0	3.0	2.9
	-10.0	3.6	3.5	3.4	3.3
	-5.0	4.1	4.0	3.9	3.5
	0.0	4.6	4.5	4.0	3.5
	2.5	4.8	4.8	4.0	3.5
	6.0	5.2	5.0	4.0	3.5
	7.5	5.3	5.0	4.0	3.5
	10.0	5.6	5.0	4.0	3.5
	12.5	5.8	5.0	4.0	3.5
	15.5	5.8	5.0	4.0	3.5

2.4a. Cooling capacity in combination with PUHY-P700,750,800YSGM

PMFY-P-VBM-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.7	2.2	1.8	2.4	1.8	2.4	1.8	2.5	1.9	2.7	1.9	2.9	1.8
	22.5	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.8	2.5	1.8	2.7	1.8	2.8	1.8
	25.0	2.1	1.7	2.1	1.7	2.3	1.7	2.4	1.8	2.4	1.8	2.6	1.8	2.8	1.8
	27.5	2.0	1.7	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.8	2.6	1.8	2.7	1.8
	30.0	2.0	1.6	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.8	2.5	1.8	2.7	1.8
	32.5	1.9	1.6	2.0	1.7	2.2	1.7	2.2	1.7	2.3	1.8	2.5	1.8	2.6	1.7
	35.0	1.9	1.6	2.0	1.7	2.1	1.6	2.2	1.7	2.3	1.8	2.4	1.7	2.6	1.7
	37.5	1.9	1.6	2.0	1.7	2.1	1.6	2.2	1.7	2.2	1.8	2.4	1.7	2.5	1.7
	40.0	1.8	1.6	1.9	1.6	2.0	1.6	2.1	1.7	2.2	1.7	2.3	1.7	2.5	1.7
	43.0	1.8	1.6	1.8	1.6	2.0	1.6	2.1	1.6	2.1	1.7	2.3	1.7	2.4	1.7
25 (2.8)	20.0	2.7	2.1	2.8	2.1	3.0	2.1	3.1	2.2	3.2	2.3	3.4	2.2	3.7	2.2
	22.5	2.7	2.0	2.8	2.1	3.0	2.1	3.1	2.1	3.2	2.2	3.4	2.2	3.6	2.2
	25.0	2.6	2.0	2.7	2.1	2.9	2.1	3.0	2.1	3.1	2.2	3.3	2.2	3.5	2.2
	27.5	2.6	2.0	2.7	2.1	2.9	2.1	3.0	2.1	3.1	2.2	3.3	2.2	3.5	2.1
	30.0	2.5	2.0	2.6	2.1	2.8	2.0	2.9	2.1	3.0	2.2	3.2	2.1	3.4	2.1
	32.5	2.5	2.0	2.6	2.0	2.7	2.0	2.8	2.1	2.9	2.1	3.1	2.1	3.3	2.1
	35.0	2.4	1.9	2.5	2.0	2.7	2.0	2.8	2.0	2.9	2.1	3.1	2.1	3.3	2.1
	37.5	2.4	1.9	2.5	2.0	2.6	2.0	2.7	2.0	2.8	2.1	3.0	2.1	3.2	2.1
	40.0	2.4	1.9	2.4	2.0	2.6	2.0	2.7	2.0	2.8	2.1	3.0	2.1	3.2	2.0
	43.0	2.3	1.9	2.4	1.9	2.5	1.9	2.6	2.0	2.7	2.1	2.9	2.0	3.1	2.0
32 (3.6)	20.0	3.5	2.5	3.6	2.5	3.9	2.5	4.0	2.6	4.1	2.7	4.4	2.6	4.7	2.6
	22.5	3.4	2.4	3.5	2.5	3.8	2.5	3.9	2.5	4.1	2.6	4.4	2.6	4.6	2.6
	25.0	3.4	2.4	3.5	2.5	3.7	2.5	3.9	2.5	4.0	2.6	4.2	2.6	4.5	2.5
	27.5	3.3	2.4	3.4	2.4	3.7	2.4	3.8	2.5	3.9	2.6	4.2	2.6	4.5	2.5
	30.0	3.2	2.3	3.4	2.4	3.6	2.4	3.7	2.4	3.9	2.5	4.1	2.5	4.4	2.5
	32.5	3.2	2.3	3.3	2.4	3.5	2.4	3.7	2.4	3.8	2.5	4.0	2.5	4.3	2.5
	35.0	3.1	2.3	3.2	2.4	3.5	2.3	3.6	2.4	3.7	2.5	4.0	2.5	4.2	2.4
	37.5	3.1	2.3	3.2	2.3	3.4	2.3	3.5	2.4	3.7	2.5	3.9	2.4	4.1	2.4
	40.0	3.0	2.2	3.1	2.3	3.3	2.3	3.5	2.3	3.6	2.4	3.8	2.4	4.1	2.4
	43.0	3.0	2.2	3.0	2.3	3.2	2.2	3.4	2.3	3.5	2.4	3.7	2.4	4.0	2.3
40 (4.5)	20.0	4.3	3.0	4.5	3.1	4.8	3.1	5.0	3.1	5.2	3.2	5.5	3.2	5.9	3.2
	22.5	4.3	3.0	4.4	3.1	4.7	3.1	4.9	3.1	5.1	3.2	5.4	3.2	5.8	3.1
	25.0	4.2	3.0	4.4	3.0	4.7	3.0	4.8	3.1	5.0	3.2	5.3	3.1	5.7	3.1
	27.5	4.1	2.9	4.3	3.0	4.6	3.0	4.7	3.0	4.9	3.1	5.2	3.1	5.6	3.1
	30.0	4.1	2.9	4.2	2.9	4.5	2.9	4.7	3.0	4.8	3.1	5.1	3.1	5.5	3.0
	32.5	4.0	2.8	4.1	2.9	4.4	2.9	4.6	2.9	4.7	3.0	5.0	3.0	5.4	3.0
	35.0	3.9	2.8	4.1	2.9	4.3	2.8	4.5	2.9	4.6	3.0	5.0	3.0	5.3	2.9
	37.5	3.8	2.8	4.0	2.8	4.3	2.8	4.4	2.9	4.6	3.0	4.9	2.9	5.2	2.9
	40.0	3.8	2.7	3.9	2.8	4.2	2.8	4.3	2.8	4.5	2.9	4.8	2.9	5.1	2.9
	43.0	3.7	2.7	3.8	2.7	4.1	2.7	4.2	2.8	4.4	2.9	4.7	2.9	5.0	2.8

2.4b. Heating capacity in combination with PUHY-P700,750,800YSGM

PMFY-P-VBM-E

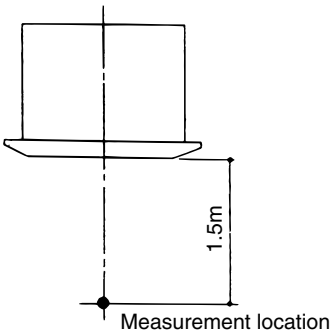
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
20 (2.2)	-20.0	1.3	1.3	1.3	1.2
	-15.0	1.5	1.5	1.5	1.5
	-10.0	1.8	1.8	1.7	1.7
	-5.0	2.0	2.0	1.9	1.8
	0.0	2.3	2.2	2.0	1.8
	2.5	2.4	2.4	2.0	1.8
	6.0	2.6	2.5	2.0	1.8
	7.5	2.7	2.5	2.0	1.8
	10.0	2.8	2.5	2.0	1.8
	12.5	2.9	2.5	2.0	1.8
	15.5	2.9	2.5	2.0	1.8
25 (2.8)	-20.0	1.6	1.6	1.6	1.6
	-15.0	2.0	1.9	1.9	1.9
	-10.0	2.3	2.2	2.2	2.1
	-5.0	2.6	2.6	2.5	2.4
	0.0	2.9	2.9	2.5	2.4
	2.5	3.1	3.0	2.5	2.4
	6.0	3.3	3.2	2.5	2.4
	7.5	3.4	3.2	2.5	2.4
	10.0	3.6	3.2	2.5	2.4
	12.5	3.7	3.2	2.5	2.4
	15.5	3.7	3.2	2.5	2.4
32 (3.6)	-20.0	2.0	2.0	2.0	2.0
	-15.0	2.4	2.4	2.4	2.3
	-10.0	2.8	2.8	2.7	2.7
	-5.0	3.2	3.2	3.1	2.9
	0.0	3.6	3.6	3.2	2.9
	2.5	3.8	3.8	3.2	2.9
	6.0	4.1	4.0	3.2	2.9
	7.5	4.2	4.0	3.2	2.9
	10.0	4.4	4.0	3.2	2.9
	12.5	4.6	4.0	3.2	2.9
	15.5	4.6	4.0	3.2	2.9
40 (4.5)	-20.0	2.5	2.5	2.5	2.5
	-15.0	3.1	3.0	3.0	2.9
	-10.0	3.6	3.5	3.4	3.4
	-5.0	4.1	4.0	3.9	3.7
	0.0	4.6	4.5	4.0	3.7
	2.5	4.8	4.7	4.0	3.7
	6.0	5.2	5.0	4.0	3.7
	7.5	5.3	5.0	4.0	3.7
	10.0	5.6	5.0	4.0	3.7
	12.5	5.8	5.0	4.0	3.7
	15.5	5.8	5.0	4.0	3.7

3. Sound Levels

3.1 Noise levels

Casette ceiling (VBM-E series)

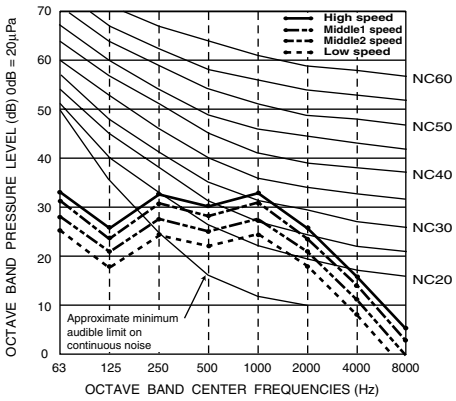


Noise level at anechoic room
(Low-Middle2-Middle1-High) Unit : dB(A)

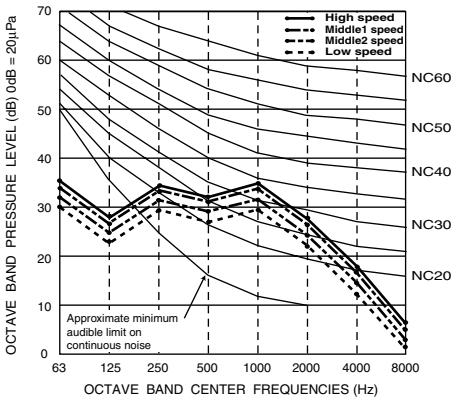
Model	Noise level (A weighted)
PMFY-P20VBM-E	27-30-33-35
PMFY-P25VBM-E PMFY-P32VBM-E	32-34-36-37
PMFY-P40VBM-E	33-35-37-39

3.2 NC curves

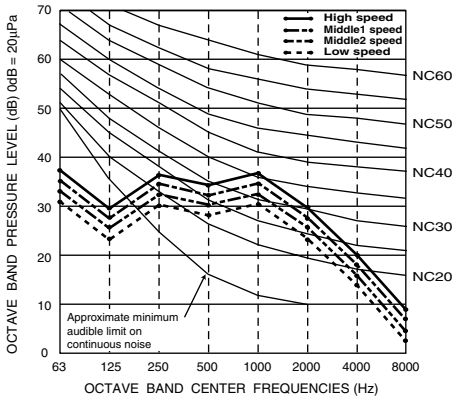
PMFY-P20VBM-E



PMFY-P25,32VBM-E



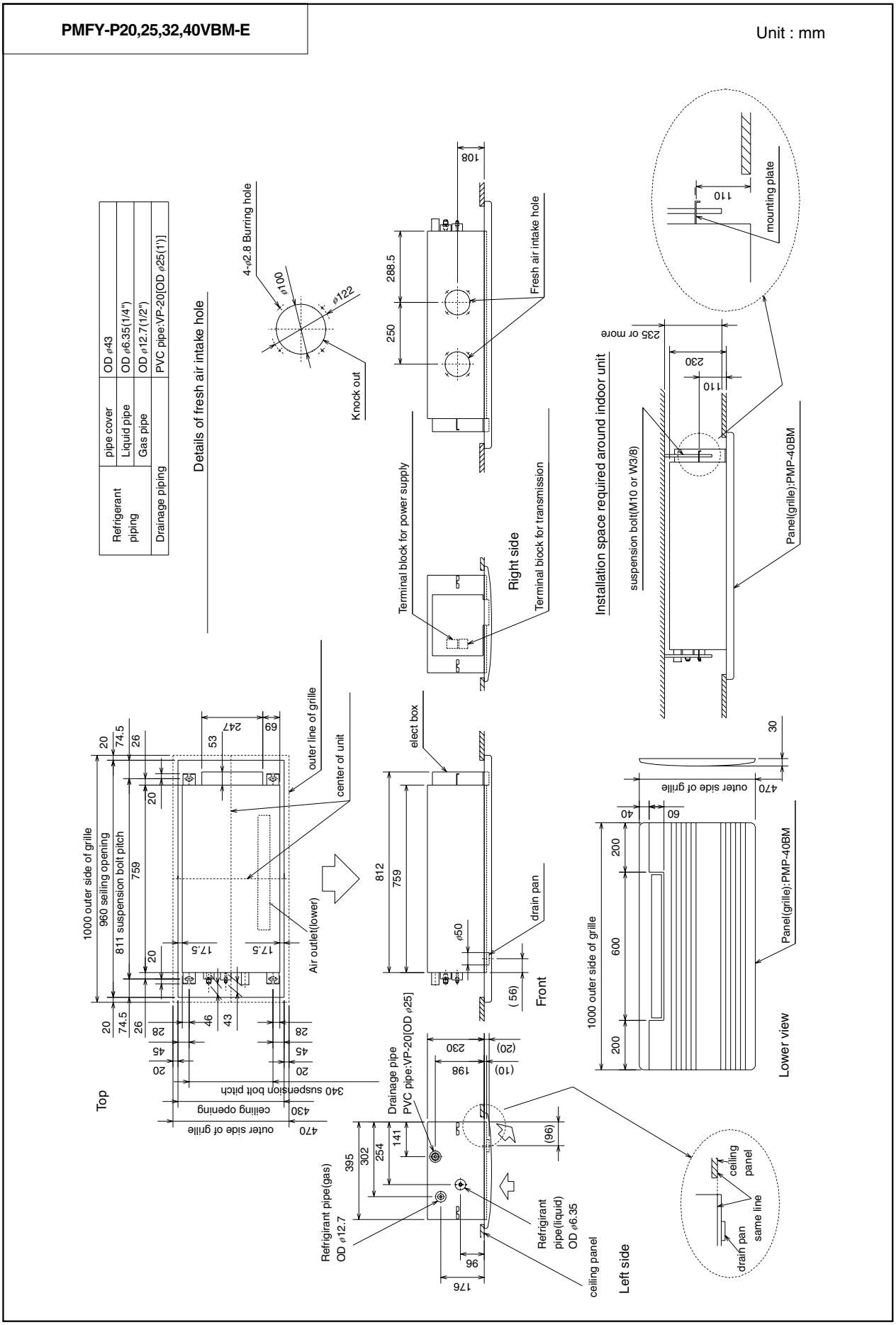
PMFY-P40VBM-E



4. External Dimension

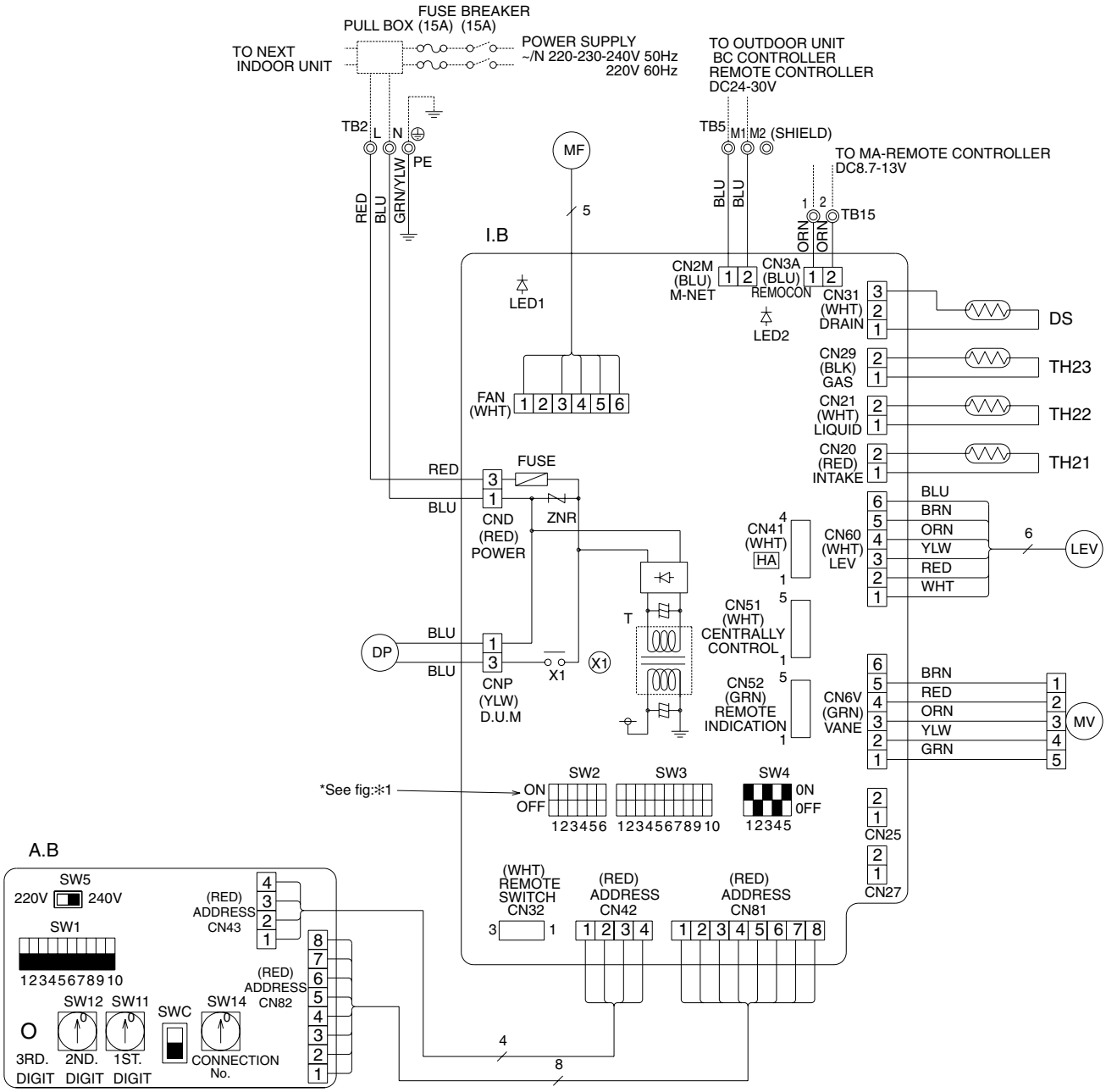
PMFY-P20,25,32,40VBM-E

Unit : mm



PMFY-P-VBM-E

5. Electrical Wiring Diagram



<SYMBOL EXPLANATION>

SYMBOL		NAME	SYMBOL	NAME
I.B		INDOOR CONTROLLER BOARD	MF	FAN MOTOR
CN25	CONNECTOR	HUMIDIFIER	MV	VANE MOTOR
CN27		DAMPER	DP	DRAIN WATER LIFTING-UP MACH.
CN32		REMOTE SWITCH	DS	DRAIN SENSOR
CN41		HA TERMINAL-A	TB2	TERMINAL BLOCK: POWER SUPPLY
CN51		CENTRALLY CONTROL	TB5	TERMINAL BLOCK: TRANSMISSION
CN52		REMOTE INDICATION	TB15	TERMINAL BLOCK: MA-REMOTE CONTROLLER
SW2	SWITCH	CAPACITY CODE	TH21	THERMISTOR: ROOM TEMPERATURE DETECTION (0˚C/15kΩ, 25˚C/5.4kΩ)
SW3		MODE SELECTION		
SW4		MODEL SELECTION	TH22	THERMISTOR: PIPE TEMPERATURE DETECTION/LIQUID (0˚C/15kΩ, 25˚C/5.4kΩ)
ZNR	VARISTOR			
FUSE	FUSE(6.3A/250V)		TH23	THERMISTOR: PIPE TEMPERATURE DETECTION/GAS (0˚C/15kΩ, 25˚C/5.4kΩ)
X1	AUX.RELAY	DRAIN PUMP		
T	TRANSFORMER		LEV	LINEAR EXPANSION VALVE
LED1	POWER SUPPLY(I.B)			
LED2	POWER SUPPLY(I.B)			
A.B	CIRCUIT BOARD			
SW1	SWITCH	MODE SELECTION		
SW5		VOLTAGE SELECTION		
SW11		ADDRESS SETTING 1ST DIGIT		
SW12		ADDRESS SETTING 2ND DIGIT		
SW14		CONNECTION NO.		

<*1>

MODELS	SW2	SW3
P20	0N 0FF 123456	0N 0FF 12345678910
P25	0N 0FF 123456	0N 0FF 12345678910
P32	0N 0FF 123456	0N 0FF 12345678910
P40	0N 0FF 123456	0N 0FF 12345678910

NOTES:

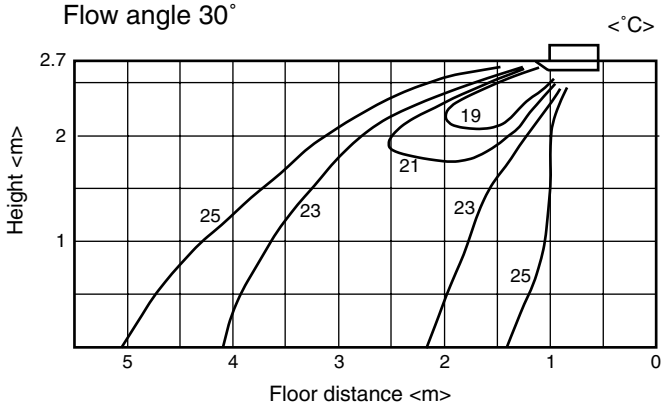
1. At servicing for outdoor unit, always follow the wiring diagram of outdoor unit.
2. Symbol [S] of TB5 is the shield wire connection.
3. Symbols used in wiring diagram above are, ◎:terminal block, ▭:connector.
4. The setting of the SW2 dip switches differs in the capacity for the detail, see the table <*1>.
5. Please set the switch SW5 according to the power supply voltage. Set SW5 to 240V side when the power supply is 230 and 240 volts. When the power supply is 220 volts, set SW5 to 220V side.

PMFY-P-VBM-E

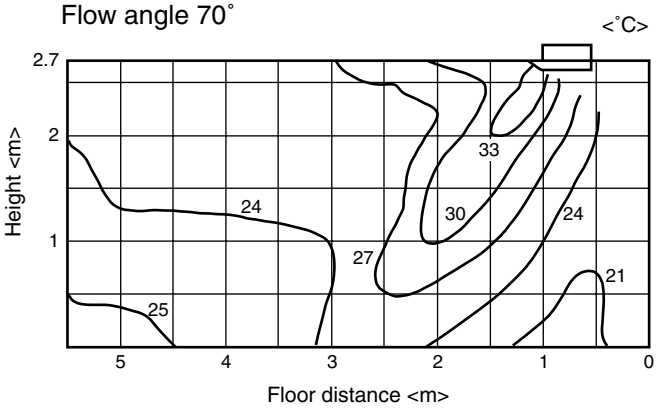
6. Temperature/Airflow distribution

6.1 Temperature distribution

<Cooling mode>
Flow angle 30˚

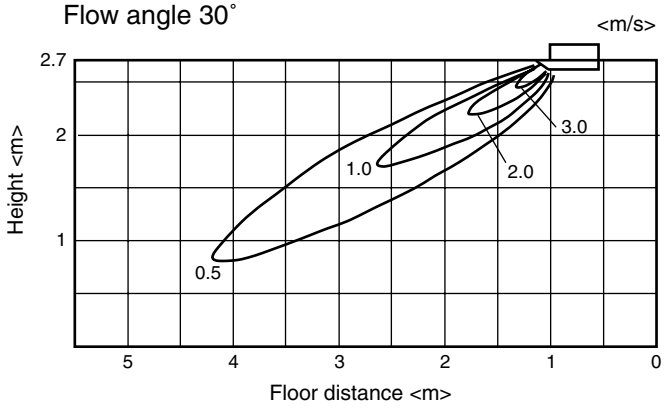


<Heating mode>
Flow angle 70˚

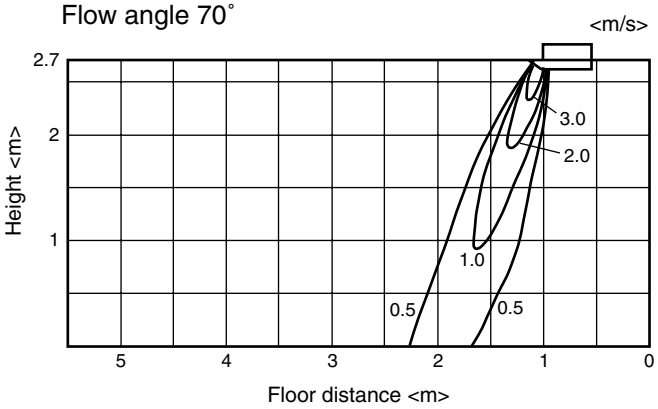


6.2 Airflow distribution

<Fan mode>
Flow angle 30˚



<Fan mode>
Flow angle 70˚



PMFY-P-VBM-E

7. Options

Description	Model	Applicable capacity
Decoration panel	PMP-40BM	P20/P25/P32/P40

Cassette ceiling(2-way flow) PLFY-P-VLMD-E

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PLFY-P-VLMD-E

Model Name	20	25	32	40	50	63	71	80	100	125	140	200	250
PLFY-P-VLMD-E	●	●	●	●	●	●		●	●	●			

1. Specifications

			PLFY-P20VLMD-E	PLFY-P25VLMD-E	PLFY-P32VLMD-E	PLFY-P40VLMD-E
Power source			~ 220-240V 50Hz / ~ 220-230V 60Hz			
Cooling capacity	✻1	kW	2.2	2.8	3.6	4.5
	✻1	BTU/h	7,500	9,550	12,280	15,350
	✻2	kW	2.3	2.9	3.7	4.7
	✻2	kcal/h	2,000	2,500	3,150	4,000
Heating capacity	✻1	kW	2.5	3.2	4.0	5.0
	✻1	BTU/h	8,530	10,750	13,640	17,060
	✻2	kW	2.6	3.3	4.1	5.2
	✻2	kcal/h	2,250	2,800	3,550	4,500
Power consumption	Cooling	kW	0.072 / 0.075	0.072 / 0.075	0.072 / 0.075	0.081 / 0.085
	Heating	kW	0.065 / 0.069	0.065 / 0.069	0.065 / 0.069	0.074 / 0.079
Current	Cooling	A	0.36 / 0.37	0.36 / 0.37	0.36 / 0.37	0.40 / 0.42
	Heating	A	0.30 / 0.32	0.30 / 0.32	0.30 / 0.32	0.34 / 0.37
External finish(Munsel No.)			Unit: Galvanizing Decoration Panel: ABS (0.7Y 8.59/0.97) Service Panel: Galvanizing (0.7Y 8.59/0.97)			
Dimension H x W x D ✻3		mm	290(20) x 776(1,080) x 634(710)			
Net weight ✻3		kg	23 <6.5>		24 <6.5>	
Heat exchanger			Cross fin			
Fan	Type		Turbo fan×1			
	Airflow rate (Lo-Mid-Hi)	m³/min	6.5-8.0-9.5			7.0-8.5-10.5
	External static pressure	Pa	0			
Motor	Type		Single phase induction motor			
	Output	kW	0.015			
Air filter			PP honeycomb fabric (long life filter)			
Refrigerant pipe dimension	Gas(Flare)	mm	ø 12.7			
	Liquid(Flare)	mm	ø 6.35			
Drain pipe dimension			Unit drain pipe I.D.32 (1-1/4inch)			
Noise level (Lo-Mid-Hi) ✻4	220V,240V	dB(A)	27-30-33			29-33-36
	230V	dB(A)	28-31-34			30-34-37

			PLFY-P50VLMD-E	PLFY-P63VLMD-E	PLFY-P80VLMD-E	PLFY-P100VLMD-E	PLFY-P125VLMD-E
Power source			~ 220-240V 50Hz / ~ 220-230V 60Hz				
Cooling capacity	✻1	kW	5.6	7.1	9.0	11.2	14.0
	✻1	BTU/h	19,100	24,220	30,700	38,200	47,750
	✻2	kW	5.8	7.3	9.3	11.6	14.5
	✻2	kcal/h	5,000	6,300	8,000	10,000	12,500
Heating capacity	✻1	kW	6.3	8.0	10.0	12.5	16.0
	✻1	BTU/h	21,500	27,290	34,120	42,650	54,580
	✻2	kW	6.5	8.3	10.5	13.0	16.3
	✻2	kcal/h	5,600	7,100	9,000	11,200	14,000
Power consumption	Cooling	kW	0.082 / 0.086	0.101 / 0.105	0.147 / 0.156	0.157 / 0.186	0.28 / 0.28
	Heating	kW	0.075 / 0.080	0.094 / 0.099	0.140 / 0.150	0.150 / 0.180	0.27 / 0.27
Current	Cooling	A	0.41 / 0.43	0.49 / 0.51	0.72 / 0.74	0.75 / 0.88	1.35 / 1.35
	Heating	A	0.35 / 0.38	0.43 / 0.46	0.66 / 0.69	0.69 / 0.83	1.33 / 1.33
External finish(Munsel No.)			Unit: Galvanizing Decoration Panel: ABS (0.7Y 8.59/0.97) Service Panel: Galvanizing (0.7Y 8.59/0.97)				
Dimension H x W x D ✻3		mm	290(20) x 946(1,250) x 634(710)		290(20) x 1,446(1,750) x 634(710)		290(20) x 1,708(2,010) x 606(710)
Net weight ✻3		kg	27 <7.5>	28 <7.5>	44 <12.5>	47 <12.5>	56 <13.0>
Heat exchanger			Cross fin				
Fan	Type		Turbo fan×1		Turbo fan×2		Sirocco fan×4
	Airflow rate (Lo-Mid-Hi)	m³/min	9.0-11.0-12.5	10.0-13.0-15.5	15.5-18.5-22.0	17.5-21.0-25.0	24.0-27.0-30.0-33.0 (Lo-Mid2-Mid1-Hi)
	External static pressure	Pa	0				
Motor	Type		Single phase induction motor				
	Output	kW	0.020		0.020 (at 240V)	0.030 (at 240V)	0.078×2(at 240V)
Air filter			PP honeycomb fabric (long life filter)				Synthetic fiber unwoven cloth filter (long life)
Refrigerant pipe dimension	Gas(Flare)	mm	ø 12.7 (R410A) ø 15.88 (R22,R407C)	ø 15.88		ø 15.88 (R410A) ø 19.05 (R22,R407C)	
	Liquid(Flare)	mm	ø 6.35 (R410A) ø 9.52 (R22,R407C)	ø 9.52			
Drain pipe dimension			Unit drain pipe I.D.32 (1-1/4inch)				
Noise level (Lo-Mid-Hi) ✻4	220V,240V	dB(A)	31-34-37	32-37-39	33-36-39	36-39-42	40-42-44-46 (Lo-Mid2-Mid1-Hi)
	230V	dB(A)	32-35-38	33-38-40	34-37-40	37-41-43	

Note: ✻1 Cooling/Heating capacity indicates the maximum value at operation under the following condition.
Cooling : Indoor 27˚CDB/19˚CWB,Outdoor 35˚CDB
Heating : Indoor 20˚CDB,Outdoor 7˚CDB/6˚CWB
✻2 Cooling capacity indicates the maximum value at operation under the following condition.
Cooling : Indoor 27˚CDB/19.5˚CWB,Outdoor 35˚CDB (WR2: water 30˚C)
Heating : Indoor 21˚CDB,Outdoor 7˚CDB/6˚CWB (WR2: water 20˚C)
✻3 The figure in ( ) indicates panel's
✻4 It is measured in anechoic room.

2. Capacity Tables

2.1a. Cooling capacity in combination with PUHY,PUY,PURY-P200,250YGM

PLFY-P-VLMD-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.0	1.7	2.1	1.8	2.3	1.8	2.4	1.8	2.4	1.9	2.6	1.9	2.8	1.8
	22.5	2.0	1.7	2.1	1.8	2.3	1.8	2.4	1.8	2.4	1.9	2.6	1.9	2.8	1.8
	25.0	2.0	1.7	2.1	1.8	2.3	1.8	2.4	1.8	2.4	1.9	2.6	1.9	2.7	1.8
	27.5	2.0	1.7	2.1	1.8	2.2	1.7	2.3	1.8	2.4	1.9	2.5	1.8	2.7	1.8
	30.0	1.9	1.7	2.0	1.7	2.2	1.7	2.3	1.8	2.3	1.8	2.5	1.8	2.6	1.8
	32.5	1.9	1.6	2.0	1.7	2.1	1.7	2.2	1.8	2.3	1.8	2.4	1.8	2.6	1.8
	35.0	1.9	1.6	2.0	1.7	2.1	1.7	2.2	1.7	2.2	1.8	2.4	1.8	2.5	1.8
	37.5	1.8	1.6	1.9	1.7	2.0	1.7	2.1	1.7	2.2	1.8	2.3	1.8	2.5	1.7
	40.0	1.8	1.6	1.9	1.7	2.0	1.7	2.1	1.7	2.1	1.8	2.3	1.7	2.4	1.7
	43.0	1.8	1.6	1.8	1.6	2.0	1.6	2.0	1.7	2.0	1.7	2.2	1.7	2.4	1.7
25 (2.8)	20.0	2.5	1.9	2.7	2.0	2.9	2.0	3.0	2.1	3.1	2.1	3.3	2.1	3.5	2.1
	22.5	2.5	1.9	2.7	2.0	2.9	2.0	3.0	2.1	3.1	2.1	3.3	2.1	3.5	2.1
	25.0	2.5	1.9	2.7	2.0	2.9	2.0	3.0	2.1	3.1	2.1	3.3	2.1	3.5	2.1
	27.5	2.5	1.9	2.6	2.0	2.8	2.0	3.0	2.1	3.0	2.1	3.2	2.1	3.4	2.1
	30.0	2.5	1.9	2.6	2.0	2.8	2.0	2.9	2.0	3.0	2.1	3.1	2.1	3.3	2.0
	32.5	2.4	1.9	2.5	2.0	2.7	2.0	2.8	2.0	2.9	2.1	3.1	2.0	3.3	2.0
	35.0	2.4	1.9	2.5	1.9	2.7	1.9	2.8	2.0	2.8	2.0	3.0	2.0	3.2	2.0
	37.5	2.4	1.8	2.5	1.9	2.6	1.9	2.7	2.0	2.8	2.0	3.0	2.0	3.1	2.0
	40.0	2.3	1.8	2.4	1.9	2.6	1.9	2.7	1.9	2.7	2.0	2.9	2.0	3.1	1.9
	43.0	2.3	1.8	2.4	1.9	2.5	1.9	2.6	1.9	2.6	1.9	2.8	1.9	3.0	1.9
32 (3.6)	20.0	3.2	2.4	3.4	2.5	3.7	2.5	3.9	2.6	4.0	2.7	4.2	2.7	4.6	2.6
	22.5	3.2	2.4	3.4	2.5	3.7	2.5	3.9	2.6	4.0	2.7	4.2	2.7	4.6	2.6
	25.0	3.2	2.4	3.4	2.5	3.7	2.5	3.9	2.6	4.0	2.7	4.2	2.6	4.5	2.6
	27.5	3.2	2.4	3.4	2.5	3.6	2.5	3.8	2.6	3.9	2.6	4.1	2.6	4.4	2.6
	30.0	3.2	2.4	3.3	2.5	3.6	2.5	3.7	2.5	3.8	2.6	4.0	2.6	4.3	2.5
	32.5	3.1	2.3	3.3	2.4	3.5	2.4	3.7	2.5	3.7	2.6	4.0	2.5	4.2	2.5
	35.0	3.1	2.3	3.2	2.4	3.4	2.4	3.6	2.5	3.7	2.5	3.9	2.5	4.1	2.5
	37.5	3.0	2.3	3.2	2.4	3.3	2.4	3.5	2.4	3.6	2.5	3.8	2.5	4.0	2.4
	40.0	3.0	2.3	3.1	2.4	3.3	2.3	3.5	2.4	3.5	2.5	3.7	2.4	4.0	2.4
	43.0	2.9	2.3	3.0	2.3	3.2	2.3	3.3	2.4	3.3	2.4	3.6	2.4	3.9	2.4
40 (4.5)	20.0	4.0	2.8	4.3	2.9	4.6	3.0	4.9	3.0	5.0	3.1	5.3	3.1	5.7	3.1
	22.5	4.0	2.8	4.3	2.9	4.6	3.0	4.9	3.0	5.0	3.1	5.3	3.1	5.7	3.1
	25.0	4.0	2.8	4.3	2.9	4.6	3.0	4.9	3.0	5.0	3.1	5.3	3.1	5.6	3.0
	27.5	4.0	2.8	4.3	2.9	4.5	2.9	4.8	3.0	4.8	3.0	5.2	3.0	5.5	3.0
	30.0	4.0	2.8	4.2	2.9	4.5	2.9	4.7	2.9	4.8	3.0	5.0	3.0	5.4	2.9
	32.5	3.9	2.7	4.1	2.8	4.4	2.8	4.6	2.9	4.7	3.0	5.0	2.9	5.3	2.9
	35.0	3.8	2.7	4.0	2.8	4.3	2.8	4.5	2.8	4.6	2.9	4.9	2.9	5.2	2.8
	37.5	3.8	2.7	4.0	2.8	4.2	2.7	4.4	2.8	4.5	2.9	4.8	2.8	5.0	2.8
	40.0	3.7	2.6	3.9	2.7	4.1	2.7	4.3	2.8	4.4	2.8	4.7	2.8	5.0	2.8
	43.0	3.6	2.6	3.8	2.7	4.0	2.7	4.2	2.7	4.2	2.7	4.5	2.8	4.8	2.7
50 (5.6)	20.0	5.0	3.5	5.3	3.7	5.8	3.7	6.0	3.8	6.2	3.9	6.6	3.9	7.1	3.9
	22.5	5.0	3.5	5.3	3.7	5.8	3.7	6.0	3.8	6.2	3.9	6.6	3.9	7.1	3.9
	25.0	5.0	3.5	5.3	3.7	5.8	3.7	6.0	3.8	6.2	3.9	6.6	3.9	6.9	3.8
	27.5	5.0	3.5	5.3	3.7	5.7	3.7	5.9	3.8	6.0	3.8	6.4	3.8	6.8	3.8
	30.0	4.9	3.5	5.2	3.6	5.5	3.6	5.8	3.7	5.9	3.8	6.3	3.7	6.7	3.7
	32.5	4.8	3.4	5.1	3.6	5.4	3.6	5.7	3.6	5.8	3.7	6.2	3.7	6.6	3.6
	35.0	4.8	3.4	5.0	3.5	5.3	3.5	5.6	3.6	5.7	3.7	6.0	3.6	6.4	3.6
	37.5	4.7	3.4	4.9	3.5	5.2	3.5	5.5	3.5	5.5	3.6	5.9	3.6	6.3	3.5
	40.0	4.6	3.3	4.8	3.4	5.1	3.4	5.4	3.5	5.5	3.6	5.8	3.5	6.2	3.5
	43.0	4.5	3.3	4.7	3.4	5.0	3.4	5.2	3.4	5.2	3.5	5.7	3.5	6.0	3.4
63 (7.1)	20.0	6.4	4.6	6.8	4.8	7.3	4.8	7.7	4.9	7.8	5.1	8.4	5.0	9.0	5.0
	22.5	6.4	4.6	6.8	4.8	7.3	4.8	7.7	4.9	7.8	5.1	8.4	5.0	9.0	5.0
	25.0	6.4	4.6	6.8	4.8	7.3	4.8	7.7	4.9	7.8	5.1	8.3	5.0	8.8	4.9
	27.5	6.3	4.6	6.7	4.8	7.2	4.8	7.5	4.9	7.6	5.0	8.1	4.9	8.7	4.9
	30.0	6.2	4.5	6.6	4.7	7.0	4.7	7.4	4.8	7.5	4.9	8.0	4.9	8.5	4.8
	32.5	6.1	4.4	6.5	4.7	6.9	4.6	7.2	4.7	7.3	4.9	7.8	4.8	8.3	4.7
	35.0	6.0	4.4	6.4	4.6	6.7	4.6	7.1	4.7	7.2	4.8	7.7	4.7	8.1	4.7
	37.5	6.0	4.4	6.2	4.5	6.6	4.5	6.9	4.6	7.0	4.7	7.5	4.7	8.0	4.6
	40.0	5.9	4.3	6.1	4.5	6.5	4.4	6.8	4.5	6.9	4.7	7.3	4.6	7.8	4.6
	43.0	5.8	4.3	6.0	4.4	6.3	4.4	6.6	4.5	6.6	4.5	7.2	4.5	7.6	4.5
80 (9.0)	20.0	8.1	5.8	8.6	6.1	9.3	6.1	9.7	6.2	9.9	6.4	10.6	6.4	11.4	6.3
	22.5	8.1	5.8	8.6	6.1	9.3	6.1	9.7	6.2	9.9	6.4	10.6	6.4	11.4	6.3
	25.0	8.1	5.8	8.6	6.1	9.3	6.1	9.7	6.2	9.9	6.4	10.5	6.3	11.2	6.2
	27.5	8.0	5.8	8.5	6.0	9.1	6.0	9.5	6.2	9.7	6.3	10.3	6.2	11.0	6.2
	30.0	7.9	5.7	8.4	6.0	8.9	5.9	9.4	6.1	9.5	6.3	10.1	6.2	10.8	6.1
	32.5	7.7	5.6	8.2	5.9	8.7	5.9	9.1	6.0	9.3	6.2	9.9	6.1	10.5	6.0
	35.0	7.7	5.6	8.1	5.8	8.6	5.8	9.0	5.9	9.1	6.1	9.7	6.0	10.3	5.9
	37.5	7.6	5.5	7.9	5.8	8.4	5.7	8.8	5.8	8.9	6.0	9.5	5.9	10.1	5.8
	40.0	7.4	5.5	7.7	5.7	8.2	5.6	8.6	5.8	8.8	5.9	9.3	5.8	9.9	5.8
	43.0	7.3	5.4	7.6	5.6	8.0	5.5	8.4	5.6	8.4	5.7	9.1	5.8	9.6	5.7

Cooling capacity in combination with PUHY,PUY,PURY-P200,250YGM

PLFY-P-VLMD-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
100 (11.2)	20.0	10.0	7.4	10.7	7.8	11.5	7.8	12.1	7.9	12.4	8.2	13.2	8.1	14.2	8.1
	22.5	10.0	7.4	10.7	7.8	11.5	7.8	12.1	7.9	12.4	8.2	13.2	8.1	14.2	8.1
	25.0	10.0	7.4	10.7	7.8	11.5	7.8	12.1	7.9	12.3	8.2	13.1	8.1	13.9	7.9
	27.5	10.0	7.3	10.6	7.7	11.3	7.7	11.9	7.8	12.0	8.0	12.8	8.0	13.7	7.9
	30.0	9.9	7.3	10.4	7.6	11.1	7.6	11.6	7.7	11.9	8.0	12.5	7.9	13.4	7.8
	32.5	9.6	7.2	10.2	7.5	10.9	7.5	11.4	7.6	11.6	7.9	12.3	7.8	13.1	7.7
	35.0	9.5	7.1	10.0	7.4	10.6	7.3	11.2	7.6	11.4	7.8	12.1	7.7	12.8	7.6
	37.5	9.4	7.1	9.9	7.3	10.4	7.2	10.9	7.4	11.1	7.6	11.9	7.6	12.5	7.5
	40.0	9.2	7.0	9.6	7.2	10.2	7.2	10.8	7.4	10.9	7.6	11.6	7.5	12.3	7.4
	43.0	9.1	6.9	9.4	7.1	10.0	7.0	10.4	7.2	10.4	7.4	11.3	7.4	12.0	7.3
125 (14.0)	20.0	12.5	9.4	13.4	9.9	14.4	9.9	15.1	10.1	15.5	10.4	16.5	10.3	17.7	10.3
	22.5	12.5	9.4	13.4	9.9	14.4	9.9	15.1	10.1	15.5	10.4	16.5	10.3	17.7	10.3
	25.0	12.5	9.4	13.4	9.9	14.4	9.9	15.1	10.1	15.4	10.4	16.4	10.3	17.4	10.1
	27.5	12.5	9.3	13.2	9.8	14.1	9.7	14.8	10.0	15.1	10.3	16.0	10.2	17.1	10.0
	30.0	12.3	9.3	13.0	9.7	13.9	9.6	14.6	9.9	14.8	10.2	15.7	10.0	16.7	9.9
	32.5	12.0	9.1	12.7	9.6	13.6	9.5	14.2	9.7	14.5	10.0	15.4	9.9	16.4	9.8
	35.0	11.9	9.1	12.5	9.5	13.3	9.4	14.0	9.6	14.2	9.9	15.1	9.8	16.0	9.6
	37.5	11.8	9.0	12.3	9.4	13.0	9.2	13.7	9.5	13.9	9.8	14.8	9.7	15.7	9.5
	40.0	11.6	8.9	12.0	9.2	12.8	9.1	13.4	9.4	13.7	9.7	14.5	9.6	15.4	9.4
	43.0	11.3	8.8	11.8	9.1	12.5	9.0	13.0	9.2	13.0	9.4	14.1	9.4	15.0	9.3

2.1b. Heating capacity in combination with PUHY,PUY,PURY-P200,250YGM

PLFY-P-VLMD-E

SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
20 (2.2)	-20.0	1.3	1.3	1.3	1.3
	-15.0	1.6	1.5	1.5	1.5
	-10.0	1.8	1.8	1.8	1.7
	-5.0	2.1	2.1	2.0	1.8
	0.0	2.4	2.4	2.0	1.8
	2.5	2.5	2.5	2.0	1.8
	6.0	2.6	2.5	2.0	1.8
	7.5	2.7	2.5	2.0	1.8
	10.0	2.9	2.5	2.0	1.8
	12.5	3.0	2.5	2.0	1.8
	15.5	3.2	2.5	2.0	1.8
25 (2.8)	-20.0	1.6	1.6	1.6	1.6
	-15.0	2.0	2.0	1.9	1.9
	-10.0	2.3	2.3	2.2	2.2
	-5.0	2.7	2.7	2.6	2.2
	0.0	3.0	3.0	2.6	2.2
	2.5	3.2	3.2	2.6	2.2
	6.0	3.3	3.2	2.6	2.2
	7.5	3.4	3.2	2.6	2.2
	10.0	3.6	3.2	2.6	2.2
	12.5	3.9	3.2	2.6	2.2
	15.5	4.1	3.2	2.6	2.2
32 (3.6)	-20.0	2.1	2.0	2.0	2.0
	-15.0	2.5	2.4	2.4	2.4
	-10.0	2.9	2.9	2.8	2.7
	-5.0	3.4	3.3	3.2	2.8
	0.0	3.8	3.8	3.2	2.8
	2.5	4.0	4.0	3.2	2.8
	6.0	4.2	4.0	3.2	2.8
	7.5	4.3	4.0	3.2	2.8
	10.0	4.6	4.0	3.2	2.8
	12.5	4.8	4.0	3.2	2.8
	15.5	5.1	4.0	3.2	2.8
40 (4.5)	-20.0	2.6	2.5	2.5	2.5
	-15.0	3.1	3.1	3.0	3.0
	-10.0	3.7	3.6	3.5	3.4
	-5.0	4.2	4.2	4.0	3.5
	0.0	4.7	4.7	4.0	3.5
	2.5	5.0	5.0	4.0	3.5
	6.0	5.2	5.0	4.0	3.5
	7.5	5.4	5.0	4.0	3.5
	10.0	5.7	5.0	4.0	3.5
	12.5	6.0	5.0	4.0	3.5
	15.5	6.4	5.0	4.0	3.5
50 (5.6)	-20.0	3.2	3.2	3.2	3.2
	-15.0	3.9	3.8	3.8	3.7
	-10.0	4.6	4.5	4.4	4.3
	-5.0	5.3	5.2	5.0	4.4
	0.0	6.0	5.9	5.0	4.4
	2.5	6.3	6.2	5.0	4.4
	6.0	6.6	6.3	5.0	4.4
	7.5	6.8	6.3	5.0	4.4
	10.0	7.2	6.3	5.0	4.4
	12.5	7.6	6.3	5.0	4.4
	15.5	8.1	6.3	5.0	4.4
63 (7.1)	-20.0	4.1	4.0	4.0	4.0
	-15.0	5.0	4.9	4.8	4.7
	-10.0	5.8	5.8	5.6	5.5
	-5.0	6.7	6.6	6.4	5.6
	0.0	7.6	7.5	6.4	5.6
	2.5	8.0	7.9	6.4	5.6
	6.0	8.3	8.0	6.4	5.6
	7.5	8.6	8.0	6.4	5.6
	10.0	9.1	8.0	6.4	5.6
	12.5	9.6	8.0	6.4	5.6
	15.5	10.2	8.0	6.4	5.6
80 (9.0)	-20.0	5.2	5.0	5.0	5.0
	-15.0	6.2	6.1	6.0	5.9
	-10.0	7.3	7.2	7.0	6.9
	-5.0	8.4	8.3	8.0	7.0
	0.0	9.5	9.4	8.0	7.0
	2.5	10.0	9.9	8.0	7.0
	6.0	10.4	10.0	8.0	7.0
	7.5	10.8	10.0	8.0	7.0
	10.0	11.4	10.0	8.0	7.0
	12.5	12.1	10.0	8.0	7.0
	15.5	12.8	10.0	8.0	7.0

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
100 (11.2)	-20.0	6.4	6.3	6.3	6.3
	-15.0	7.8	7.6	7.5	7.4
	-10.0	9.1	9.0	8.8	8.6
	-5.0	10.5	10.4	10.0	8.8
	0.0	11.8	11.8	10.0	8.8
	2.5	12.5	12.4	10.0	8.8
	6.0	13.0	12.5	10.0	8.8
	7.5	13.4	12.5	10.0	8.8
	10.0	14.3	12.5	10.0	8.8
	12.5	15.1	12.5	10.0	8.8
	15.5	16.0	12.5	10.0	8.8
125 (14.0)	-20.0	8.2	8.0	8.0	8.0
	-15.0	9.9	9.8	9.6	9.4
	-10.0	11.7	11.5	11.2	11.0
	-5.0	13.4	13.3	12.8	11.2
	0.0	15.1	15.0	12.8	11.2
	2.5	16.0	15.8	12.8	11.2
	6.0	16.6	16.0	12.8	11.2
	7.5	17.2	16.0	12.8	11.2
	10.0	18.2	16.0	12.8	11.2
	12.5	19.3	16.0	12.8	11.2
	15.5	20.5	16.0	12.8	11.2

2.2a. Cooling capacity in combination with PUHY,PUY,PURY-P300,350,400YGM

PLFY-P-VLMD-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.7	2.2	1.8	2.4	1.8	2.5	1.8	2.5	1.9	2.7	1.9	2.9	1.9
	22.5	2.1	1.7	2.2	1.8	2.3	1.8	2.4	1.8	2.5	1.9	2.6	1.9	2.8	1.9
	25.0	2.1	1.7	2.2	1.8	2.3	1.8	2.4	1.8	2.4	1.9	2.6	1.9	2.8	1.8
	27.5	2.1	1.7	2.1	1.8	2.3	1.8	2.3	1.8	2.4	1.9	2.5	1.8	2.7	1.8
	30.0	2.0	1.7	2.1	1.7	2.2	1.7	2.3	1.8	2.4	1.8	2.5	1.8	2.6	1.8
	32.5	2.0	1.7	2.0	1.7	2.2	1.7	2.2	1.8	2.3	1.8	2.4	1.8	2.6	1.8
	35.0	2.0	1.7	2.0	1.7	2.1	1.7	2.2	1.7	2.3	1.8	2.4	1.8	2.5	1.8
	37.5	1.9	1.7	1.9	1.7	2.1	1.7	2.1	1.7	2.2	1.8	2.4	1.8	2.5	1.7
	40.0	1.9	1.6	1.9	1.7	2.0	1.7	2.1	1.7	2.4	1.9	2.3	1.8	2.4	1.7
	43.0	1.8	1.6	1.8	1.6	2.0	1.6	2.0	1.7	2.1	1.8	2.2	1.7	2.4	1.7
25 (2.8)	20.0	2.7	2.0	2.8	2.1	3.0	2.1	3.1	2.1	3.2	2.2	3.4	2.2	3.6	2.1
	22.5	2.7	2.0	2.8	2.1	3.0	2.1	3.1	2.1	3.2	2.2	3.4	2.2	3.6	2.1
	25.0	2.7	2.0	2.7	2.1	2.9	2.0	3.0	2.1	3.1	2.2	3.3	2.1	3.5	2.1
	27.5	2.6	2.0	2.7	2.0	2.9	2.0	3.0	2.1	3.1	2.1	3.2	2.1	3.4	2.1
	30.0	2.6	2.0	2.6	2.0	2.8	2.0	2.9	2.0	3.0	2.1	3.2	2.1	3.4	2.0
	32.5	2.5	1.9	2.6	2.0	2.8	2.0	2.9	2.0	2.9	2.1	3.1	2.1	3.3	2.0
	35.0	2.5	1.9	2.5	2.0	2.7	1.9	2.8	2.0	2.9	2.1	3.1	2.0	3.2	2.0
	37.5	2.5	1.9	2.5	1.9	2.6	1.9	2.7	2.0	2.8	2.0	3.0	2.0	3.2	2.0
	40.0	2.4	1.9	2.4	1.9	2.6	1.9	2.7	1.9	3.0	2.1	2.9	2.0	3.1	2.0
	43.0	2.4	1.8	2.4	1.9	2.5	1.9	2.6	1.9	2.7	2.0	2.8	2.0	3.0	1.9
32 (3.6)	20.0	3.5	2.5	3.6	2.6	3.9	2.6	4.0	2.7	4.2	2.8	4.4	2.7	4.7	2.7
	22.5	3.5	2.5	3.6	2.6	3.8	2.6	4.0	2.6	4.1	2.7	4.3	2.7	4.6	2.6
	25.0	3.4	2.5	3.5	2.6	3.8	2.6	3.9	2.6	4.0	2.7	4.2	2.7	4.5	2.6
	27.5	3.4	2.5	3.5	2.5	3.7	2.5	3.8	2.6	3.9	2.7	4.2	2.6	4.4	2.6
	30.0	3.3	2.4	3.4	2.5	3.6	2.5	3.7	2.5	3.9	2.6	4.1	2.6	4.3	2.5
	32.5	3.3	2.4	3.3	2.5	3.5	2.5	3.7	2.5	3.8	2.6	4.0	2.6	4.2	2.5
	35.0	3.2	2.4	3.3	2.4	3.5	2.4	3.6	2.5	3.7	2.6	3.9	2.5	4.2	2.5
	37.5	3.2	2.4	3.2	2.4	3.4	2.4	3.5	2.4	3.6	2.5	3.9	2.5	4.1	2.5
	40.0	3.1	2.3	3.1	2.4	3.3	2.4	3.4	2.4	3.9	2.6	3.8	2.5	4.0	2.4
	43.0	3.0	2.3	3.0	2.3	3.2	2.3	3.3	2.4	3.4	2.4	3.7	2.4	3.9	2.4
40 (4.5)	20.0	4.4	3.0	4.5	3.1	4.9	3.1	5.0	3.1	5.2	3.2	5.5	3.2	5.9	3.1
	22.5	4.3	3.0	4.5	3.1	4.8	3.0	5.0	3.1	5.1	3.2	5.4	3.1	5.7	3.1
	25.0	4.3	3.0	4.4	3.0	4.7	3.0	4.9	3.0	5.0	3.1	5.3	3.1	5.6	3.0
	27.5	4.2	2.9	4.3	3.0	4.6	2.9	4.8	3.0	4.9	3.1	5.2	3.0	5.5	3.0
	30.0	4.1	2.9	4.2	2.9	4.5	2.9	4.7	2.9	4.8	3.0	5.1	3.0	5.4	2.9
	32.5	4.1	2.8	4.2	2.9	4.4	2.9	4.6	2.9	4.7	3.0	5.0	2.9	5.3	2.9
	35.0	4.0	2.8	4.1	2.8	4.3	2.8	4.5	2.8	4.6	2.9	4.9	2.9	5.2	2.9
	37.5	4.0	2.8	4.0	2.8	4.3	2.8	4.4	2.8	4.5	2.9	4.8	2.9	5.1	2.8
	40.0	3.9	2.7	3.9	2.7	4.2	2.7	4.3	2.8	4.9	3.1	4.7	2.8	5.0	2.8
	43.0	3.8	2.7	3.8	2.7	4.1	2.7	4.2	2.7	4.3	2.8	4.6	2.8	4.8	2.7
50 (5.6)	20.0	5.4	3.8	5.6	3.9	6.0	3.9	6.3	3.9	6.5	4.0	6.9	4.0	7.3	3.9
	22.5	5.4	3.7	5.6	3.8	6.0	3.8	6.2	3.9	6.4	4.0	6.7	3.9	7.1	3.9
	25.0	5.3	3.7	5.5	3.8	5.9	3.8	6.0	3.8	6.2	3.9	6.6	3.9	7.0	3.8
	27.5	5.2	3.7	5.4	3.7	5.7	3.7	5.9	3.8	6.1	3.9	6.5	3.8	6.9	3.8
	30.0	5.2	3.6	5.3	3.7	5.6	3.7	5.8	3.7	6.0	3.8	6.4	3.8	6.7	3.7
	32.5	5.1	3.6	5.2	3.6	5.5	3.6	5.7	3.6	5.9	3.8	6.2	3.7	6.6	3.7
	35.0	5.0	3.5	5.1	3.6	5.4	3.5	5.6	3.6	5.8	3.7	6.1	3.7	6.5	3.6
	37.5	4.9	3.5	5.0	3.5	5.3	3.5	5.5	3.5	5.7	3.7	6.0	3.6	6.3	3.6
	40.0	4.8	3.4	4.8	3.5	5.2	3.4	5.3	3.5	6.1	3.9	5.9	3.6	6.2	3.5
	43.0	4.7	3.4	4.7	3.4	5.0	3.4	5.2	3.4	5.3	3.5	5.7	3.5	6.0	3.4
63 (7.1)	20.0	6.9	4.9	7.1	5.0	7.7	5.0	8.0	5.1	8.2	5.2	8.7	5.2	9.2	5.1
	22.5	6.9	4.8	7.1	5.0	7.6	4.9	7.8	5.0	8.1	5.2	8.5	5.1	9.1	5.0
	25.0	6.8	4.8	7.0	4.9	7.4	4.9	7.7	4.9	7.9	5.1	8.4	5.0	8.9	5.0
	27.5	6.6	4.7	6.8	4.8	7.3	4.8	7.5	4.9	7.8	5.0	8.2	5.0	8.7	4.9
	30.0	6.5	4.7	6.7	4.8	7.1	4.7	7.4	4.8	7.6	5.0	8.1	4.9	8.5	4.8
	32.5	6.4	4.6	6.6	4.7	7.0	4.7	7.2	4.7	7.5	4.9	7.9	4.8	8.4	4.8
	35.0	6.3	4.6	6.4	4.6	6.8	4.6	7.1	4.7	7.3	4.8	7.7	4.8	8.2	4.7
	37.5	6.2	4.5	6.3	4.6	6.7	4.5	6.9	4.6	7.2	4.8	7.6	4.7	8.0	4.6
	40.0	6.1	4.5	6.1	4.5	6.6	4.5	6.8	4.5	7.7	5.0	7.4	4.6	7.8	4.6
	43.0	6.0	4.4	6.0	4.4	6.4	4.4	6.6	4.5	6.8	4.6	7.2	4.6	7.6	4.5
80 (9.0)	20.0	8.7	6.1	9.0	6.3	9.7	6.3	10.1	6.4	10.4	6.6	11.0	6.5	11.7	6.5
	22.5	8.7	6.1	9.0	6.3	9.6	6.3	9.9	6.3	10.2	6.6	10.8	6.5	11.5	6.4
	25.0	8.6	6.1	8.8	6.2	9.4	6.2	9.7	6.2	10.0	6.5	10.6	6.4	11.3	6.3
	27.5	8.4	6.0	8.6	6.1	9.2	6.1	9.5	6.2	9.8	6.4	10.4	6.3	11.0	6.2
	30.0	8.3	5.9	8.5	6.0	9.0	6.0	9.4	6.1	9.6	6.3	10.3	6.2	10.8	6.1
	32.5	8.1	5.8	8.3	6.0	8.9	5.9	9.2	6.0	9.5	6.2	10.0	6.1	10.6	6.0
	35.0	8.0	5.8	8.1	5.9	8.6	5.8	9.0	5.9	9.3	6.1	9.8	6.0	10.4	5.9
	37.5	7.9	5.7	8.0	5.8	8.5	5.7	8.8	5.8	9.1	6.1	9.6	6.0	10.2	5.9
	40.0	7.8	5.7	7.8	5.7	8.3	5.7	8.6	5.7	9.8	6.4	9.4	5.9	9.9	5.8
	43.0	7.6	5.5	7.6	5.6	8.1	5.6	8.4	5.6	8.6	5.8	9.1	5.8	9.7	5.7

Cooling capacity in combination with PUHY,PUY,PURY-P300,350,400YGM

PLFY-P-VLMD-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
100 (11.2)	20.0	10.9	7.8	11.3	8.0	12.1	8.0	12.5	8.1	12.9	8.4	13.7	8.3	14.6	8.2
	22.5	10.8	7.8	11.2	8.0	11.9	7.9	12.3	8.0	12.7	8.3	13.5	8.2	14.3	8.1
	25.0	10.7	7.7	11.0	7.9	11.7	7.8	12.1	7.9	12.5	8.2	13.2	8.1	14.0	8.0
	27.5	10.5	7.6	10.8	7.8	11.5	7.7	11.9	7.8	12.2	8.1	13.0	8.0	13.7	7.9
	30.0	10.3	7.5	10.5	7.7	11.3	7.6	11.6	7.7	12.0	8.0	12.8	7.9	13.4	7.8
	32.5	10.1	7.4	10.4	7.6	11.0	7.5	11.4	7.6	11.8	7.9	12.4	7.8	13.2	7.7
	35.0	10.0	7.3	10.1	7.5	10.8	7.4	11.2	7.6	11.5	7.8	12.2	7.7	12.9	7.6
	37.5	9.9	7.3	9.9	7.4	10.6	7.3	10.9	7.4	11.3	7.7	12.0	7.6	12.7	7.5
	40.0	9.7	7.2	9.7	7.3	10.4	7.2	10.7	7.3	12.2	8.1	11.7	7.5	12.4	7.4
	43.0	9.4	7.1	9.4	7.1	10.1	7.1	10.4	7.2	10.7	7.5	11.4	7.4	12.0	7.3
125 (14.0)	20.0	13.6	9.9	14.1	10.2	15.1	10.2	15.7	10.4	16.2	10.7	17.2	10.6	18.2	10.4
	22.5	13.5	9.9	14.0	10.2	14.9	10.1	15.4	10.2	15.9	10.6	16.8	10.5	17.9	10.3
	25.0	13.4	9.8	13.7	10.0	14.6	10.0	15.1	10.1	15.6	10.5	16.5	10.3	17.5	10.2
	27.5	13.1	9.7	13.4	9.9	14.4	9.8	14.8	10.0	15.3	10.4	16.2	10.2	17.2	10.1
	30.0	12.9	9.5	13.2	9.8	14.1	9.7	14.6	9.9	15.0	10.2	16.0	10.1	16.8	9.9
	32.5	12.7	9.4	13.0	9.7	13.8	9.6	14.3	9.8	14.7	10.1	15.5	10.0	16.5	9.8
	35.0	12.5	9.3	12.7	9.5	13.4	9.4	14.0	9.6	14.4	10.0	15.3	9.9	16.2	9.7
	37.5	12.3	9.3	12.4	9.4	13.2	9.3	13.7	9.5	14.1	9.9	15.0	9.7	15.8	9.6
	40.0	12.1	9.2	12.1	9.3	13.0	9.2	13.4	9.4	15.2	10.3	14.6	9.6	15.5	9.4
	43.0	11.8	9.0	11.8	9.1	12.6	9.1	13.0	9.2	13.4	9.6	14.2	9.4	15.1	9.3

2.2b. Heating capacity in combination with PUHY,PUY,PURY-P300,350,400YGM

PLFY-P-VLMD-E

SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
20 (2.2)	-20.0	1.3	1.3	1.3	1.2
	-15.0	1.5	1.5	1.5	1.5
	-10.0	1.8	1.8	1.7	1.6
	-5.0	2.0	2.0	1.9	1.6
	0.0	2.3	2.3	1.9	1.6
	2.5	2.4	2.4	1.9	1.6
	6.0	2.6	2.5	1.9	1.6
	7.5	2.7	2.5	1.9	1.6
	10.0	2.8	2.5	1.9	1.6
	12.5	2.9	2.5	1.9	1.6
	15.5	2.9	2.5	1.9	1.6
25 (2.8)	-20.0	1.7	1.6	1.6	1.5
	-15.0	1.9	1.9	1.9	1.9
	-10.0	2.2	2.2	2.2	2.0
	-5.0	2.6	2.6	2.4	2.0
	0.0	2.9	2.9	2.4	2.0
	2.5	3.1	3.0	2.4	2.0
	6.0	3.3	3.2	2.4	2.0
	7.5	3.4	3.2	2.4	2.0
	10.0	3.5	3.2	2.4	2.0
	12.5	3.7	3.2	2.4	2.0
	15.5	3.7	3.2	2.4	2.0
32 (3.6)	-20.0	2.1	2.0	2.0	1.9
	-15.0	2.4	2.4	2.4	2.3
	-10.0	2.8	2.8	2.7	2.6
	-5.0	3.2	3.2	3.0	2.6
	0.0	3.6	3.6	3.0	2.6
	2.5	3.8	3.8	3.0	2.6
	6.0	4.1	4.0	3.0	2.6
	7.5	4.2	4.0	3.0	2.6
	10.0	4.4	4.0	3.0	2.6
	12.5	4.6	4.0	3.0	2.6
	15.5	4.6	4.0	3.0	2.6
40 (4.5)	-20.0	2.6	2.5	2.5	2.4
	-15.0	3.0	3.0	3.0	2.9
	-10.0	3.5	3.5	3.4	3.2
	-5.0	4.0	4.0	3.8	3.2
	0.0	4.5	4.5	3.8	3.2
	2.5	4.8	4.7	3.8	3.2
	6.0	5.1	5.0	3.8	3.2
	7.5	5.3	5.0	3.8	3.2
	10.0	5.5	5.0	3.8	3.2
	12.5	5.8	5.0	3.8	3.2
	15.5	5.8	5.0	3.8	3.2
50 (5.6)	-20.0	3.3	3.2	3.2	3.0
	-15.0	3.8	3.8	3.8	3.7
	-10.0	4.4	4.4	4.3	4.0
	-5.0	5.0	5.0	4.7	4.0
	0.0	5.7	5.7	4.7	4.0
	2.5	6.0	6.0	4.7	4.0
	6.0	6.5	6.3	4.7	4.0
	7.5	6.7	6.3	4.7	4.0
	10.0	7.0	6.3	4.7	4.0
	12.5	7.2	6.3	4.7	4.0
	15.5	7.2	6.3	4.7	4.0
63 (7.1)	-20.0	4.2	4.0	4.0	3.8
	-15.0	4.8	4.8	4.8	4.6
	-10.0	5.6	5.6	5.5	5.1
	-5.0	6.4	6.4	6.0	5.1
	0.0	7.2	7.2	6.0	5.1
	2.5	7.6	7.6	6.0	5.1
	6.0	8.2	8.0	6.0	5.1
	7.5	8.5	8.0	6.0	5.1
	10.0	8.8	8.0	6.0	5.1
	12.5	9.2	8.0	6.0	5.1
	15.5	9.2	8.0	6.0	5.1
80 (9.0)	-20.0	5.2	5.0	5.0	4.8
	-15.0	6.0	6.0	6.0	5.8
	-10.0	7.0	7.0	6.9	6.4
	-5.0	8.0	8.0	7.5	6.4
	0.0	9.0	9.0	7.5	6.4
	2.5	9.6	9.5	7.5	6.4
	6.0	10.3	10.0	7.5	6.4
	7.5	10.6	10.0	7.5	6.4
	10.0	11.1	10.0	7.5	6.4
	12.5	11.5	10.0	7.5	6.4
	15.5	11.5	10.0	7.5	6.4

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
100 (11.2)	-20.0	6.5	6.3	6.3	6.0
	-15.0	7.5	7.5	7.5	7.3
	-10.0	8.8	8.8	8.6	8.0
	-5.0	10.0	10.0	9.4	8.0
	0.0	11.3	11.3	9.4	8.0
	2.5	11.9	11.8	9.4	8.0
	6.0	12.8	12.5	9.4	8.0
	7.5	13.3	12.5	9.4	8.0
	10.0	13.8	12.5	9.4	8.0
	12.5	14.4	12.5	9.4	8.0
	15.5	14.4	12.5	9.4	8.0
125 (14.0)	-20.0	8.3	8.0	8.0	7.7
	-15.0	9.6	9.6	9.6	9.3
	-10.0	11.2	11.2	11.0	10.2
	-5.0	12.8	12.8	12.0	10.2
	0.0	14.4	14.4	12.0	10.2
	2.5	15.3	15.1	12.0	10.2
	6.0	16.4	16.0	12.0	10.2
	7.5	17.0	16.0	12.0	10.2
	10.0	17.7	16.0	12.0	10.2
	12.5	18.4	16.0	12.0	10.2
	15.5	18.4	16.0	12.0	10.2

2.3a. Cooling capacity in combination with PUHY,PURY-P450,500,550,600,650YGM

PLFY-P-VLMD-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.7	2.1	1.8	2.3	1.8	2.4	1.8	2.5	1.9	2.6	1.9	2.8	1.8
	22.5	2.1	1.7	2.1	1.8	2.3	1.8	2.3	1.8	2.4	1.9	2.6	1.9	2.7	1.8
	25.0	2.0	1.7	2.1	1.8	2.2	1.7	2.3	1.8	2.4	1.9	2.6	1.8	2.7	1.8
	27.5	2.0	1.7	2.1	1.7	2.2	1.7	2.3	1.8	2.4	1.9	2.5	1.8	2.6	1.8
	30.0	2.0	1.7	2.0	1.7	2.2	1.7	2.3	1.8	2.4	1.8	2.5	1.8	2.7	1.8
	32.5	2.0	1.7	2.0	1.7	2.2	1.7	2.2	1.8	2.3	1.8	2.5	1.8	2.6	1.8
	35.0	2.0	1.7	2.0	1.7	2.1	1.7	2.2	1.7	2.3	1.8	2.5	1.8	2.6	1.8
	37.5	1.9	1.7	2.0	1.7	2.1	1.7	2.2	1.7	2.3	1.8	2.4	1.8	2.6	1.8
	40.0	1.9	1.6	1.9	1.7	2.1	1.7	2.1	1.7	2.2	1.8	2.4	1.8	2.6	1.8
	43.0	1.9	1.6	1.9	1.7	2.1	1.7	2.1	1.7	2.2	1.8	2.4	1.8	2.6	1.8
25 (2.8)	20.0	2.6	2.0	2.7	2.1	2.9	2.0	3.0	2.1	3.1	2.2	3.3	2.1	3.5	2.1
	22.5	2.6	2.0	2.7	2.0	2.9	2.0	3.0	2.1	3.1	2.1	3.3	2.1	3.5	2.1
	25.0	2.6	2.0	2.7	2.0	2.9	2.0	2.9	2.0	3.1	2.1	3.2	2.1	3.5	2.1
	27.5	2.6	2.0	2.6	2.0	2.8	2.0	2.9	2.0	3.0	2.1	3.2	2.1	3.4	2.0
	30.0	2.5	1.9	2.6	2.0	2.8	2.0	2.9	2.0	3.0	2.1	3.2	2.1	3.4	2.1
	32.5	2.5	1.9	2.6	2.0	2.7	2.0	2.8	2.0	3.0	2.1	3.2	2.1	3.4	2.0
	35.0	2.5	1.9	2.5	2.0	2.7	2.0	2.8	2.0	2.9	2.1	3.1	2.1	3.3	2.0
	37.5	2.5	1.9	2.5	1.9	2.7	1.9	2.8	2.0	2.9	2.1	3.1	2.0	3.3	2.0
	40.0	2.4	1.9	2.5	1.9	2.7	1.9	2.7	1.9	2.9	2.0	3.1	2.0	3.3	2.0
	43.0	2.4	1.9	2.5	1.9	2.6	1.9	2.7	1.9	2.8	2.0	3.0	2.0	3.2	2.0
32 (3.6)	20.0	3.4	2.5	3.5	2.6	3.7	2.5	3.9	2.6	4.0	2.7	4.2	2.7	4.5	2.6
	22.5	3.4	2.5	3.5	2.5	3.7	2.5	3.8	2.6	4.0	2.7	4.2	2.6	4.5	2.6
	25.0	3.3	2.5	3.4	2.5	3.7	2.5	3.8	2.5	3.9	2.7	4.2	2.6	4.4	2.6
	27.5	3.3	2.4	3.4	2.5	3.6	2.5	3.7	2.5	3.9	2.6	4.1	2.6	4.3	2.5
	30.0	3.3	2.4	3.3	2.5	3.6	2.5	3.7	2.5	3.9	2.6	4.1	2.6	4.4	2.6
	32.5	3.2	2.4	3.3	2.5	3.5	2.4	3.6	2.5	3.8	2.6	4.1	2.6	4.3	2.5
	35.0	3.2	2.4	3.3	2.4	3.5	2.4	3.6	2.5	3.7	2.6	4.0	2.6	4.3	2.5
	37.5	3.2	2.4	3.2	2.4	3.5	2.4	3.5	2.4	3.7	2.6	4.0	2.5	4.2	2.5
	40.0	3.1	2.3	3.2	2.4	3.4	2.4	3.5	2.4	3.7	2.5	4.0	2.5	4.2	2.5
	43.0	3.1	2.3	3.2	2.4	3.4	2.4	3.5	2.4	3.6	2.5	3.9	2.5	4.2	2.5
40 (4.5)	20.0	4.3	2.9	4.4	3.0	4.7	3.0	4.8	3.0	5.0	3.1	5.3	3.1	5.7	3.0
	22.5	4.2	2.9	4.3	3.0	4.6	3.0	4.8	3.0	5.0	3.1	5.3	3.1	5.6	3.0
	25.0	4.2	2.9	4.3	2.9	4.6	2.9	4.7	3.0	4.9	3.1	5.2	3.0	5.6	3.0
	27.5	4.1	2.9	4.2	2.9	4.5	2.9	4.7	2.9	4.9	3.1	5.2	3.0	5.4	2.9
	30.0	4.1	2.8	4.2	2.9	4.5	2.9	4.6	2.9	4.8	3.0	5.1	3.0	5.4	3.0
	32.5	4.1	2.8	4.1	2.9	4.4	2.8	4.5	2.9	4.8	3.0	5.1	3.0	5.4	2.9
	35.0	4.0	2.8	4.1	2.8	4.4	2.8	4.5	2.8	4.7	3.0	5.0	3.0	5.4	2.9
	37.5	4.0	2.8	4.0	2.8	4.3	2.8	4.4	2.8	4.7	3.0	5.0	2.9	5.3	2.9
	40.0	3.9	2.7	4.0	2.8	4.3	2.8	4.4	2.8	4.6	2.9	5.0	2.9	5.3	2.9
	43.0	3.9	2.7	3.9	2.8	4.2	2.8	4.3	2.8	4.5	2.9	4.9	2.9	5.2	2.9
50 (5.6)	20.0	5.3	3.7	5.5	3.8	5.8	3.8	6.0	3.8	6.2	3.9	6.6	3.9	7.1	3.8
	22.5	5.3	3.7	5.4	3.7	5.8	3.7	5.9	3.8	6.2	3.9	6.6	3.9	7.0	3.8
	25.0	5.2	3.6	5.3	3.7	5.7	3.7	5.9	3.7	6.1	3.9	6.5	3.8	6.9	3.8
	27.5	5.2	3.6	5.3	3.7	5.7	3.7	5.8	3.7	6.0	3.8	6.4	3.8	6.7	3.7
	30.0	5.1	3.6	5.2	3.6	5.6	3.6	5.8	3.7	6.0	3.8	6.4	3.8	6.8	3.7
	32.5	5.0	3.5	5.2	3.6	5.5	3.6	5.7	3.6	5.9	3.8	6.3	3.8	6.7	3.7
	35.0	5.0	3.5	5.1	3.6	5.5	3.6	5.6	3.6	5.8	3.7	6.3	3.7	6.7	3.7
	37.5	4.9	3.5	5.0	3.5	5.4	3.5	5.5	3.6	5.8	3.7	6.2	3.7	6.6	3.7
	40.0	4.8	3.4	5.0	3.5	5.3	3.5	5.4	3.5	5.7	3.7	6.2	3.7	6.6	3.6
	43.0	4.8	3.4	4.9	3.5	5.3	3.5	5.4	3.5	5.7	3.7	6.0	3.6	6.5	3.6
63 (7.1)	20.0	6.7	4.8	6.9	4.9	7.4	4.9	7.6	4.9	7.9	5.1	8.4	5.0	8.9	5.0
	22.5	6.7	4.7	6.9	4.8	7.3	4.8	7.5	4.9	7.8	5.1	8.3	5.0	8.8	4.9
	25.0	6.6	4.7	6.8	4.8	7.2	4.8	7.5	4.8	7.7	5.0	8.2	5.0	8.8	4.9
	27.5	6.5	4.7	6.7	4.8	7.2	4.8	7.4	4.8	7.7	5.0	8.2	4.9	8.5	4.8
	30.0	6.5	4.6	6.6	4.7	7.1	4.7	7.3	4.8	7.6	5.0	8.1	4.9	8.6	4.8
	32.5	6.4	4.6	6.5	4.7	7.0	4.7	7.2	4.7	7.5	4.9	8.0	4.9	8.5	4.8
	35.0	6.3	4.6	6.4	4.6	6.9	4.6	7.1	4.7	7.4	4.9	8.0	4.9	8.4	4.8
	37.5	6.2	4.5	6.4	4.6	6.8	4.6	7.0	4.6	7.3	4.9	7.8	4.8	8.4	4.8
	40.0	6.1	4.5	6.3	4.6	6.8	4.6	6.9	4.6	7.2	4.8	7.8	4.8	8.3	4.7
	43.0	6.1	4.4	6.2	4.5	6.7	4.5	6.8	4.5	7.2	4.8	7.7	4.7	8.2	4.7
80 (9.0)	20.0	8.5	6.0	8.8	6.2	9.4	6.2	9.6	6.2	10.0	6.5	10.6	6.4	11.3	6.3
	22.5	8.5	6.0	8.7	6.1	9.3	6.1	9.5	6.2	9.9	6.4	10.6	6.4	11.2	6.3
	25.0	8.4	6.0	8.6	6.1	9.2	6.1	9.5	6.1	9.8	6.4	10.4	6.3	11.1	6.2
	27.5	8.3	5.9	8.5	6.0	9.1	6.0	9.4	6.1	9.7	6.3	10.4	6.3	10.8	6.1
	30.0	8.2	5.9	8.4	6.0	9.0	6.0	9.3	6.0	9.6	6.3	10.3	6.2	10.9	6.1
	32.5	8.1	5.8	8.3	5.9	8.8	5.9	9.1	6.0	9.5	6.3	10.2	6.2	10.8	6.1
	35.0	8.0	5.8	8.1	5.9	8.8	5.9	9.0	5.9	9.4	6.2	10.1	6.2	10.7	6.1
	37.5	7.9	5.7	8.1	5.8	8.6	5.8	8.9	5.9	9.3	6.2	9.9	6.1	10.6	6.0
	40.0	7.8	5.7	8.0	5.8	8.6	5.8	8.7	5.8	9.2	6.1	9.9	6.1	10.5	6.0
	43.0	7.7	5.6	7.9	5.7	8.5	5.7	8.6	5.8	9.1	6.1	9.7	6.0	10.4	6.0

Cooling capacity in combination with PUHY,PURY-P450,500,550,600,650YGM

PLFY-P-VLMD-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
100 (11.2)	20.0	10.6	7.7	10.9	7.9	11.6	7.8	12.0	7.9	12.5	8.2	13.2	8.1	14.1	8.0
	22.5	10.5	7.6	10.8	7.8	11.5	7.8	11.9	7.8	12.3	8.2	13.2	8.1	13.9	8.0
	25.0	10.4	7.6	10.7	7.8	11.4	7.7	11.8	7.8	12.2	8.1	13.0	8.0	13.8	7.9
	27.5	10.3	7.5	10.5	7.7	11.3	7.7	11.6	7.7	12.1	8.1	12.9	8.0	13.4	7.8
	30.0	10.2	7.5	10.4	7.6	11.2	7.6	11.5	7.7	12.0	8.0	12.8	7.9	13.6	7.8
	32.5	10.1	7.4	10.3	7.6	11.0	7.5	11.3	7.6	11.9	8.0	12.7	7.9	13.4	7.8
	35.0	10.0	7.3	10.1	7.5	10.9	7.5	11.2	7.6	11.6	7.9	12.5	7.9	13.3	7.7
	37.5	9.9	7.3	10.0	7.4	10.8	7.4	11.0	7.5	11.6	7.9	12.4	7.8	13.2	7.7
	40.0	9.7	7.2	9.9	7.4	10.7	7.4	10.9	7.4	11.4	7.8	12.3	7.8	13.1	7.7
	43.0	9.6	7.2	9.8	7.3	10.5	7.3	10.8	7.4	11.3	7.7	12.1	7.7	13.0	7.6
125 (14.0)	20.0	13.2	9.7	13.7	10.0	14.6	9.9	15.0	10.1	15.6	10.5	16.5	10.3	17.6	10.2
	22.5	13.2	9.7	13.5	9.9	14.4	9.9	14.8	10.0	15.4	10.4	16.5	10.3	17.4	10.2
	25.0	13.0	9.6	13.4	9.9	14.3	9.8	14.7	9.9	15.3	10.4	16.2	10.2	17.3	10.1
	27.5	12.9	9.5	13.2	9.8	14.1	9.7	14.6	9.9	15.1	10.3	16.1	10.2	16.8	9.9
	30.0	12.7	9.5	13.0	9.7	14.0	9.7	14.4	9.8	15.0	10.2	16.0	10.1	16.9	10.0
	32.5	12.6	9.4	12.9	9.6	13.7	9.6	14.1	9.7	14.8	10.2	15.8	10.1	16.8	9.9
	35.0	12.5	9.3	12.7	9.5	13.7	9.5	14.0	9.6	14.6	10.1	15.7	10.0	16.7	9.9
	37.5	12.3	9.3	12.6	9.5	13.4	9.4	13.8	9.5	14.5	10.0	15.5	9.9	16.5	9.8
	40.0	12.1	9.2	12.4	9.4	13.4	9.4	13.6	9.5	14.3	9.9	15.4	9.9	16.4	9.8
	43.0	12.0	9.1	12.3	9.3	13.2	9.3	13.4	9.4	14.1	9.9	15.1	9.8	16.2	9.7

2.3b. Heating capacity in combination with PUHY,PURY-P450,500,550,600,650YGM

PLFY-P-VLMD-E

SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
20 (2.2)	-20.0	1.3	1.3	1.3	1.3
	-15.0	1.6	1.5	1.5	1.5
	-10.0	1.8	1.8	1.7	1.7
	-5.0	2.1	2.0	1.9	1.8
	0.0	2.3	2.3	2.0	1.8
	2.5	2.4	2.4	2.0	1.8
	6.0	2.6	2.5	2.0	1.8
	7.5	2.7	2.5	2.0	1.8
	10.0	2.8	2.5	2.0	1.8
	12.5	2.9	2.5	2.0	1.8
	15.5	2.9	2.5	2.0	1.8
25 (2.8)	-20.0	1.7	1.6	1.6	1.6
	-15.0	2.0	1.9	1.9	1.9
	-10.0	2.3	2.2	2.2	2.1
	-5.0	2.6	2.6	2.5	2.3
	0.0	2.9	2.9	2.5	2.3
	2.5	3.1	3.0	2.5	2.3
	6.0	3.3	3.2	2.5	2.3
	7.5	3.4	3.2	2.5	2.3
	10.0	3.6	3.2	2.5	2.3
	12.5	3.7	3.2	2.5	2.3
	15.5	3.7	3.2	2.5	2.3
32 (3.6)	-20.0	2.1	2.0	2.0	2.0
	-15.0	2.5	2.4	2.4	2.3
	-10.0	2.9	2.8	2.7	2.6
	-5.0	3.3	3.2	3.1	2.8
	0.0	3.7	3.6	3.2	2.8
	2.5	3.8	3.8	3.2	2.8
	6.0	4.1	4.0	3.2	2.8
	7.5	4.2	4.0	3.2	2.8
	10.0	4.4	4.0	3.2	2.8
	12.5	4.6	4.0	3.2	2.8
	15.5	4.6	4.0	3.2	2.8
40 (4.5)	-20.0	2.7	2.6	2.6	2.5
	-15.0	3.1	3.0	3.0	2.9
	-10.0	3.6	3.5	3.4	3.3
	-5.0	4.1	4.0	3.9	3.5
	0.0	4.6	4.5	4.0	3.5
	2.5	4.8	4.8	4.0	3.5
	6.0	5.2	5.0	4.0	3.5
	7.5	5.3	5.0	4.0	3.5
	10.0	5.6	5.0	4.0	3.5
	12.5	5.8	5.0	4.0	3.5
	15.5	5.8	5.0	4.0	3.5
50 (5.6)	-20.0	3.3	3.2	3.2	3.2
	-15.0	3.9	3.8	3.8	3.7
	-10.0	4.5	4.4	4.3	4.2
	-5.0	5.2	5.0	4.9	4.4
	0.0	5.8	5.7	5.0	4.4
	2.5	6.0	6.0	5.0	4.4
	6.0	6.5	6.3	5.0	4.4
	7.5	6.7	6.3	5.0	4.4
	10.0	7.0	6.3	5.0	4.4
	12.5	7.3	6.3	5.0	4.4
	15.5	7.3	6.3	5.0	4.4
63 (7.1)	-20.0	4.2	4.1	4.1	4.0
	-15.0	5.0	4.8	4.8	4.6
	-10.0	5.8	5.6	5.4	5.3
	-5.0	6.6	6.4	6.2	5.6
	0.0	7.4	7.2	6.4	5.6
	2.5	7.7	7.6	6.4	5.6
	6.0	8.2	8.0	6.4	5.6
	7.5	8.5	8.0	6.4	5.6
	10.0	8.9	8.0	6.4	5.6
	12.5	9.3	8.0	6.4	5.6
	15.5	9.3	8.0	6.4	5.6
80 (9.0)	-20.0	5.3	5.1	5.1	5.0
	-15.0	6.3	6.1	6.0	5.8
	-10.0	7.2	7.0	6.8	6.6
	-5.0	8.2	8.0	7.7	7.1
	0.0	9.2	9.0	8.0	7.1
	2.5	9.6	9.5	8.0	7.1
	6.0	10.3	10.0	8.0	7.1
	7.5	10.6	10.0	8.0	7.1
	10.0	11.1	10.0	8.0	7.1
	12.5	11.6	10.0	8.0	7.1
	15.5	11.6	10.0	8.0	7.1

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
100 (11.2)	-20.0	6.6	6.4	6.4	6.3
	-15.0	7.8	7.6	7.5	7.3
	-10.0	9.0	8.8	8.5	8.3
	-5.0	10.3	10.0	9.6	8.8
	0.0	11.5	11.3	9.9	8.8
	2.5	12.0	11.9	9.9	8.8
	6.0	12.9	12.5	9.9	8.8
	7.5	13.3	12.5	9.9	8.8
	10.0	13.9	12.5	9.9	8.8
	12.5	14.5	12.5	9.9	8.8
	15.5	14.5	12.5	9.9	8.8
125 (14.0)	-20.0	8.5	8.2	8.2	8.0
	-15.0	10.0	9.7	9.6	9.3
	-10.0	11.5	11.2	10.9	10.6
	-5.0	13.1	12.8	12.3	11.3
	0.0	14.7	14.4	12.7	11.3
	2.5	15.4	15.2	12.7	11.3
	6.0	16.5	16.0	12.7	11.3
	7.5	17.0	16.0	12.7	11.3
	10.0	17.8	16.0	12.7	11.3
	12.5	18.6	16.0	12.7	11.3
	15.5	18.6	16.0	12.7	11.3

2.4a. Cooling capacity in combination with PUHY-P700,750,800YSGM

PLFY-P-VLMD-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.7	2.2	1.8	2.4	1.8	2.4	1.8	2.5	1.9	2.7	1.9	2.9	1.9
	22.5	2.1	1.7	2.2	1.8	2.3	1.8	2.4	1.8	2.5	1.9	2.7	1.9	2.8	1.9
	25.0	2.1	1.7	2.1	1.8	2.3	1.8	2.4	1.8	2.4	1.9	2.6	1.9	2.8	1.8
	27.5	2.0	1.7	2.1	1.8	2.2	1.7	2.3	1.8	2.4	1.9	2.6	1.9	2.7	1.8
	30.0	2.0	1.7	2.1	1.7	2.2	1.7	2.3	1.8	2.4	1.8	2.5	1.8	2.7	1.8
	32.5	1.9	1.7	2.0	1.7	2.2	1.7	2.2	1.8	2.3	1.8	2.5	1.8	2.6	1.8
	35.0	1.9	1.6	2.0	1.7	2.1	1.7	2.2	1.7	2.3	1.8	2.4	1.8	2.6	1.8
	37.5	1.9	1.6	2.0	1.7	2.1	1.7	2.2	1.7	2.2	1.8	2.4	1.8	2.5	1.8
	40.0	1.8	1.6	1.9	1.7	2.0	1.7	2.1	1.7	2.2	1.8	2.3	1.8	2.5	1.7
	43.0	1.8	1.6	1.8	1.6	2.0	1.6	2.1	1.7	2.1	1.8	2.3	1.7	2.4	1.7
25 (2.8)	20.0	2.7	2.0	2.8	2.1	3.0	2.1	3.1	2.1	3.2	2.2	3.4	2.2	3.7	2.2
	22.5	2.7	2.0	2.8	2.1	3.0	2.1	3.1	2.1	3.2	2.2	3.4	2.2	3.6	2.1
	25.0	2.6	2.0	2.7	2.0	2.9	2.0	3.0	2.1	3.1	2.2	3.3	2.1	3.5	2.1
	27.5	2.6	2.0	2.7	2.0	2.9	2.0	3.0	2.0	3.1	2.1	3.3	2.1	3.5	2.1
	30.0	2.5	1.9	2.6	2.0	2.8	2.0	2.9	2.0	3.0	2.1	3.2	2.1	3.4	2.1
	32.5	2.5	1.9	2.6	2.0	2.7	2.0	2.8	2.0	2.9	2.1	3.1	2.1	3.3	2.0
	35.0	2.4	1.9	2.5	2.0	2.7	1.9	2.8	2.0	2.9	2.1	3.1	2.0	3.3	2.0
	37.5	2.4	1.9	2.5	1.9	2.6	1.9	2.7	2.0	2.8	2.0	3.0	2.0	3.2	2.0
	40.0	2.4	1.8	2.4	1.9	2.6	1.9	2.7	1.9	2.8	2.0	3.0	2.0	3.2	2.0
	43.0	2.3	1.8	2.4	1.9	2.5	1.9	2.6	1.9	2.7	2.0	2.9	2.0	3.1	1.9
32 (3.6)	20.0	3.5	2.5	3.6	2.6	3.9	2.6	4.0	2.6	4.1	2.7	4.4	2.7	4.7	2.7
	22.5	3.4	2.5	3.5	2.6	3.8	2.6	3.9	2.6	4.1	2.7	4.4	2.7	4.6	2.6
	25.0	3.4	2.5	3.5	2.6	3.7	2.5	3.9	2.6	4.0	2.7	4.2	2.7	4.5	2.6
	27.5	3.3	2.4	3.4	2.5	3.7	2.5	3.8	2.6	3.9	2.7	4.2	2.6	4.5	2.6
	30.0	3.2	2.4	3.4	2.5	3.6	2.5	3.7	2.5	3.9	2.6	4.1	2.6	4.4	2.6
	32.5	3.2	2.4	3.3	2.5	3.5	2.4	3.7	2.5	3.8	2.6	4.0	2.6	4.3	2.5
	35.0	3.1	2.4	3.2	2.4	3.5	2.4	3.6	2.5	3.7	2.6	4.0	2.5	4.2	2.5
	37.5	3.1	2.3	3.2	2.4	3.4	2.4	3.5	2.4	3.7	2.5	3.9	2.5	4.1	2.5
	40.0	3.0	2.3	3.1	2.4	3.3	2.4	3.5	2.4	3.6	2.5	3.8	2.5	4.1	2.4
	43.0	3.0	2.3	3.0	2.3	3.2	2.3	3.4	2.4	3.5	2.5	3.7	2.4	4.0	2.4
40 (4.5)	20.0	4.3	3.0	4.5	3.1	4.8	3.1	5.0	3.1	5.2	3.2	5.5	3.2	5.9	3.1
	22.5	4.3	2.9	4.4	3.0	4.7	3.0	4.9	3.0	5.1	3.2	5.4	3.1	5.8	3.1
	25.0	4.2	2.9	4.4	3.0	4.7	3.0	4.8	3.0	5.0	3.1	5.3	3.1	5.7	3.0
	27.5	4.1	2.9	4.3	2.9	4.6	2.9	4.7	3.0	4.9	3.1	5.2	3.0	5.6	3.0
	30.0	4.1	2.8	4.2	2.9	4.5	2.9	4.7	2.9	4.8	3.0	5.1	3.0	5.5	3.0
	32.5	4.0	2.8	4.1	2.9	4.4	2.8	4.6	2.9	4.7	3.0	5.0	3.0	5.4	2.9
	35.0	3.9	2.7	4.1	2.8	4.3	2.8	4.5	2.8	4.6	2.9	5.0	2.9	5.3	2.9
	37.5	3.8	2.7	4.0	2.8	4.3	2.8	4.4	2.8	4.6	2.9	4.9	2.9	5.2	2.8
	40.0	3.8	2.7	3.9	2.7	4.2	2.7	4.3	2.8	4.5	2.9	4.8	2.8	5.1	2.8
	43.0	3.7	2.6	3.8	2.7	4.1	2.7	4.2	2.7	4.4	2.8	4.7	2.8	5.0	2.8
50 (5.6)	20.0	5.4	3.7	5.6	3.8	6.0	3.9	6.2	3.9	6.4	4.0	6.9	4.0	7.3	3.9
	22.5	5.3	3.7	5.5	3.8	5.9	3.8	6.1	3.8	6.3	4.0	6.8	4.0	7.2	3.9
	25.0	5.3	3.7	5.4	3.8	5.8	3.8	6.0	3.8	6.2	3.9	6.6	3.9	7.1	3.8
	27.5	5.2	3.6	5.3	3.7	5.7	3.7	5.9	3.7	6.1	3.9	6.5	3.8	6.9	3.8
	30.0	5.0	3.5	5.2	3.7	5.6	3.6	5.8	3.7	6.0	3.8	6.4	3.8	6.8	3.8
	32.5	5.0	3.5	5.1	3.6	5.5	3.6	5.7	3.6	5.9	3.8	6.3	3.7	6.7	3.7
	35.0	4.9	3.5	5.0	3.6	5.4	3.5	5.6	3.6	5.8	3.7	6.2	3.7	6.6	3.6
	37.5	4.8	3.4	5.0	3.5	5.3	3.5	5.5	3.5	5.7	3.7	6.0	3.6	6.4	3.6
	40.0	4.7	3.4	4.8	3.4	5.2	3.4	5.4	3.5	5.6	3.6	5.9	3.6	6.3	3.5
	43.0	4.6	3.3	4.7	3.4	5.0	3.4	5.2	3.4	5.4	3.6	5.8	3.5	6.2	3.5
63 (7.1)	20.0	6.9	4.8	7.1	5.0	7.6	5.0	7.9	5.0	8.2	5.2	8.7	5.2	9.3	5.1
	22.5	6.7	4.8	7.0	4.9	7.5	4.9	7.8	5.0	8.0	5.2	8.6	5.1	9.1	5.0
	25.0	6.7	4.7	6.9	4.9	7.4	4.9	7.6	4.9	7.9	5.1	8.4	5.0	8.9	5.0
	27.5	6.5	4.7	6.7	4.8	7.2	4.8	7.5	4.8	7.7	5.0	8.3	5.0	8.8	4.9
	30.0	6.4	4.6	6.6	4.7	7.1	4.7	7.3	4.8	7.6	5.0	8.1	4.9	8.7	4.9
	32.5	6.3	4.5	6.5	4.7	7.0	4.7	7.2	4.7	7.5	4.9	8.0	4.9	8.5	4.8
	35.0	6.2	4.5	6.4	4.6	6.8	4.6	7.1	4.7	7.3	4.8	7.8	4.8	8.3	4.7
	37.5	6.1	4.4	6.3	4.6	6.7	4.5	7.0	4.6	7.2	4.8	7.7	4.7	8.2	4.7
	40.0	6.0	4.4	6.1	4.5	6.6	4.5	6.8	4.5	7.1	4.7	7.5	4.7	8.0	4.6
	43.0	5.8	4.3	6.0	4.4	6.4	4.4	6.6	4.5	6.9	4.7	7.3	4.6	7.8	4.6
80 (9.0)	20.0	8.7	6.1	9.0	6.3	9.7	6.3	10.0	6.4	10.4	6.6	11.1	6.6	11.7	6.5
	22.5	8.6	6.1	8.9	6.2	9.5	6.2	9.8	6.3	10.2	6.5	10.9	6.5	11.5	6.4
	25.0	8.5	6.0	8.7	6.2	9.4	6.2	9.7	6.2	10.0	6.5	10.6	6.4	11.3	6.3
	27.5	8.3	5.9	8.6	6.1	9.2	6.1	9.5	6.1	9.8	6.4	10.5	6.3	11.2	6.2
	30.0	8.1	5.8	8.4	6.0	9.0	6.0	9.3	6.1	9.6	6.3	10.3	6.2	11.0	6.2
	32.5	8.0	5.7	8.2	5.9	8.8	5.9	9.1	6.0	9.5	6.2	10.1	6.2	10.8	6.1
	35.0	7.8	5.7	8.1	5.8	8.6	5.8	9.0	5.9	9.3	6.1	9.9	6.1	10.5	6.0
	37.5	7.7	5.6	8.0	5.8	8.5	5.7	8.8	5.8	9.1	6.1	9.7	6.0	10.4	5.9
	40.0	7.6	5.5	7.7	5.7	8.3	5.7	8.6	5.8	9.0	6.0	9.5	5.9	10.1	5.8
	43.0	7.4	5.5	7.6	5.6	8.1	5.6	8.4	5.7	8.7	5.9	9.3	5.8	9.9	5.8

Cooling capacity in combination with PUHY-P700,750,800YSGM

PLFY-P-VLMD-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
100 (11.2)	20.0	10.8	7.8	11.2	8.0	12.0	8.0	12.5	8.1	12.9	8.4	13.8	8.3	14.6	8.2
	22.5	10.6	7.7	11.0	7.9	11.8	7.9	12.2	8.0	12.7	8.3	13.6	8.3	14.3	8.1
	25.0	10.5	7.6	10.9	7.8	11.6	7.8	12.0	7.9	12.4	8.2	13.2	8.1	14.1	8.0
	27.5	10.3	7.5	10.6	7.7	11.4	7.7	11.8	7.8	12.2	8.1	13.0	8.1	13.9	7.9
	30.0	10.1	7.4	10.5	7.6	11.2	7.6	11.6	7.7	12.0	8.0	12.8	7.9	13.7	7.9
	32.5	9.9	7.3	10.2	7.5	11.0	7.5	11.4	7.6	11.8	7.9	12.5	7.9	13.4	7.8
	35.0	9.7	7.2	10.1	7.4	10.8	7.4	11.2	7.6	11.5	7.8	12.3	7.8	13.1	7.7
	37.5	9.6	7.1	10.0	7.4	10.6	7.3	11.0	7.5	11.4	7.8	12.1	7.7	12.9	7.6
	40.0	9.4	7.1	9.6	7.2	10.4	7.2	10.8	7.4	11.1	7.7	11.9	7.6	12.6	7.5
	43.0	9.2	6.9	9.4	7.1	10.1	7.1	10.5	7.2	10.9	7.5	11.6	7.5	12.3	7.4
125 (14.0)	20.0	13.5	9.9	14.0	10.2	15.1	10.2	15.6	10.3	16.1	10.7	17.2	10.6	18.3	10.5
	22.5	13.3	9.8	13.8	10.1	14.8	10.0	15.3	10.2	15.8	10.6	16.9	10.5	17.9	10.3
	25.0	13.2	9.7	13.6	10.0	14.6	9.9	15.1	10.1	15.5	10.5	16.5	10.3	17.6	10.2
	27.5	12.9	9.5	13.3	9.8	14.3	9.8	14.8	10.0	15.3	10.4	16.3	10.3	17.4	10.1
	30.0	12.6	9.4	13.1	9.7	14.0	9.7	14.5	9.8	15.0	10.2	16.0	10.1	17.1	10.0
	32.5	12.4	9.3	12.8	9.6	13.7	9.6	14.2	9.7	14.7	10.1	15.7	10.0	16.7	9.9
	35.0	12.2	9.2	12.6	9.5	13.4	9.4	14.0	9.6	14.4	10.0	15.4	9.9	16.4	9.8
	37.5	12.0	9.1	12.5	9.4	13.2	9.3	13.7	9.5	14.2	9.9	15.1	9.8	16.1	9.7
	40.0	11.8	9.0	12.0	9.2	13.0	9.2	13.4	9.4	13.9	9.8	14.8	9.7	15.8	9.5
	43.0	11.5	8.9	11.8	9.1	12.6	9.1	13.1	9.3	13.6	9.6	14.5	9.6	15.4	9.4

2.4b. Heating capacity in combination with PUHY-P700,750,800YSGM

PLFY-P-VLMD-E

SHC:Sensible Heat Capacity(kW)

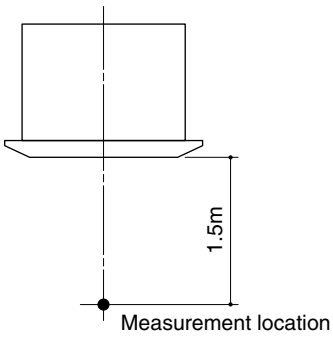
Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
20 (2.2)	-20.0	1.3	1.3	1.3	1.2
	-15.0	1.5	1.5	1.5	1.5
	-10.0	1.8	1.8	1.7	1.7
	-5.0	2.0	2.0	1.9	1.8
	0.0	2.3	2.2	2.0	1.8
	2.5	2.4	2.4	2.0	1.8
	6.0	2.6	2.5	2.0	1.8
	7.5	2.7	2.5	2.0	1.8
	10.0	2.8	2.5	2.0	1.8
	12.5	2.9	2.5	2.0	1.8
	15.5	2.9	2.5	2.0	1.8
25 (2.8)	-20.0	1.6	1.6	1.6	1.6
	-15.0	2.0	1.9	1.9	1.9
	-10.0	2.3	2.2	2.2	2.1
	-5.0	2.6	2.6	2.5	2.4
	0.0	2.9	2.9	2.5	2.4
	2.5	3.1	3.0	2.5	2.4
	6.0	3.3	3.2	2.5	2.4
	7.5	3.4	3.2	2.5	2.4
	10.0	3.6	3.2	2.5	2.4
	12.5	3.7	3.2	2.5	2.4
	15.5	3.7	3.2	2.5	2.4
32 (3.6)	-20.0	2.0	2.0	2.0	2.0
	-15.0	2.4	2.4	2.4	2.3
	-10.0	2.8	2.8	2.7	2.7
	-5.0	3.2	3.2	3.1	2.9
	0.0	3.6	3.6	3.2	2.9
	2.5	3.8	3.8	3.2	2.9
	6.0	4.1	4.0	3.2	2.9
	7.5	4.2	4.0	3.2	2.9
	10.0	4.4	4.0	3.2	2.9
	12.5	4.6	4.0	3.2	2.9
	15.5	4.6	4.0	3.2	2.9
40 (4.5)	-20.0	2.5	2.5	2.5	2.5
	-15.0	3.1	3.0	3.0	2.9
	-10.0	3.6	3.5	3.4	3.4
	-5.0	4.1	4.0	3.9	3.7
	0.0	4.6	4.5	4.0	3.7
	2.5	4.8	4.7	4.0	3.7
	6.0	5.2	5.0	4.0	3.7
	7.5	5.3	5.0	4.0	3.7
	10.0	5.6	5.0	4.0	3.7
	12.5	5.8	5.0	4.0	3.7
	15.5	5.8	5.0	4.0	3.7
50 (5.6)	-20.0	3.2	3.2	3.2	3.1
	-15.0	3.8	3.8	3.7	3.7
	-10.0	4.5	4.4	4.3	4.2
	-5.0	5.1	5.0	4.9	4.6
	0.0	5.7	5.6	5.0	4.6
	2.5	6.0	5.9	5.0	4.6
	6.0	6.5	6.3	5.0	4.6
	7.5	6.7	6.3	5.0	4.6
	10.0	7.0	6.3	5.0	4.6
	12.5	7.3	6.3	5.0	4.6
	15.5	7.3	6.3	5.0	4.6
63 (7.1)	-20.0	4.0	4.0	4.0	3.9
	-15.0	4.9	4.8	4.8	4.6
	-10.0	5.7	5.6	5.4	5.4
	-5.0	6.5	6.4	6.2	5.9
	0.0	7.3	7.2	6.4	5.9
	2.5	7.7	7.5	6.4	5.9
	6.0	8.2	8.0	6.4	5.9
	7.5	8.5	8.0	6.4	5.9
	10.0	8.9	8.0	6.4	5.9
	12.5	9.3	8.0	6.4	5.9
	15.5	9.3	8.0	6.4	5.9
80 (9.0)	-20.0	5.0	5.0	5.0	4.9
	-15.0	6.1	6.0	6.0	5.8
	-10.0	7.1	7.0	6.8	6.7
	-5.0	8.1	8.0	7.7	7.4
	0.0	9.1	9.0	8.0	7.4
	2.5	9.6	9.4	8.0	7.4
	6.0	10.3	10.0	8.0	7.4
	7.5	10.6	10.0	8.0	7.4
	10.0	11.1	10.0	8.0	7.4
	12.5	11.6	10.0	8.0	7.4
	15.5	11.6	10.0	8.0	7.4

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
100 (11.2)	-20.0	6.3	6.3	6.3	6.1
	-15.0	7.6	7.5	7.4	7.3
	-10.0	8.9	8.8	8.5	8.4
	-5.0	10.1	10.0	9.6	9.2
	0.0	11.4	11.2	9.9	9.2
	2.5	12.0	11.8	9.9	9.2
	6.0	12.9	12.5	9.9	9.2
	7.5	13.3	12.5	9.9	9.2
	10.0	13.9	12.5	9.9	9.2
	12.5	14.5	12.5	9.9	9.2
	15.5	14.5	12.5	9.9	9.2
125 (14.0)	-20.0	8.0	8.0	8.0	7.8
	-15.0	9.8	9.6	9.5	9.3
	-10.0	11.4	11.2	10.9	10.7
	-5.0	13.0	12.8	12.3	11.8
	0.0	14.6	14.3	12.7	11.8
	2.5	15.4	15.0	12.7	11.8
	6.0	16.5	16.0	12.7	11.8
	7.5	17.0	16.0	12.7	11.8
	10.0	17.8	16.0	12.7	11.8
	12.5	18.6	16.0	12.7	11.8
	15.5	18.6	16.0	12.7	11.8

3. Sound Levels

3.1 Noise levels

Casette ceiling

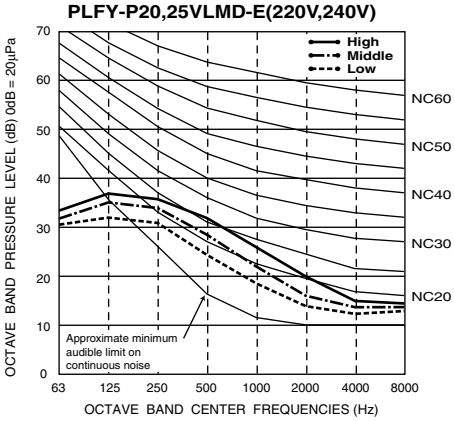


Noise level at anechoic room
(Low - Middle - High) Unit : dB(A)

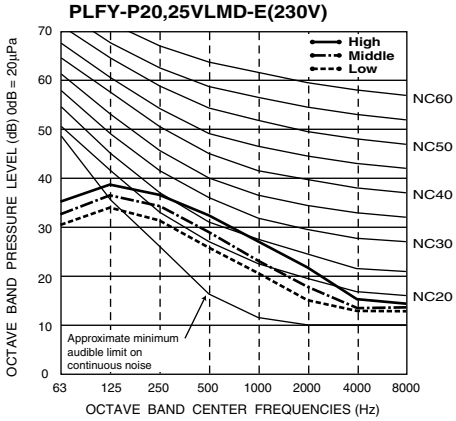
Model	Noise level (A weighted)	
	220V,240V	230V
PLFY-P20VLMD-E	27-30-33	28-31-34
PLFY-P25VLMD-E		
PLFY-P32VLMD-E		
PLFY-P40VLMD-E	29-33-36	30-34-37
PLFY-P50VLMD-E	31-34-37	32-35-38
PLFY-P63VLMD-E	32-37-39	33-38-40
PLFY-P80VLMD-E	33-36-39	34-37-40
PLFY-P100VLMD-E	36-39-42	37-41-43
PLFY-P125VLMD-E	40-42-44-46	

3.2 NC curves

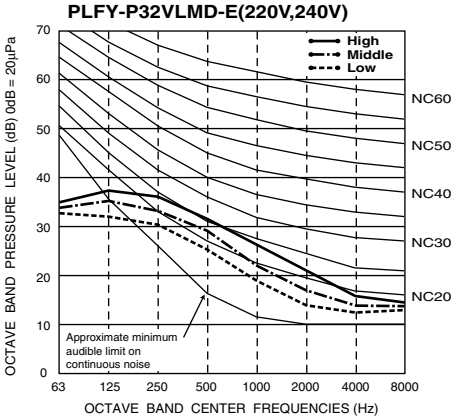
PLFY-P20,25VLMD-E(220V,240V)



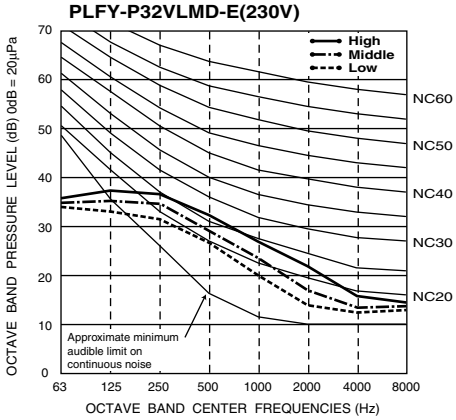
PLFY-P20,25VLMD-E(230V)



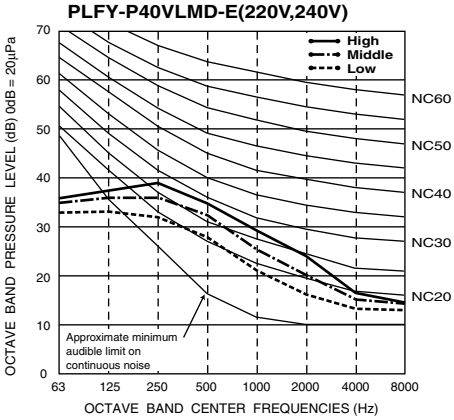
PLFY-P32VLMD-E(220V,240V)



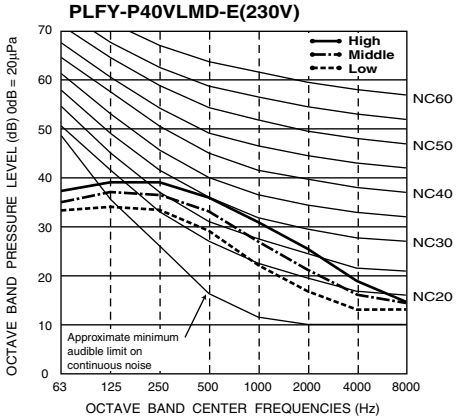
PLFY-P32VLMD-E(230V)



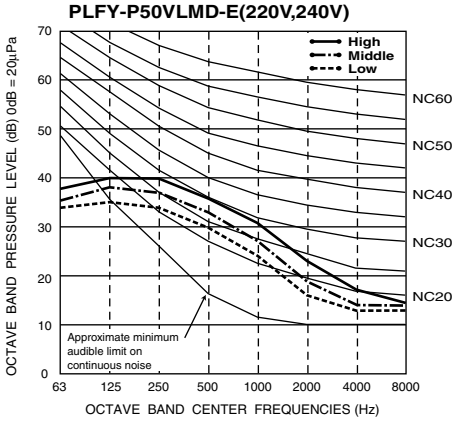
PLFY-P40VLMD-E(220V,240V)



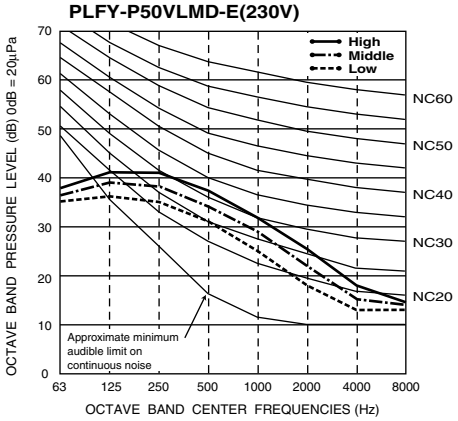
PLFY-P40VLMD-E(230V)



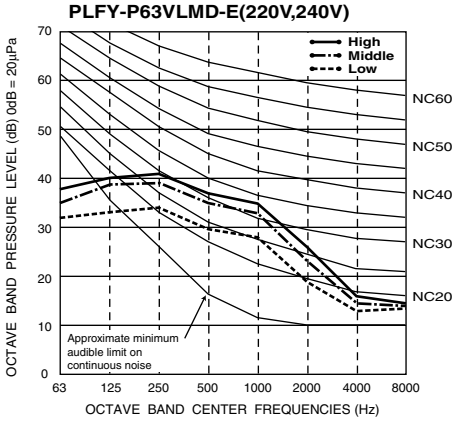
PLFY-P50VLMD-E(220V,240V)



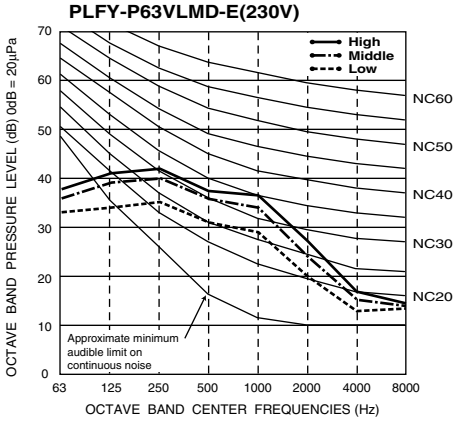
PLFY-P50VLMD-E(230V)



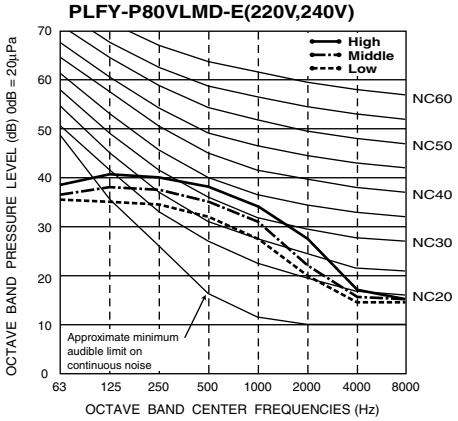
PLFY-P63VLMD-E(220V,240V)



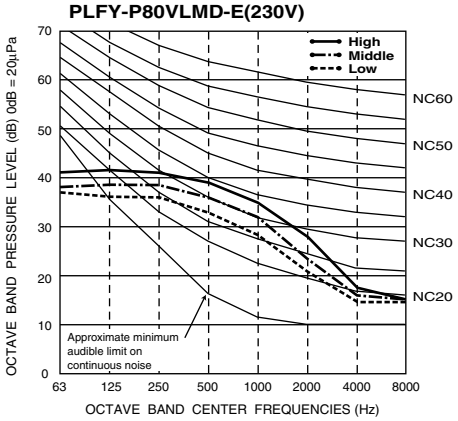
PLFY-P63VLMD-E(230V)



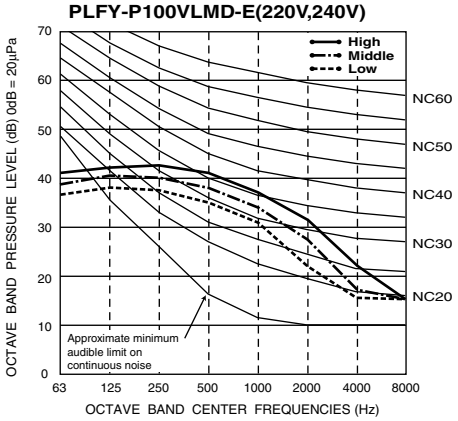
PLFY-P80VLMD-E(220V,240V)



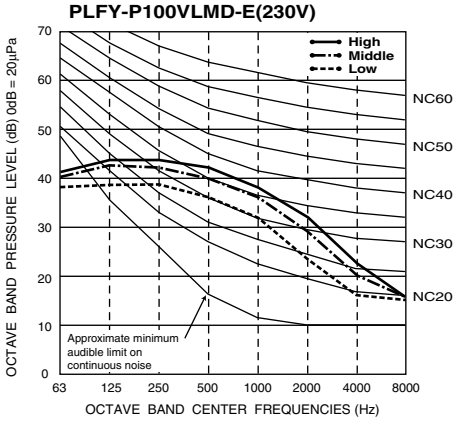
PLFY-P80VLMD-E(230V)

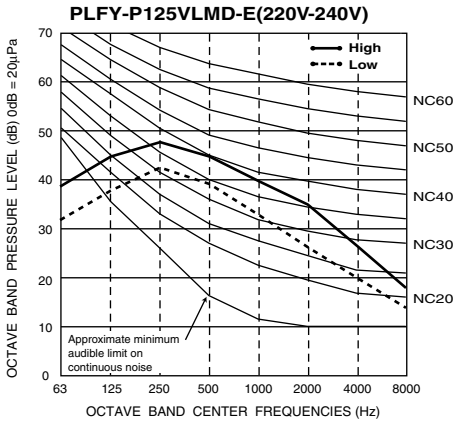


PLFY-P100VLMD-E(220V,240V)

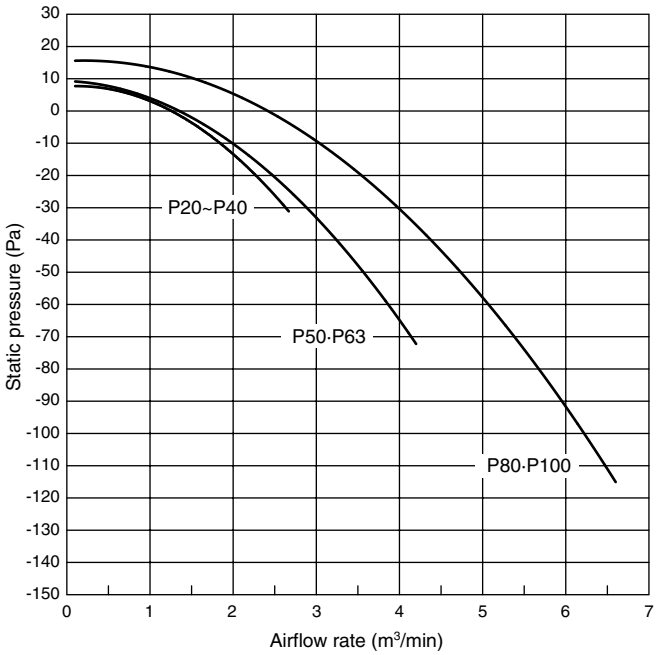


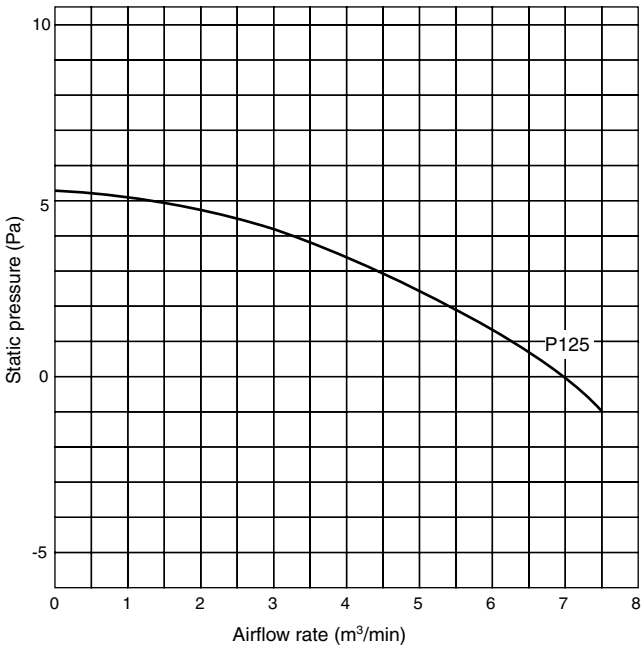
PLFY-P100VLMD-E(230V)





3.3 OA Intake-static pressure curve





Please confirm that inlet-air temperature (which is mixed with outdoor air) is in the following operating temperature range.

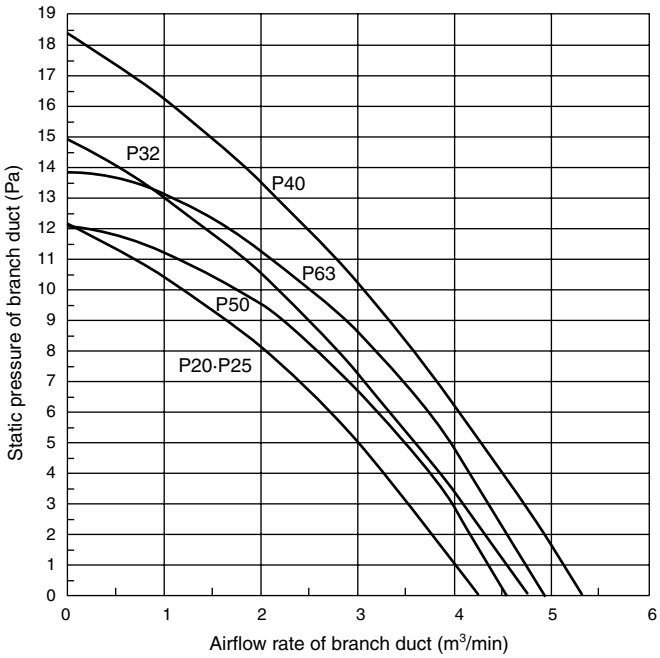
-P-VLMD-E : Operating temperature range

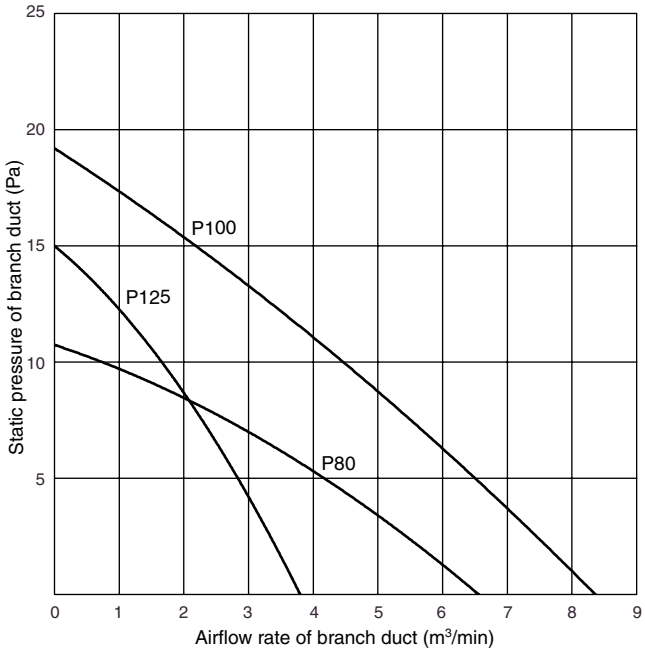
Mode	Temperature range of inlet air
Cooling	15˚C~24˚C(Wet bulb)
Dry	
Heating	15˚C~27˚C(Dry bulb)

*Relative humidity range is 30~80%.

PLFY-P-VLMD-E

3.4 Branch duct Intake-static pressure curve



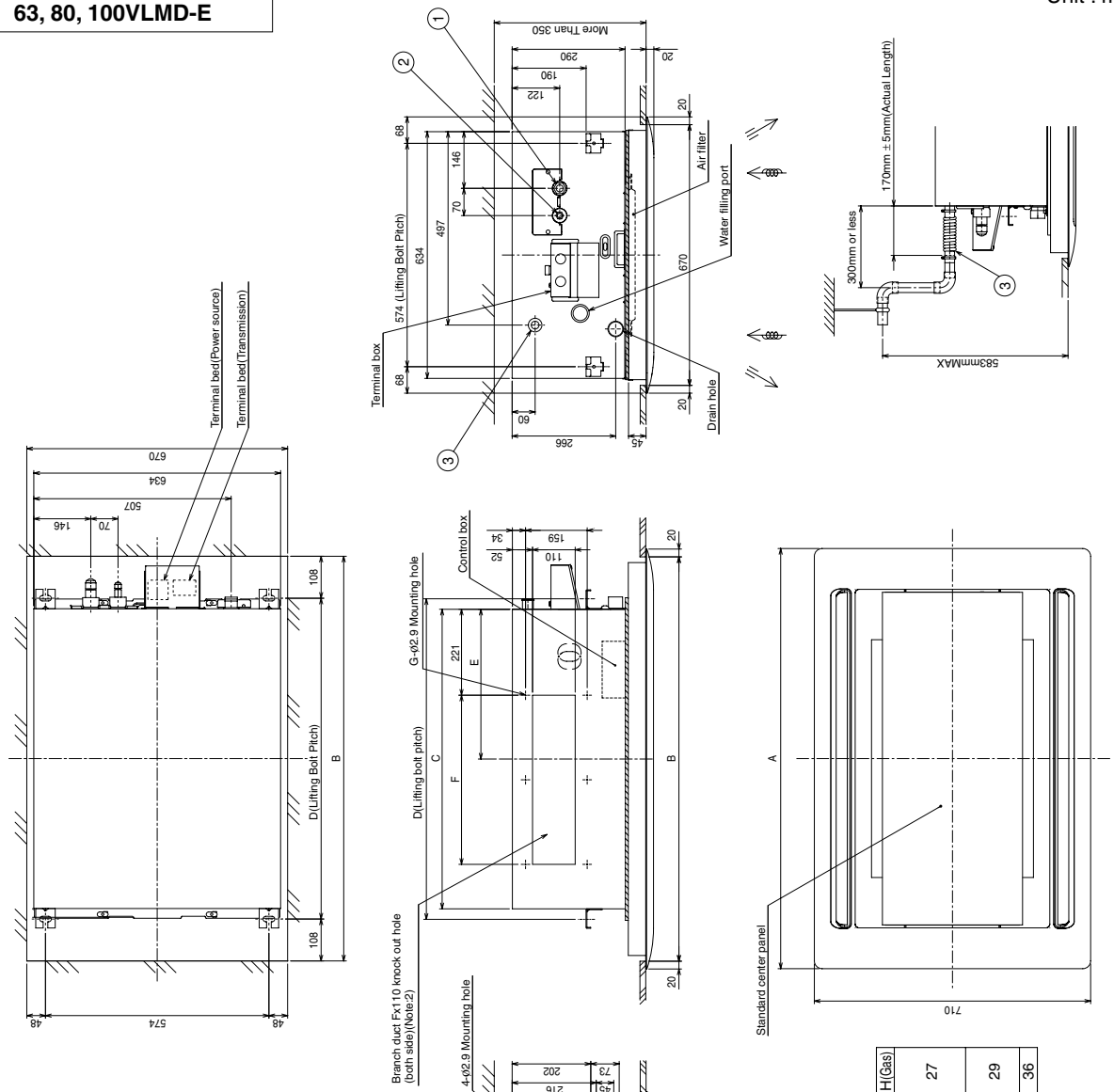


PLFY-P-VLMD-E

4. External Dimensions

PLFY-P20, 25, 32, 40, 50, 63, 80, 100VLMD-E

Unit : mm



Note: 1.Use M10 screw for the lifting bolt (field supply).
2.It is available to connect the branch duct on right and left side both.
3.On Model :50, 100, you would use flare nut packed with the Indoor Unit, when connecting the Outdoor Unit for R407C, R22.
4.In order to increase the strength of the flare nut, the size of some of them has been increased.

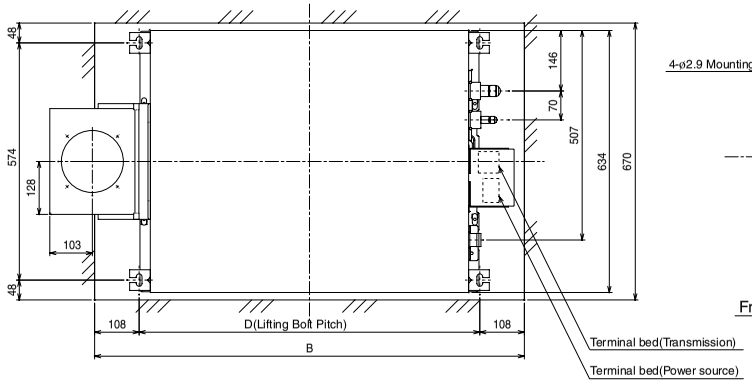
		<flare>	
Model 20·25·32·40	Gas pipe:LP	ø12.7	①
	Liquid pipe:HP	ø6.35	②
Model 50	Gas pipe:LP	ø12.7<R410A outdoor unit> ø15.88<R407C,R22 outdoor unit>	①
	Liquid pipe:HP	ø6.35<R410A outdoor unit> ø9.52<R407C,R22 outdoor unit>	②
Model 63·80	Gas pipe:LP	ø15.88	①
	Liquid pipe:HP	ø9.52	②
Model 100	Gas pipe:LP	ø15.88<R410A outdoor unit> ø19.05<R407C,R22 outdoor unit>	①
	Liquid pipe:HP	ø9.52	②
Drain hose	VP-25<flexible joint> (accessory)		③

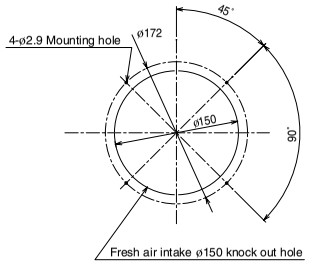
Model	A	B	C	D	E	F	G	H(Liquid)	H(Gas)
PLFY-P20VLMD-E	CMP-40VLW-B	1080	1040	776	824	388	217.5X2 =435	6	17	27
PLFY-P25VLMD-E										
PLFY-P32VLMD-E										
PLFY-P40VLMD-E										
PLFY-P50VLMD-E	CMP-63VLW-B	1250	1210	946	994	473			22	29
PLFY-P63VLMD-E										
PLFY-P80VLMD-E	CMP-100VLW-B	1750	1710	1446	1494	723	188.5X4 =754	10	22	36
PLFY-P100VLMD-E										

PLFY-P20, 25, 32, 40, 50, 63, 80, 100VLMD-E with OA duct flange

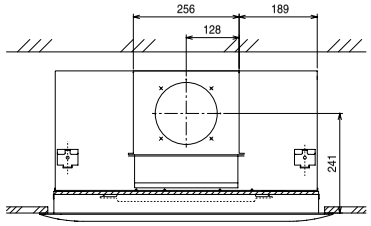
Note: 1.Use M10 screw for the lifing bolt (field supply).
2.It is available to connect the branch duct on right and left side both.
3.On Model :50, 100, you would use flare nut packed with the Indoor Unit, when connnecting the Outdoor Unit for R407C, R22.
4.In order to increase the strength of the flare nut, the size of some of them has been increased.

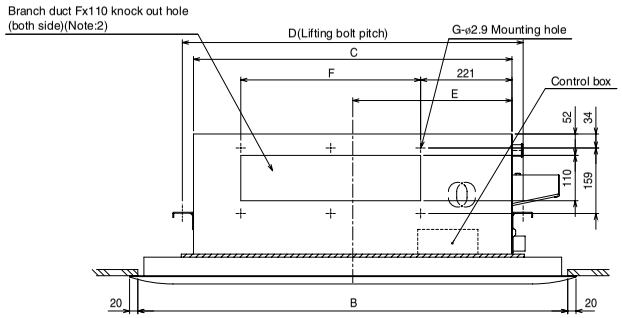
		<flare>	
Model 20·25·32·40	Gas pipe:LP	ø12.7	····· ①
	Liquid pipe:HP	ø6.35	····· ②
Model 50	Gas pipe:LP	ø12.7<R410A outdoor unit> ø15.88<R407C,R22 outdoor unit>	····· ①
	Liquid pipe:HP	ø6.35<R410A outdoor unit> ø9.52<R407C,R22 outdoor unit>	····· ②
Model 63·80	Gas pipe:LP	ø15.88	····· ①
	Liquid pipe:HP	ø9.52	····· ②
Model 100	Gas pipe:LP	ø15.88<R410A outdoor unit> ø19.05<R407C,R22 outdoor unit>	····· ①
	Liquid pipe:HP	ø9.52	····· ②
Drain hose	VP-25<flexible joint> (accessory)		····· ③

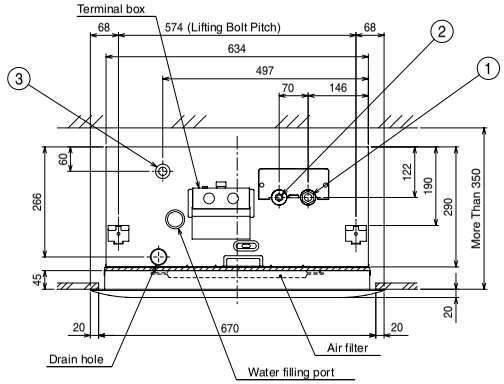


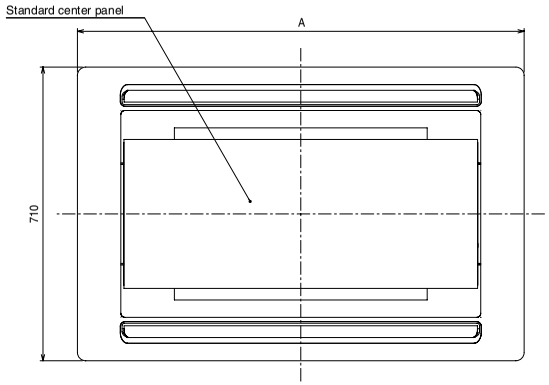


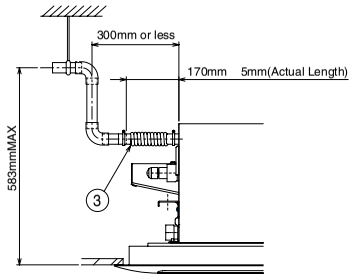
Fresh air intake knock out dimension











Model		A	B	C	D	E	F	G	H(Liquid)	H(Gas)
PLFY-P20VLMD-E	CMP-40VLW-B	1080	1040	776	824	388	217.5×2 =435	6	17	27
PLFY-P25VLMD-E										
PLFY-P32VLMD-E										
PLFY-P40VLMD-E										
PLFY-P50VLMD-E	CMP-63VLW-B	1250	1210	946	994	473			22	29
PLFY-P63VLMD-E										
PLFY-P80VLMD-E	CMP-100VLW-B	1750	1710	1446	1494	723	188.5×4 =754	10		
PLFY-P100VLMD-E									22	36

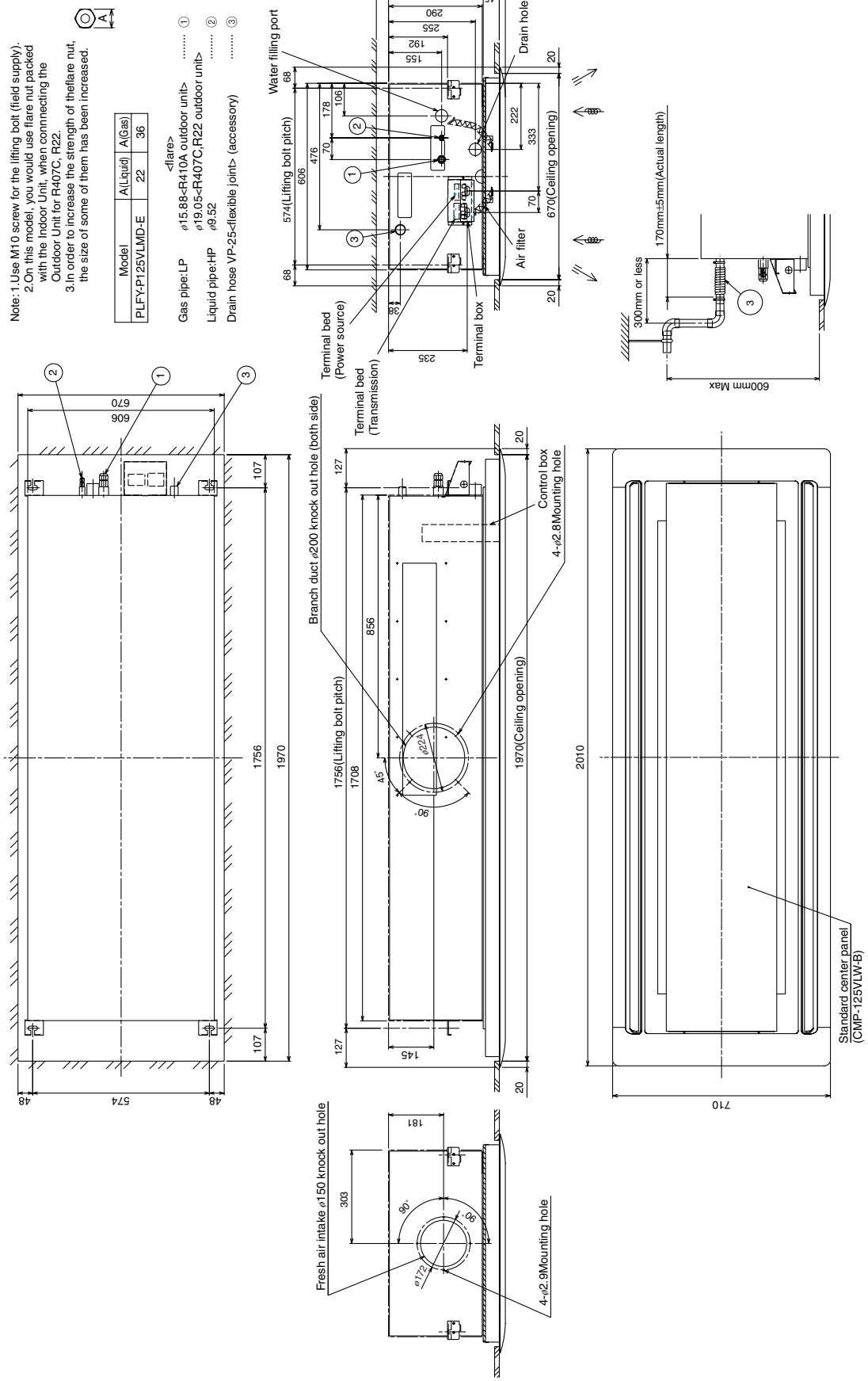
Unit : mm

PLFY-P125VLMD-E

Unit : mm

Note: 1. Use M10 screw for the lifting bolt (field supply).
2. On this model, you would use flare nut packed with the Indoor Unit, when connecting the Outdoor Unit for R407C, R22.
3. In order to increase the strength of theflare nut, the size of some of them has been increased.

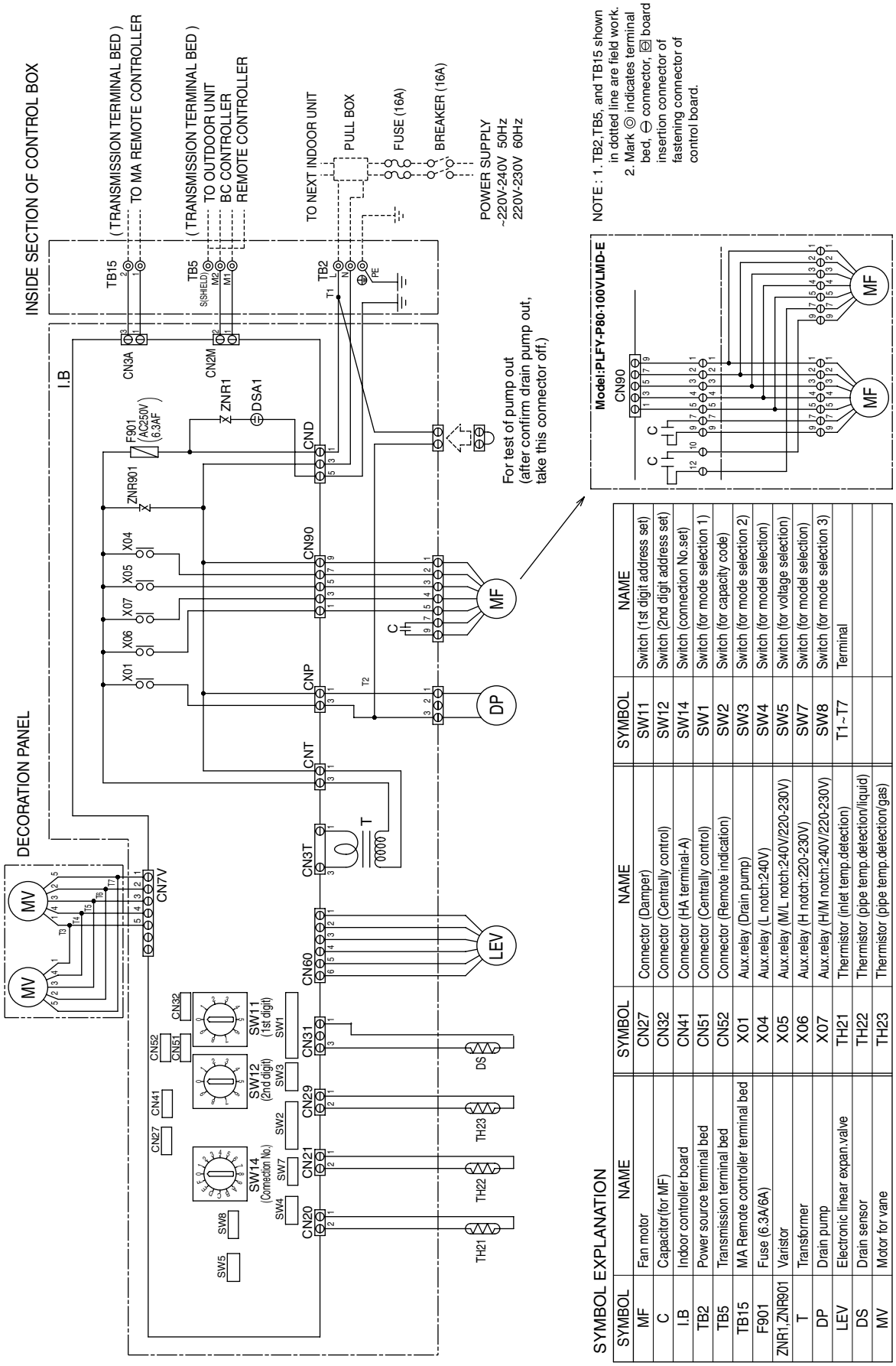
Model	A(Liquid)	A(Gas)
PLFY-P125VLMD-E	22	36



PLFY-P-VLMD-E

5. Electrical Wiring Diagram

● PLFY-P20,25,32,40,50,63,80VLMD-E

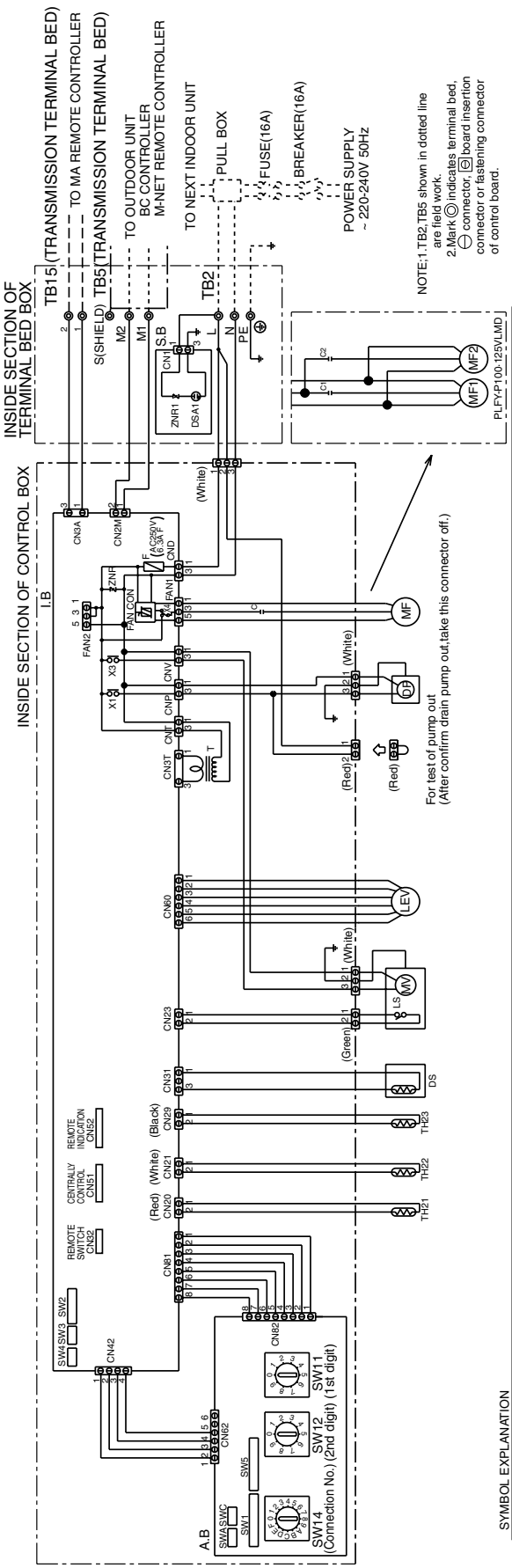


SYMBOL EXPLANATION

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
MF	Fan motor	CN27	Connector (Damper)	SW11	Switch (1st digit address set)
C	Capacitor(for MF)	CN32	Connector (Centrally control)	SW12	Switch (2nd digit address set)
I.B	Indoor controller board	CN41	Connector (HA terminal-A)	SW14	Switch (connection No.set)
TB2	Power source terminal bed	CN51	Connector (Centrally control)	SW1	Switch (for mode selection 1)
TB5	Transmission terminal bed	CN52	Connector (Remote indication)	SW2	Switch (for capacity code)
TB15	MA Remote controller terminal bed	X01	Aux.relay (Drain pump)	SW3	Switch (for mode selection 2)
F901	Fuse (6.3A/6A)	X04	Aux.relay (L notch:240V)	SW4	Switch (for model selection)
ZNR1,ZNR901	Varistor	X05	Aux.relay (M/L notch:240V/220-230V)	SW5	Switch (for voltage selection)
T	Transformer	X06	Aux.relay (H notch:220-230V)	SW7	Switch (for model selection)
DP	Drain pump	X07	Aux.relay (H/M notch:240V/220-230V)	SW8	Switch (for mode selection 3)
LEV	Electronic linear expan.valve	TH21	Thermistor (inlet temp.detection)	T1~T7	Terminal
DS	Drain sensor	TH22	Thermistor (pipe temp.detection/liquid)		
MV	Motor for vane	TH23	Thermistor (pipe temp.detection/gas)		

PLFY-P-VLMD-E

● PLFY-P100,125VLMD-E



NOTE;1.TB2,TB5 shown in dotted line are field work.
2.Mark ◎ indicates terminal bed, ⊖ connector, ⊡ board insertion connector or fastening connector of control board.

※ Capacitor 5.0μF × 2

SYMBOL EXPLANATION

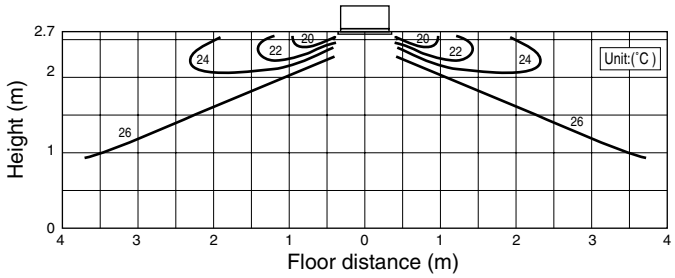
SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
MF,MF1,MF2	Fan motor	LEV	Electronic linear expan.valve	SW14(A.B)	Switch (connection No.set)
C,C1,C2	※ Capacitor(for MF,MF1,MF2)	S.B	Surge absorber board	SW1(A.B)	Switch (for mode selection)
I.B	Indoor controller board	LS	Limit switch (MV built in)	SW2(I.B)	Switch (for capacity code)
A.B	Address board	MV	Motor for vane (with limit switch)	SW3(I.B)	Switch (for mode selection)
TB2	Power source terminal bed	DS	Drain sensor	SW4(I.B)	Switch (for model selection)
TB5	Transmission terminal bed	TH21	Thermistor (inlet temp.detection)	SW5(A.B)	Switch (for voltage selection)
TB15	Transmission terminal bed	TH22	Thermistor (pipe temp.detection / liquid)	SWA(A.B)	Switch (option parts)
F	Fuse AC250V 6.3A F	TH23	Thermistor (pipe temp.detection / gas)	SWC(A.B)	Switch (option parts)
T	Transformer	SW11(A.B)	Switch (1st digit address set)	X1,X3,X4	Aux.relay
DP	Dorain pump	SW12(A.B)	Switch (2nd digit address set)		

6. Temperature/Airflow distribution

6.1 Temperature distribution

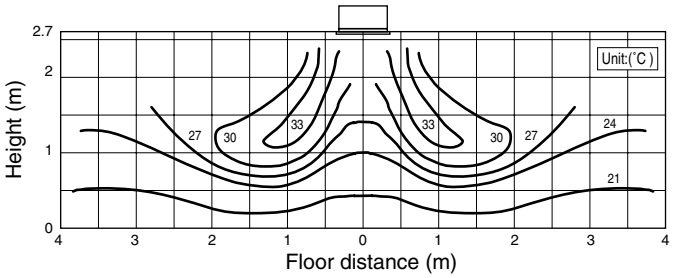
< Cooling mode >

Airflow angle : Horizontal Room temp.: 27˚C Airflow rate : High



< Heating mode >

Airflow angle : Downward Room temp.: 20˚C Airflow rate : High

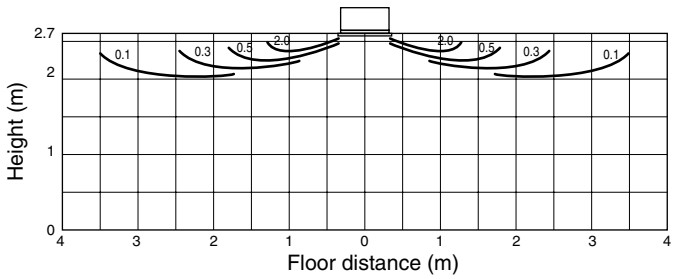


note : These figures show typical temperature distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

6.2 Airflow distribution

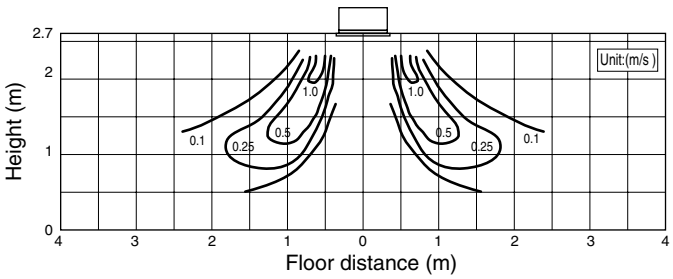
< Cooling mode >

Airflow angle : Horizontal Room temp.: 27˚C Airflow rate : High



< Heating mode >

Airflow angle : Downward Room temp.: 20˚C Airflow rate : High



note : These figures show typical temperature distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

7. Options

Description	Model	Applicable capacity
Decoration panel	CMP-40VLW-B	P20/P25/P32/P40
	CMP-63VLW-B	P50/P63
	CMP-100VLW-B	P80/P100
	CMP-125VLW-B	P125
OA duct flange	PAC-KH11OF	P20/P25/P32/P40/P50/P63/P80/P100

Cassette ceiling(4-way flow) PLFY-P-VAM-E

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Model Name	20	25	32	40	50	63	71	80	100	125	140	200	250
PLFY-P-VAM-E			●	●	●	●		●	●	●			

1. Specifications

			PLFY-P32VAM-E	PLFY-P40VAM-E	PLFY-P50VAM-E	PLFY-P63VAM-E
Power source			~ 220-240V 50Hz / ~ 220V 60Hz			
Cooling capacity	✻1	kW	3.6	4.5	5.6	7.1
	✻1	BTU/h	12,280	15,350	19,100	24,220
	✻2	kW	3.7	4.7	5.8	7.3
	✻2	kcal/h	3,150	4,000	5,000	6,300
Heating capacity	✻1	kW	4.0	5.0	6.3	8.0
	✻1	BTU/h	13,640	17,060	21,500	27,290
	✻2	kW	4.1	5.2	6.5	8.3
	✻2	kcal/h	3,550	4,500	5,600	7,100
Power consumption	Cooling	kW	0.12	0.14		0.16
	Heating	kW	0.12	0.14		0.16
Current	Cooling	A	0.59	0.68		0.78
	Heating	A	0.59	0.68		0.78
External finish(Munsel No.)			Panel : 0.70Y 8.59/0.97			
Dimension H x W x D ✻3		mm	258(30) x 840(950) x 840(950)			
Net weight ✻3		kg	22(5)			24(5)
Heat exchanger			Cross fin (Aluminum plate fin and copper tube)			
Fan	Type		Turbo fan			
	Airflow rate ✻3 (Low-Mid2-Mid1-High)	m^3/min	11-12-13-14	12-13-14-16		14-15-16-18
	External static pressure	Pa	0			
Motor	Type		Single phase induction motor			
	Output	kW	0.070			
Air filter			PP Honeycomb			
Refrigerant pipe dimension	Gas (Flare)	mm	ø 12.7		ø 12.7 / ø 15.88 (Compatible)	ø 15.88
	Liquid (Flare)	mm	ø 6.35		ø 6.35 / ø 9.52 (Compatible)	ø 9.52
Drain pipe dimension			O.D. ø32 (VP-25)			
Noise level (Lo-Mid2-Mid1-Hi) ✻3 ✻4		dB(A)	27-28-29-31	27-28-30-32		28-29-31-33

			PLFY-P80VAM-E	PLFY-P100VAM-E	PLFY-P125VAM-E
Power source			~ 220-240V 50Hz / ~ 220V 60Hz		
Cooling capacity	✻1	kW	9.0	11.2	14.0
	✻1	BTU/h	30,700	38,200	47,750
	✻2	kW	9.3	11.6	14.5
	✻2	kcal/h	8,000	10,000	12,500
Heating capacity	✻1	kW	10.0	12.5	16.0
	✻1	BTU/h	34,120	42,650	54,580
	✻2	kW	10.5	13.0	16.3
	✻2	kcal/h	9,000	11,200	14,000
Power consumption	Cooling	kW	0.18	0.30	0.34
	Heating	kW	0.18	0.30	0.34
Current	Cooling	A	0.86	1.43	1.64
	Heating	A	0.86	1.43	1.64
External finish(Munsel No.)			Panel : 0.70Y 8.59/0.97		
Dimension H x W x D ✻3		mm	258(30) x 840(950) x 840(950)	298(30) x 840(950) x 840(950)	
Net weight ✻3		kg	24(5)	32(5)	32(5)
Heat exchanger			Cross fin (Aluminum plate fin and copper tube)		
Fan	Type		Turbo fan		
	Airflow rate ✻3 (Low-Mid2-Mid1-High)	m^3/min	16-18-20-22	19-22-25-27	21-24-27-29
	External static pressure	Pa	0		
Motor	Type		Single phase induction motor		
	Output	kW	0.070	0.120	
Air filter			PP Honeycomb		
Refrigerant pipe dimension	Gas (Flare)	mm	ø 15.88	ø 15.88 / ø 19.05 (Compatible)	
	Liquid (Flare)	mm	ø 9.52		
Drain pipe dimension			O.D. ø32 (VP-25)		
Noise level (Lo-Mid2-Mid1-Hi) ✻3 ✻4		dB(A)	30-32-35-37	33-36-39-41	35-38-41-43

Note: ✻1 Cooling/Heating capacity indicates the maximum value at operation under the following condition.
Cooling : Indoor 27˚CDB/19˚CWB,Outdoor 35˚CDB
Heating : Indoor 20˚CDB,Outdoor 7˚CDB/6˚CWB
✻2 Cooling capacity indicates the maximum value at operation under the following condition.
Cooling : Indoor 27˚CDB/19.5˚CWB,Outdoor 35˚CDB (WR2: water 30˚C)
Heating : Indoor 21˚CDB,Outdoor 7 ˚CDB/6 ˚CWB (WR2: water 20˚C)
✻3 External dimension/ net weight are shown in (unit/panel) , and airflow rate/noise level are in (low-middle2-middle1-high).

2. Capacity Tables

2.1a. Cooling capacity in combination with PUHY,PUY,PURY-P200,250YGM

PLFY-P-VAM-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
32 (3.6)	20.0	3.2	2.7	3.4	2.9	3.7	2.9	3.9	2.9	4.0	3.0	4.2	3.0	4.6	3.0
	22.5	3.2	2.7	3.4	2.9	3.7	2.9	3.9	2.9	4.0	3.0	4.2	3.0	4.6	3.0
	25.0	3.2	2.7	3.4	2.9	3.7	2.9	3.9	2.9	4.0	3.0	4.2	3.0	4.5	3.0
	27.5	3.2	2.7	3.4	2.8	3.6	2.8	3.8	2.9	3.9	3.0	4.1	3.0	4.4	2.9
	30.0	3.2	2.7	3.3	2.8	3.6	2.8	3.7	2.9	3.8	3.0	4.0	2.9	4.3	2.9
	32.5	3.1	2.7	3.3	2.8	3.5	2.8	3.7	2.8	3.7	3.0	4.0	2.9	4.2	2.9
	35.0	3.1	2.6	3.2	2.8	3.4	2.7	3.6	2.8	3.7	2.9	3.9	2.9	4.1	2.9
	37.5	3.0	2.6	3.2	2.7	3.3	2.7	3.5	2.8	3.6	2.9	3.8	2.9	4.0	2.8
	40.0	3.0	2.6	3.1	2.7	3.3	2.7	3.5	2.8	3.5	2.9	3.7	2.8	4.0	2.8
	43.0	2.9	2.6	3.0	2.7	3.2	2.6	3.3	2.7	3.3	2.8	3.6	2.8	3.9	2.8
40 (4.5)	20.0	4.0	3.4	4.3	3.5	4.6	3.5	4.9	3.6	5.0	3.8	5.3	3.7	5.7	3.7
	22.5	4.0	3.4	4.3	3.5	4.6	3.5	4.9	3.6	5.0	3.8	5.3	3.7	5.7	3.7
	25.0	4.0	3.4	4.3	3.5	4.6	3.5	4.9	3.6	5.0	3.8	5.3	3.7	5.6	3.7
	27.5	4.0	3.3	4.3	3.5	4.5	3.5	4.8	3.6	4.8	3.7	5.2	3.7	5.5	3.6
	30.0	4.0	3.3	4.2	3.5	4.5	3.5	4.7	3.6	4.8	3.7	5.0	3.6	5.4	3.6
	32.5	3.9	3.3	4.1	3.4	4.4	3.4	4.6	3.5	4.7	3.6	5.0	3.6	5.3	3.6
	35.0	3.8	3.3	4.0	3.4	4.3	3.4	4.5	3.5	4.6	3.6	4.9	3.6	5.2	3.5
	37.5	3.8	3.2	4.0	3.4	4.2	3.3	4.4	3.5	4.5	3.6	4.8	3.5	5.0	3.5
	40.0	3.7	3.2	3.9	3.3	4.1	3.3	4.3	3.4	4.4	3.5	4.7	3.5	5.0	3.5
	43.0	3.6	3.2	3.8	3.3	4.0	3.3	4.2	3.4	4.2	3.5	4.5	3.5	4.8	3.4
50 (5.6)	20.0	5.0	3.9	5.3	4.1	5.8	4.1	6.0	4.2	6.2	4.3	6.6	4.3	7.1	4.2
	22.5	5.0	3.9	5.3	4.1	5.8	4.1	6.0	4.2	6.2	4.3	6.6	4.3	7.1	4.2
	25.0	5.0	3.9	5.3	4.1	5.8	4.1	6.0	4.2	6.2	4.3	6.6	4.3	6.9	4.2
	27.5	5.0	3.8	5.3	4.0	5.7	4.0	5.9	4.1	6.0	4.2	6.4	4.2	6.8	4.1
	30.0	4.9	3.8	5.2	4.0	5.5	4.0	5.8	4.1	5.9	4.2	6.3	4.1	6.7	4.1
	32.5	4.8	3.8	5.1	3.9	5.4	3.9	5.7	4.0	5.8	4.1	6.2	4.1	6.6	4.0
	35.0	4.8	3.7	5.0	3.9	5.3	3.9	5.6	4.0	5.7	4.1	6.0	4.1	6.4	4.0
	37.5	4.7	3.7	4.9	3.9	5.2	3.8	5.5	3.9	5.5	4.0	5.9	4.0	6.3	3.9
	40.0	4.6	3.7	4.8	3.8	5.1	3.8	5.4	3.9	5.5	4.0	5.8	4.0	6.2	3.9
	43.0	4.5	3.6	4.7	3.8	5.0	3.7	5.2	3.8	5.2	3.9	5.7	3.9	6.0	3.9
63 (7.1)	20.0	6.4	4.8	6.8	5.1	7.3	5.1	7.7	5.2	7.8	5.4	8.4	5.3	9.0	5.3
	22.5	6.4	4.8	6.8	5.1	7.3	5.1	7.7	5.2	7.8	5.4	8.4	5.3	9.0	5.3
	25.0	6.4	4.8	6.8	5.1	7.3	5.1	7.7	5.2	7.8	5.4	8.3	5.3	8.8	5.2
	27.5	6.3	4.8	6.7	5.1	7.2	5.0	7.5	5.2	7.6	5.3	8.1	5.2	8.7	5.2
	30.0	6.2	4.8	6.6	5.0	7.0	5.0	7.4	5.1	7.5	5.3	8.0	5.2	8.5	5.1
	32.5	6.1	4.7	6.5	4.9	6.9	4.9	7.2	5.0	7.3	5.2	7.8	5.1	8.3	5.1
	35.0	6.0	4.7	6.4	4.9	6.7	4.8	7.1	5.0	7.2	5.1	7.7	5.1	8.1	5.0
	37.5	6.0	4.6	6.2	4.8	6.6	4.8	6.9	4.9	7.0	5.1	7.5	5.0	8.0	4.9
	40.0	5.9	4.6	6.1	4.8	6.5	4.7	6.8	4.9	6.9	5.0	7.3	5.0	7.8	4.9
	43.0	5.8	4.5	6.0	4.7	6.3	4.7	6.6	4.8	6.6	4.9	7.2	4.9	7.6	4.8
80 (9.0)	20.0	8.1	6.0	8.6	6.3	9.3	6.3	9.7	6.5	9.9	6.7	10.6	6.6	11.4	6.5
	22.5	8.1	6.0	8.6	6.3	9.3	6.3	9.7	6.5	9.9	6.7	10.6	6.6	11.4	6.5
	25.0	8.1	6.0	8.6	6.3	9.3	6.3	9.7	6.5	9.9	6.6	10.5	6.6	11.2	6.5
	27.5	8.0	6.0	8.5	6.2	9.1	6.2	9.5	6.4	9.7	6.5	10.3	6.5	11.0	6.4
	30.0	7.9	5.9	8.4	6.2	8.9	6.1	9.4	6.3	9.5	6.5	10.1	6.4	10.8	6.3
	32.5	7.7	5.8	8.2	6.1	8.7	6.1	9.1	6.2	9.3	6.4	9.9	6.3	10.5	6.2
	35.0	7.7	5.8	8.1	6.0	8.6	6.0	9.0	6.1	9.1	6.3	9.7	6.2	10.3	6.1
	37.5	7.6	5.7	7.9	6.0	8.4	5.9	8.8	6.0	8.9	6.2	9.5	6.2	10.1	6.1
	40.0	7.4	5.7	7.7	5.9	8.2	5.8	8.6	6.0	8.8	6.2	9.3	6.1	9.9	6.0
	43.0	7.3	5.6	7.6	5.8	8.0	5.7	8.4	5.9	8.4	6.0	9.1	6.0	9.6	5.9
100 (11.2)	20.0	10.0	7.1	10.7	7.4	11.5	7.4	12.1	7.6	12.4	7.8	13.2	7.8	14.2	7.7
	22.5	10.0	7.1	10.7	7.4	11.5	7.4	12.1	7.6	12.4	7.8	13.2	7.8	14.2	7.7
	25.0	10.0	7.1	10.7	7.4	11.5	7.4	12.1	7.6	12.3	7.8	13.1	7.7	13.9	7.6
	27.5	10.0	7.0	10.6	7.4	11.3	7.3	11.9	7.5	12.0	7.7	12.8	7.6	13.7	7.5
	30.0	9.9	7.0	10.4	7.3	11.1	7.2	11.6	7.4	11.9	7.6	12.5	7.5	13.4	7.4
	32.5	9.6	6.9	10.2	7.2	10.9	7.1	11.4	7.3	11.6	7.5	12.3	7.4	13.1	7.3
	35.0	9.5	6.8	10.0	7.1	10.6	7.0	11.2	7.2	11.4	7.4	12.1	7.3	12.8	7.2
	37.5	9.4	6.7	9.9	7.0	10.4	6.9	10.9	7.1	11.1	7.2	11.9	7.2	12.5	7.1
	40.0	9.2	6.7	9.6	6.9	10.2	6.8	10.8	7.0	10.9	7.2	11.6	7.1	12.3	7.0
	43.0	9.1	6.6	9.4	6.8	10.0	6.7	10.4	6.8	10.4	6.9	11.3	7.0	12.0	6.9
125 (14.0)	20.0	12.5	8.8	13.4	9.2	14.4	9.2	15.1	9.4	15.5	9.7	16.5	9.6	17.7	9.5
	22.5	12.5	8.8	13.4	9.2	14.4	9.2	15.1	9.4	15.5	9.7	16.5	9.6	17.7	9.5
	25.0	12.5	8.8	13.4	9.2	14.4	9.2	15.1	9.4	15.4	9.7	16.4	9.6	17.4	9.4
	27.5	12.5	8.7	13.2	9.1	14.1	9.1	14.8	9.3	15.1	9.5	16.0	9.4	17.1	9.3
	30.0	12.3	8.6	13.0	9.0	13.9	9.0	14.6	9.2	14.8	9.4	15.7	9.3	16.7	9.2
	32.5	12.0	8.5	12.7	8.9	13.6	8.8	14.2	9.0	14.5	9.2	15.4	9.1	16.4	9.0
	35.0	11.9	8.4	12.5	8.8	13.3	8.7	14.0	8.9	14.2	9.1	15.1	9.0	16.0	8.9
	37.5	11.8	8.4	12.3	8.7	13.0	8.6	13.7	8.7	13.9	9.0	14.8	8.9	15.7	8.7
	40.0	11.6	8.2	12.0	8.5	12.8	8.5	13.4	8.7	13.7	8.9	14.5	8.8	15.4	8.6
	43.0	11.3	8.1	11.8	8.4	12.5	8.3	13.0	8.5	13.0	8.6	14.1	8.6	15.0	8.5

2.1b. Heating capacity in combination with PUHY,PUY,PURY-P200,250YGM

PLFY-P-VAM-E

SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
32 (3.6)	-20.0	2.1	2.0	2.0	2.0
	-15.0	2.5	2.4	2.4	2.4
	-10.0	2.9	2.9	2.8	2.7
	-5.0	3.4	3.3	3.2	2.8
	0.0	3.8	3.8	3.2	2.8
	2.5	4.0	4.0	3.2	2.8
	6.0	4.2	4.0	3.2	2.8
	7.5	4.3	4.0	3.2	2.8
	10.0	4.6	4.0	3.2	2.8
	12.5	4.8	4.0	3.2	2.8
	15.5	5.1	4.0	3.2	2.8
40 (4.5)	-20.0	2.6	2.5	2.5	2.5
	-15.0	3.1	3.1	3.0	3.0
	-10.0	3.7	3.6	3.5	3.4
	-5.0	4.2	4.2	4.0	3.5
	0.0	4.7	4.7	4.0	3.5
	2.5	5.0	5.0	4.0	3.5
	6.0	5.2	5.0	4.0	3.5
	7.5	5.4	5.0	4.0	3.5
	10.0	5.7	5.0	4.0	3.5
	12.5	6.0	5.0	4.0	3.5
	15.5	6.4	5.0	4.0	3.5
50 (5.6)	-20.0	3.2	3.2	3.2	3.2
	-15.0	3.9	3.8	3.8	3.7
	-10.0	4.6	4.5	4.4	4.3
	-5.0	5.3	5.2	5.0	4.4
	0.0	6.0	5.9	5.0	4.4
	2.5	6.3	6.2	5.0	4.4
	6.0	6.6	6.3	5.0	4.4
	7.5	6.8	6.3	5.0	4.4
	10.0	7.2	6.3	5.0	4.4
	12.5	7.6	6.3	5.0	4.4
	15.5	8.1	6.3	5.0	4.4
63 (7.1)	-20.0	4.1	4.0	4.0	4.0
	-15.0	5.0	4.9	4.8	4.7
	-10.0	5.8	5.8	5.6	5.5
	-5.0	6.7	6.6	6.4	5.6
	0.0	7.6	7.5	6.4	5.6
	2.5	8.0	7.9	6.4	5.6
	6.0	8.3	8.0	6.4	5.6
	7.5	8.6	8.0	6.4	5.6
	10.0	9.1	8.0	6.4	5.6
	12.5	9.6	8.0	6.4	5.6
	15.5	10.2	8.0	6.4	5.6
80 (9.0)	-20.0	5.2	5.0	5.0	5.0
	-15.0	6.2	6.1	6.0	5.9
	-10.0	7.3	7.2	7.0	6.9
	-5.0	8.4	8.3	8.0	7.0
	0.0	9.5	9.4	8.0	7.0
	2.5	10.0	9.9	8.0	7.0
	6.0	10.4	10.0	8.0	7.0
	7.5	10.8	10.0	8.0	7.0
	10.0	11.4	10.0	8.0	7.0
	12.5	12.1	10.0	8.0	7.0
	15.5	12.8	10.0	8.0	7.0
100 (11.2)	-20.0	6.4	6.3	6.3	6.3
	-15.0	7.8	7.6	7.5	7.4
	-10.0	9.1	9.0	8.8	8.6
	-5.0	10.5	10.4	10.0	8.8
	0.0	11.8	11.8	10.0	8.8
	2.5	12.5	12.4	10.0	8.8
	6.0	13.0	12.5	10.0	8.8
	7.5	13.4	12.5	10.0	8.8
	10.0	14.3	12.5	10.0	8.8
	12.5	15.1	12.5	10.0	8.8
	15.5	16.0	12.5	10.0	8.8
125 (14.0)	-20.0	8.2	8.0	8.0	8.0
	-15.0	9.9	9.8	9.6	9.4
	-10.0	11.7	11.5	11.2	11.0
	-5.0	13.4	13.3	12.8	11.2
	0.0	15.1	15.0	12.8	11.2
	2.5	16.0	15.8	12.8	11.2
	6.0	16.6	16.0	12.8	11.2
	7.5	17.2	16.0	12.8	11.2
	10.0	18.2	16.0	12.8	11.2
	12.5	19.3	16.0	12.8	11.2
	15.5	20.5	16.0	12.8	11.2

2.2a. Cooling capacity in combination with PUHY,PUY,PURY-P300,350,400YGM

PLFY-P-VAM-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
32 (3.6)	20.0	3.5	2.8	3.6	2.9	3.9	2.9	4.0	3.0	4.2	3.1	4.4	3.1	4.7	3.0
	22.5	3.5	2.8	3.6	2.9	3.8	2.9	4.0	3.0	4.1	3.1	4.3	3.1	4.6	3.0
	25.0	3.4	2.8	3.5	2.9	3.8	2.9	3.9	2.9	4.0	3.1	4.2	3.0	4.5	3.0
	27.5	3.4	2.8	3.5	2.9	3.7	2.8	3.8	2.9	3.9	3.0	4.2	3.0	4.4	2.9
	30.0	3.3	2.8	3.4	2.8	3.6	2.8	3.7	2.9	3.9	3.0	4.1	3.0	4.3	2.9
	32.5	3.3	2.7	3.3	2.8	3.5	2.8	3.7	2.9	3.8	3.0	4.0	2.9	4.2	2.9
	35.0	3.2	2.7	3.3	2.8	3.5	2.8	3.6	2.8	3.7	2.9	3.9	2.9	4.2	2.9
	37.5	3.2	2.7	3.2	2.7	3.4	2.7	3.5	2.8	3.6	2.9	3.9	2.9	4.1	2.8
	40.0	3.1	2.7	3.1	2.7	3.3	2.7	3.4	2.8	3.9	3.0	3.8	2.8	4.0	2.8
	43.0	3.0	2.6	3.0	2.7	3.2	2.7	3.3	2.7	3.4	2.8	3.7	2.8	3.9	2.8
40 (4.5)	20.0	4.4	3.5	4.5	3.6	4.9	3.6	5.0	3.7	5.2	3.9	5.5	3.8	5.9	3.8
	22.5	4.3	3.5	4.5	3.6	4.8	3.6	5.0	3.7	5.1	3.8	5.4	3.8	5.7	3.7
	25.0	4.3	3.5	4.4	3.6	4.7	3.6	4.9	3.6	5.0	3.8	5.3	3.7	5.6	3.7
	27.5	4.2	3.4	4.3	3.5	4.6	3.5	4.8	3.6	4.9	3.8	5.2	3.7	5.5	3.6
	30.0	4.1	3.4	4.2	3.5	4.5	3.5	4.7	3.6	4.8	3.7	5.1	3.7	5.4	3.6
	32.5	4.1	3.4	4.2	3.5	4.4	3.4	4.6	3.5	4.7	3.7	5.0	3.6	5.3	3.6
	35.0	4.0	3.3	4.1	3.4	4.3	3.4	4.5	3.5	4.6	3.6	4.9	3.6	5.2	3.5
	37.5	4.0	3.3	4.0	3.4	4.3	3.4	4.4	3.5	4.5	3.6	4.8	3.6	5.1	3.5
	40.0	3.9	3.3	3.9	3.4	4.2	3.3	4.3	3.4	4.9	3.7	4.7	3.5	5.0	3.5
	43.0	3.8	3.2	3.8	3.3	4.1	3.3	4.2	3.4	4.3	3.5	4.6	3.5	4.8	3.4
50 (5.6)	20.0	5.4	4.1	5.6	4.2	6.0	4.2	6.3	4.3	6.5	4.4	6.9	4.4	7.3	4.3
	22.5	5.4	4.1	5.6	4.2	6.0	4.2	6.2	4.2	6.4	4.4	6.7	4.3	7.1	4.3
	25.0	5.3	4.0	5.5	4.1	5.9	4.1	6.0	4.2	6.2	4.3	6.6	4.3	7.0	4.2
	27.5	5.2	4.0	5.4	4.1	5.7	4.1	5.9	4.1	6.1	4.3	6.5	4.2	6.9	4.2
	30.0	5.2	3.9	5.3	4.0	5.6	4.0	5.8	4.1	6.0	4.2	6.4	4.2	6.7	4.1
	32.5	5.1	3.9	5.2	4.0	5.5	4.0	5.7	4.0	5.9	4.2	6.2	4.1	6.6	4.1
	35.0	5.0	3.8	5.1	3.9	5.4	3.9	5.6	4.0	5.8	4.1	6.1	4.1	6.5	4.0
	37.5	4.9	3.8	5.0	3.9	5.3	3.9	5.5	3.9	5.7	4.1	6.0	4.0	6.3	4.0
	40.0	4.8	3.8	4.8	3.8	5.2	3.8	5.3	3.9	6.1	4.3	5.9	4.0	6.2	3.9
	43.0	4.7	3.7	4.7	3.8	5.0	3.7	5.2	3.8	5.3	4.0	5.7	3.9	6.0	3.9
63 (7.1)	20.0	6.9	5.1	7.1	5.3	7.7	5.3	8.0	5.3	8.2	5.5	8.7	5.5	9.2	5.4
	22.5	6.9	5.1	7.1	5.2	7.6	5.2	7.8	5.3	8.1	5.5	8.5	5.4	9.1	5.3
	25.0	6.8	5.0	7.0	5.2	7.4	5.1	7.7	5.2	7.9	5.4	8.4	5.3	8.9	5.3
	27.5	6.6	5.0	6.8	5.1	7.3	5.1	7.5	5.2	7.8	5.4	8.2	5.3	8.7	5.2
	30.0	6.5	4.9	6.7	5.0	7.1	5.0	7.4	5.1	7.6	5.3	8.1	5.2	8.5	5.1
	32.5	6.4	4.9	6.6	5.0	7.0	4.9	7.2	5.0	7.5	5.2	7.9	5.2	8.4	5.1
	35.0	6.3	4.8	6.4	4.9	6.8	4.9	7.1	5.0	7.3	5.2	7.7	5.1	8.2	5.0
	37.5	6.2	4.8	6.3	4.9	6.7	4.8	6.9	4.9	7.2	5.1	7.6	5.0	8.0	5.0
	40.0	6.1	4.7	6.1	4.8	6.6	4.8	6.8	4.8	7.7	5.3	7.4	5.0	7.8	4.9
	43.0	6.0	4.6	6.0	4.7	6.4	4.7	6.6	4.8	6.8	5.0	7.2	4.9	7.6	4.8
80 (9.0)	20.0	8.7	6.3	9.0	6.5	9.7	6.5	10.1	6.6	10.4	6.9	11.0	6.8	11.7	6.7
	22.5	8.7	6.3	9.0	6.5	9.6	6.4	9.9	6.5	10.2	6.8	10.8	6.7	11.5	6.6
	25.0	8.6	6.3	8.8	6.4	9.4	6.4	9.7	6.5	10.0	6.7	10.6	6.6	11.3	6.5
	27.5	8.4	6.2	8.6	6.3	9.2	6.3	9.5	6.4	9.8	6.6	10.4	6.5	11.0	6.4
	30.0	8.3	6.1	8.5	6.2	9.0	6.2	9.4	6.3	9.6	6.5	10.3	6.5	10.8	6.3
	32.5	8.1	6.0	8.3	6.2	8.9	6.1	9.2	6.2	9.5	6.4	10.0	6.3	10.6	6.3
	35.0	8.0	6.0	8.1	6.1	8.6	6.0	9.0	6.1	9.3	6.4	9.8	6.3	10.4	6.2
	37.5	7.9	5.9	8.0	6.0	8.5	6.0	8.8	6.0	9.1	6.3	9.6	6.2	10.2	6.1
	40.0	7.8	5.8	7.8	5.9	8.3	5.9	8.6	6.0	9.8	6.6	9.4	6.1	9.9	6.0
	43.0	7.6	5.7	7.6	5.8	8.1	5.8	8.4	5.9	8.6	6.1	9.1	6.0	9.7	5.9
100 (11.2)	20.0	10.9	7.5	11.3	7.7	12.1	7.7	12.5	7.8	12.9	8.1	13.7	8.0	14.6	7.9
	22.5	10.8	7.5	11.2	7.7	11.9	7.6	12.3	7.7	12.7	8.0	13.5	7.9	14.3	7.7
	25.0	10.7	7.4	11.0	7.6	11.7	7.5	12.1	7.6	12.5	7.9	13.2	7.8	14.0	7.6
	27.5	10.5	7.3	10.8	7.5	11.5	7.4	11.9	7.5	12.2	7.8	13.0	7.7	13.7	7.5
	30.0	10.3	7.2	10.5	7.3	11.3	7.3	11.6	7.4	12.0	7.6	12.8	7.6	13.4	7.4
	32.5	10.1	7.1	10.4	7.3	11.0	7.2	11.4	7.3	11.8	7.5	12.4	7.4	13.2	7.3
	35.0	10.0	7.0	10.1	7.1	10.8	7.1	11.2	7.2	11.5	7.4	12.2	7.3	12.9	7.2
	37.5	9.9	7.0	9.9	7.0	10.6	7.0	10.9	7.1	11.3	7.3	12.0	7.2	12.7	7.1
	40.0	9.7	6.9	9.7	6.9	10.4	6.9	10.7	7.0	12.2	7.7	11.7	7.1	12.4	7.0
	43.0	9.4	6.7	9.4	6.8	10.1	6.7	10.4	6.8	10.7	7.1	11.4	7.0	12.0	6.9
125 (14.0)	20.0	13.6	9.3	14.1	9.6	15.1	9.6	15.7	9.7	16.2	10.0	17.2	9.9	18.2	9.7
	22.5	13.5	9.3	14.0	9.5	14.9	9.5	15.4	9.6	15.9	9.9	16.8	9.8	17.9	9.6
	25.0	13.4	9.2	13.7	9.4	14.6	9.3	15.1	9.4	15.6	9.8	16.5	9.6	17.5	9.5
	27.5	13.1	9.1	13.4	9.3	14.4	9.2	14.8	9.3	15.3	9.6	16.2	9.5	17.2	9.3
	30.0	12.9	9.0	13.2	9.1	14.1	9.1	14.6	9.2	15.0	9.5	16.0	9.4	16.8	9.2
	32.5	12.7	8.8	13.0	9.0	13.8	8.9	14.3	9.0	14.7	9.3	15.5	9.2	16.5	9.1
	35.0	12.5	8.7	12.7	8.8	13.4	8.8	14.0	8.9	14.4	9.2	15.3	9.1	16.2	8.9
	37.5	12.3	8.6	12.4	8.7	13.2	8.7	13.7	8.7	14.1	9.1	15.0	9.0	15.8	8.8
	40.0	12.1	8.5	12.1	8.6	13.0	8.5	13.4	8.6	15.2	9.6	14.6	8.8	15.5	8.7
	43.0	11.8	8.4	11.8	8.4	12.6	8.4	13.0	8.5	13.4	8.7	14.2	8.6	15.1	8.5

2.2b. Heating capacity in combination with PUHY,PUY,PURY-P300,350,400YGM

PLFY-P-VAM-E

SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
32 (3.6)	-20.0	2.1	2.0	2.0	1.9
	-15.0	2.4	2.4	2.4	2.3
	-10.0	2.8	2.8	2.7	2.6
	-5.0	3.2	3.2	3.0	2.6
	0.0	3.6	3.6	3.0	2.6
	2.5	3.8	3.8	3.0	2.6
	6.0	4.1	4.0	3.0	2.6
	7.5	4.2	4.0	3.0	2.6
	10.0	4.4	4.0	3.0	2.6
	12.5	4.6	4.0	3.0	2.6
	15.5	4.6	4.0	3.0	2.6
40 (4.5)	-20.0	2.6	2.5	2.5	2.4
	-15.0	3.0	3.0	3.0	2.9
	-10.0	3.5	3.5	3.4	3.2
	-5.0	4.0	4.0	3.8	3.2
	0.0	4.5	4.5	3.8	3.2
	2.5	4.8	4.7	3.8	3.2
	6.0	5.1	5.0	3.8	3.2
	7.5	5.3	5.0	3.8	3.2
	10.0	5.5	5.0	3.8	3.2
	12.5	5.8	5.0	3.8	3.2
	15.5	5.8	5.0	3.8	3.2
50 (5.6)	-20.0	3.3	3.2	3.2	3.0
	-15.0	3.8	3.8	3.8	3.7
	-10.0	4.4	4.4	4.3	4.0
	-5.0	5.0	5.0	4.7	4.0
	0.0	5.7	5.7	4.7	4.0
	2.5	6.0	6.0	4.7	4.0
	6.0	6.5	6.3	4.7	4.0
	7.5	6.7	6.3	4.7	4.0
	10.0	7.0	6.3	4.7	4.0
	12.5	7.2	6.3	4.7	4.0
	15.5	7.2	6.3	4.7	4.0
63 (7.1)	-20.0	4.2	4.0	4.0	3.8
	-15.0	4.8	4.8	4.8	4.6
	-10.0	5.6	5.6	5.5	5.1
	-5.0	6.4	6.4	6.0	5.1
	0.0	7.2	7.2	6.0	5.1
	2.5	7.6	7.6	6.0	5.1
	6.0	8.2	8.0	6.0	5.1
	7.5	8.5	8.0	6.0	5.1
	10.0	8.8	8.0	6.0	5.1
	12.5	9.2	8.0	6.0	5.1
	15.5	9.2	8.0	6.0	5.1
80 (9.0)	-20.0	5.2	5.0	5.0	4.8
	-15.0	6.0	6.0	6.0	5.8
	-10.0	7.0	7.0	6.9	6.4
	-5.0	8.0	8.0	7.5	6.4
	0.0	9.0	9.0	7.5	6.4
	2.5	9.6	9.5	7.5	6.4
	6.0	10.3	10.0	7.5	6.4
	7.5	10.6	10.0	7.5	6.4
	10.0	11.1	10.0	7.5	6.4
	12.5	11.5	10.0	7.5	6.4
	15.5	11.5	10.0	7.5	6.4
100 (11.2)	-20.0	6.5	6.3	6.3	6.0
	-15.0	7.5	7.5	7.5	7.3
	-10.0	8.8	8.8	8.6	8.0
	-5.0	10.0	10.0	9.4	8.0
	0.0	11.3	11.3	9.4	8.0
	2.5	11.9	11.8	9.4	8.0
	6.0	12.8	12.5	9.4	8.0
	7.5	13.3	12.5	9.4	8.0
	10.0	13.8	12.5	9.4	8.0
	12.5	14.4	12.5	9.4	8.0
	15.5	14.4	12.5	9.4	8.0
125 (14.0)	-20.0	8.3	8.0	8.0	7.7
	-15.0	9.6	9.6	9.6	9.3
	-10.0	11.2	11.2	11.0	10.2
	-5.0	12.8	12.8	12.0	10.2
	0.0	14.4	14.4	12.0	10.2
	2.5	15.3	15.1	12.0	10.2
	6.0	16.4	16.0	12.0	10.2
	7.5	17.0	16.0	12.0	10.2
	10.0	17.7	16.0	12.0	10.2
	12.5	18.4	16.0	12.0	10.2
	15.5	18.4	16.0	12.0	10.2

2.3a. Cooling capacity in combination with PUHY,PURY-P450,500,550,600,650YGM

PLFY-P-VAM-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
32 (3.6)	20.0	3.4	2.8	3.5	2.9	3.7	2.9	3.9	2.9	4.0	3.1	4.2	3.0	4.5	3.0
	22.5	3.4	2.8	3.5	2.9	3.7	2.9	3.8	2.9	4.0	3.0	4.2	3.0	4.5	3.0
	25.0	3.3	2.8	3.4	2.9	3.7	2.8	3.8	2.9	3.9	3.0	4.2	3.0	4.4	3.0
	27.5	3.3	2.8	3.4	2.8	3.6	2.8	3.7	2.9	3.9	3.0	4.1	3.0	4.3	2.9
	30.0	3.3	2.7	3.3	2.8	3.6	2.8	3.7	2.9	3.9	3.0	4.1	3.0	4.4	2.9
	32.5	3.2	2.7	3.3	2.8	3.5	2.8	3.6	2.8	3.8	3.0	4.1	3.0	4.3	2.9
	35.0	3.2	2.7	3.3	2.8	3.5	2.8	3.6	2.8	3.7	3.0	4.0	2.9	4.3	2.9
	37.5	3.2	2.7	3.2	2.8	3.5	2.8	3.5	2.8	3.7	3.0	4.0	2.9	4.2	2.9
	40.0	3.1	2.7	3.2	2.7	3.4	2.7	3.5	2.8	3.7	2.9	4.0	2.9	4.2	2.9
	43.0	3.1	2.7	3.2	2.7	3.4	2.7	3.5	2.8	3.6	2.9	3.9	2.9	4.2	2.9
40 (4.5)	20.0	4.3	3.5	4.4	3.6	4.7	3.6	4.8	3.6	5.0	3.8	5.3	3.7	5.7	3.7
	22.5	4.2	3.5	4.3	3.6	4.6	3.5	4.8	3.6	5.0	3.8	5.3	3.7	5.6	3.7
	25.0	4.2	3.4	4.3	3.5	4.6	3.5	4.7	3.6	4.9	3.7	5.2	3.7	5.6	3.7
	27.5	4.1	3.4	4.2	3.5	4.5	3.5	4.7	3.6	4.9	3.7	5.2	3.7	5.4	3.6
	30.0	4.1	3.4	4.2	3.5	4.5	3.5	4.6	3.5	4.8	3.7	5.1	3.7	5.4	3.6
	32.5	4.1	3.4	4.1	3.5	4.4	3.4	4.5	3.5	4.8	3.7	5.1	3.7	5.4	3.6
	35.0	4.0	3.3	4.1	3.4	4.4	3.4	4.5	3.5	4.7	3.7	5.0	3.6	5.4	3.6
	37.5	4.0	3.3	4.0	3.4	4.3	3.4	4.4	3.5	4.7	3.6	5.0	3.6	5.3	3.6
	40.0	3.9	3.3	4.0	3.4	4.3	3.4	4.4	3.4	4.6	3.6	5.0	3.6	5.3	3.6
	43.0	3.9	3.3	3.9	3.4	4.2	3.4	4.3	3.4	4.5	3.6	4.9	3.6	5.2	3.5
50 (5.6)	20.0	5.3	4.0	5.5	4.1	5.8	4.1	6.0	4.1	6.2	4.3	6.6	4.3	7.1	4.2
	22.5	5.3	4.0	5.4	4.1	5.8	4.1	5.9	4.1	6.2	4.3	6.6	4.3	7.0	4.2
	25.0	5.2	4.0	5.3	4.1	5.7	4.0	5.9	4.1	6.1	4.3	6.5	4.2	6.9	4.2
	27.5	5.2	3.9	5.3	4.0	5.7	4.0	5.8	4.1	6.0	4.3	6.4	4.2	6.7	4.1
	30.0	5.1	3.9	5.2	4.0	5.6	4.0	5.8	4.1	6.0	4.2	6.4	4.2	6.8	4.1
	32.5	5.0	3.9	5.2	4.0	5.5	3.9	5.7	4.0	5.9	4.2	6.3	4.2	6.7	4.1
	35.0	5.0	3.8	5.1	3.9	5.5	3.9	5.6	4.0	5.8	4.2	6.3	4.1	6.7	4.1
	37.5	4.9	3.8	5.0	3.9	5.4	3.9	5.5	3.9	5.8	4.1	6.2	4.1	6.6	4.1
	40.0	4.8	3.8	5.0	3.9	5.3	3.9	5.4	3.9	5.7	4.1	6.2	4.1	6.6	4.0
	43.0	4.8	3.8	4.9	3.9	5.3	3.8	5.4	3.9	5.7	4.1	6.0	4.1	6.5	4.0
63 (7.1)	20.0	6.7	5.0	6.9	5.2	7.4	5.1	7.6	5.2	7.9	5.4	8.4	5.3	8.9	5.3
	22.5	6.7	5.0	6.9	5.1	7.3	5.1	7.5	5.2	7.8	5.4	8.3	5.3	8.8	5.2
	25.0	6.6	5.0	6.8	5.1	7.2	5.1	7.5	5.1	7.7	5.4	8.2	5.3	8.8	5.2
	27.5	6.5	4.9	6.7	5.0	7.2	5.0	7.4	5.1	7.7	5.3	8.2	5.3	8.5	5.1
	30.0	6.5	4.9	6.6	5.0	7.1	5.0	7.3	5.1	7.6	5.3	8.1	5.2	8.6	5.2
	32.5	6.4	4.9	6.5	5.0	7.0	4.9	7.2	5.0	7.5	5.3	8.0	5.2	8.5	5.1
	35.0	6.3	4.8	6.4	4.9	6.9	4.9	7.1	5.0	7.4	5.2	8.0	5.2	8.4	5.1
	37.5	6.2	4.8	6.4	4.9	6.8	4.9	7.0	4.9	7.3	5.2	7.8	5.1	8.4	5.1
	40.0	6.1	4.7	6.3	4.9	6.8	4.9	6.9	4.9	7.2	5.1	7.8	5.1	8.3	5.1
	43.0	6.1	4.7	6.2	4.8	6.7	4.8	6.8	4.9	7.2	5.1	7.7	5.1	8.2	5.0
80 (9.0)	20.0	8.5	6.2	8.8	6.4	9.4	6.3	9.6	6.4	10.0	6.7	10.6	6.6	11.3	6.5
	22.5	8.5	6.2	8.7	6.3	9.3	6.3	9.5	6.4	9.9	6.6	10.6	6.6	11.2	6.5
	25.0	8.4	6.1	8.6	6.3	9.2	6.3	9.5	6.3	9.8	6.6	10.4	6.5	11.1	6.4
	27.5	8.3	6.1	8.5	6.2	9.1	6.2	9.4	6.3	9.7	6.6	10.4	6.5	10.8	6.3
	30.0	8.2	6.0	8.4	6.2	9.0	6.2	9.3	6.3	9.6	6.5	10.3	6.5	10.9	6.4
	32.5	8.1	6.0	8.3	6.1	8.8	6.1	9.1	6.2	9.5	6.5	10.2	6.4	10.8	6.3
	35.0	8.0	6.0	8.1	6.1	8.8	6.1	9.0	6.1	9.4	6.4	10.1	6.4	10.7	6.3
	37.5	7.9	5.9	8.1	6.0	8.6	6.0	8.9	6.1	9.3	6.4	9.9	6.3	10.6	6.3
	40.0	7.8	5.8	8.0	6.0	8.6	6.0	8.7	6.0	9.2	6.3	9.9	6.3	10.5	6.2
	43.0	7.7	5.8	7.9	5.9	8.5	5.9	8.6	6.0	9.1	6.3	9.7	6.2	10.4	6.2
100 (11.2)	20.0	10.6	7.4	10.9	7.5	11.6	7.5	12.0	7.6	12.5	7.9	13.2	7.8	14.1	7.7
	22.5	10.5	7.3	10.8	7.5	11.5	7.4	11.9	7.5	12.3	7.8	13.2	7.7	13.9	7.6
	25.0	10.4	7.3	10.7	7.4	11.4	7.4	11.8	7.4	12.2	7.7	13.0	7.7	13.8	7.6
	27.5	10.3	7.2	10.5	7.3	11.3	7.3	11.6	7.4	12.1	7.7	12.9	7.6	13.4	7.4
	30.0	10.2	7.2	10.4	7.3	11.2	7.3	11.5	7.3	12.0	7.6	12.8	7.6	13.6	7.5
	32.5	10.1	7.1	10.3	7.2	11.0	7.2	11.3	7.2	11.9	7.6	12.7	7.5	13.4	7.4
	35.0	10.0	7.0	10.1	7.1	10.9	7.1	11.2	7.2	11.6	7.5	12.5	7.5	13.3	7.4
	37.5	9.9	7.0	10.0	7.1	10.8	7.1	11.0	7.1	11.6	7.5	12.4	7.4	13.2	7.3
	40.0	9.7	6.9	9.9	7.0	10.7	7.0	10.9	7.0	11.4	7.4	12.3	7.4	13.1	7.3
	43.0	9.6	6.9	9.8	7.0	10.5	7.0	10.8	7.0	11.3	7.3	12.1	7.3	13.0	7.2
125 (14.0)	20.0	13.2	9.1	13.7	9.4	14.6	9.3	15.0	9.4	15.6	9.8	16.5	9.6	17.6	9.5
	22.5	13.2	9.1	13.5	9.3	14.4	9.2	14.8	9.3	15.4	9.7	16.5	9.6	17.4	9.4
	25.0	13.0	9.0	13.4	9.2	14.3	9.2	14.7	9.2	15.3	9.6	16.2	9.5	17.3	9.4
	27.5	12.9	9.0	13.2	9.1	14.1	9.1	14.6	9.2	15.1	9.5	16.1	9.4	16.8	9.2
	30.0	12.7	8.9	13.0	9.0	14.0	9.0	14.4	9.1	15.0	9.5	16.0	9.4	16.9	9.2
	32.5	12.6	8.8	12.9	9.0	13.7	8.9	14.1	9.0	14.8	9.4	15.8	9.3	16.8	9.2
	35.0	12.5	8.7	12.7	8.8	13.7	8.9	14.0	8.9	14.6	9.3	15.7	9.3	16.7	9.1
	37.5	12.3	8.6	12.6	8.8	13.4	8.8	13.8	8.8	14.5	9.2	15.5	9.2	16.5	9.1
	40.0	12.1	8.5	12.4	8.7	13.4	8.7	13.6	8.7	14.3	9.2	15.4	9.1	16.4	9.0
	43.0	12.0	8.5	12.3	8.6	13.2	8.6	13.4	8.7	14.1	9.1	15.1	9.0	16.2	9.0

2.3b. Heating capacity in combination with PUHY,PURY-P450,500,550,600,650YGM

PLFY-P-VAM-E

SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
32 (3.6)	-20.0	2.1	2.0	2.0	2.0
	-15.0	2.5	2.4	2.4	2.3
	-10.0	2.9	2.8	2.7	2.6
	-5.0	3.3	3.2	3.1	2.8
	0.0	3.7	3.6	3.2	2.8
	2.5	3.8	3.8	3.2	2.8
	6.0	4.1	4.0	3.2	2.8
	7.5	4.2	4.0	3.2	2.8
	10.0	4.4	4.0	3.2	2.8
	12.5	4.6	4.0	3.2	2.8
	15.5	4.6	4.0	3.2	2.8
40 (4.5)	-20.0	2.7	2.6	2.6	2.5
	-15.0	3.1	3.0	3.0	2.9
	-10.0	3.6	3.5	3.4	3.3
	-5.0	4.1	4.0	3.9	3.5
	0.0	4.6	4.5	4.0	3.5
	2.5	4.8	4.8	4.0	3.5
	6.0	5.2	5.0	4.0	3.5
	7.5	5.3	5.0	4.0	3.5
	10.0	5.6	5.0	4.0	3.5
	12.5	5.8	5.0	4.0	3.5
	15.5	5.8	5.0	4.0	3.5
50 (5.6)	-20.0	3.3	3.2	3.2	3.2
	-15.0	3.9	3.8	3.8	3.7
	-10.0	4.5	4.4	4.3	4.2
	-5.0	5.2	5.0	4.9	4.4
	0.0	5.8	5.7	5.0	4.4
	2.5	6.0	6.0	5.0	4.4
	6.0	6.5	6.3	5.0	4.4
	7.5	6.7	6.3	5.0	4.4
	10.0	7.0	6.3	5.0	4.4
	12.5	7.3	6.3	5.0	4.4
	15.5	7.3	6.3	5.0	4.4
63 (7.1)	-20.0	4.2	4.1	4.1	4.0
	-15.0	5.0	4.8	4.8	4.6
	-10.0	5.8	5.6	5.4	5.3
	-5.0	6.6	6.4	6.2	5.6
	0.0	7.4	7.2	6.4	5.6
	2.5	7.7	7.6	6.4	5.6
	6.0	8.2	8.0	6.4	5.6
	7.5	8.5	8.0	6.4	5.6
	10.0	8.9	8.0	6.4	5.6
	12.5	9.3	8.0	6.4	5.6
	15.5	9.3	8.0	6.4	5.6
80 (9.0)	-20.0	5.3	5.1	5.1	5.0
	-15.0	6.3	6.1	6.0	5.8
	-10.0	7.2	7.0	6.8	6.6
	-5.0	8.2	8.0	7.7	7.1
	0.0	9.2	9.0	8.0	7.1
	2.5	9.6	9.5	8.0	7.1
	6.0	10.3	10.0	8.0	7.1
	7.5	10.6	10.0	8.0	7.1
	10.0	11.1	10.0	8.0	7.1
	12.5	11.6	10.0	8.0	7.1
	15.5	11.6	10.0	8.0	7.1
100 (11.2)	-20.0	6.6	6.4	6.4	6.3
	-15.0	7.8	7.6	7.5	7.3
	-10.0	9.0	8.8	8.5	8.3
	-5.0	10.3	10.0	9.6	8.8
	0.0	11.5	11.3	9.9	8.8
	2.5	12.0	11.9	9.9	8.8
	6.0	12.9	12.5	9.9	8.8
	7.5	13.3	12.5	9.9	8.8
	10.0	13.9	12.5	9.9	8.8
	12.5	14.5	12.5	9.9	8.8
	15.5	14.5	12.5	9.9	8.8
125 (14.0)	-20.0	8.5	8.2	8.2	8.0
	-15.0	10.0	9.7	9.6	9.3
	-10.0	11.5	11.2	10.9	10.6
	-5.0	13.1	12.8	12.3	11.3
	0.0	14.7	14.4	12.7	11.3
	2.5	15.4	15.2	12.7	11.3
	6.0	16.5	16.0	12.7	11.3
	7.5	17.0	16.0	12.7	11.3
	10.0	17.8	16.0	12.7	11.3
	12.5	18.6	16.0	12.7	11.3
	15.5	18.6	16.0	12.7	11.3

2.4a. Cooling capacity in combination with PUHY-P700,750,800YSGM

PLFY-P-VAM-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
32 (3.6)	20.0	3.5	2.8	3.6	2.9	3.9	2.9	4.0	3.0	4.1	3.1	4.4	3.1	4.7	3.0
	22.5	3.4	2.8	3.5	2.9	3.8	2.9	3.9	3.0	4.1	3.1	4.4	3.1	4.6	3.0
	25.0	3.4	2.8	3.5	2.9	3.7	2.9	3.9	2.9	4.0	3.1	4.2	3.0	4.5	3.0
	27.5	3.3	2.8	3.4	2.9	3.7	2.8	3.8	2.9	3.9	3.0	4.2	3.0	4.5	3.0
	30.0	3.2	2.7	3.4	2.8	3.6	2.8	3.7	2.9	3.9	3.0	4.1	3.0	4.4	2.9
	32.5	3.2	2.7	3.3	2.8	3.5	2.8	3.7	2.8	3.8	3.0	4.0	2.9	4.3	2.9
	35.0	3.1	2.7	3.2	2.8	3.5	2.8	3.6	2.8	3.7	2.9	4.0	2.9	4.2	2.9
	37.5	3.1	2.6	3.2	2.8	3.4	2.7	3.5	2.8	3.7	2.9	3.9	2.9	4.1	2.9
	40.0	3.0	2.6	3.1	2.7	3.3	2.7	3.5	2.8	3.6	2.9	3.8	2.9	4.1	2.8
	43.0	3.0	2.6	3.0	2.7	3.2	2.7	3.4	2.7	3.5	2.9	3.7	2.8	4.0	2.8
4.0 (4.5)	20.0	4.3	3.5	4.5	3.6	4.8	3.6	5.0	3.7	5.2	3.9	5.5	3.8	5.9	3.8
	22.5	4.3	3.5	4.4	3.6	4.7	3.6	4.9	3.7	5.1	3.8	5.4	3.8	5.8	3.7
	25.0	4.2	3.5	4.4	3.6	4.7	3.6	4.8	3.6	5.0	3.8	5.3	3.7	5.7	3.7
	27.5	4.1	3.4	4.3	3.5	4.6	3.5	4.7	3.6	4.9	3.7	5.2	3.7	5.6	3.7
	30.0	4.1	3.4	4.2	3.5	4.5	3.5	4.7	3.6	4.8	3.7	5.1	3.7	5.5	3.6
	32.5	4.0	3.3	4.1	3.5	4.4	3.4	4.6	3.5	4.7	3.7	5.0	3.6	5.4	3.6
	35.0	3.9	3.3	4.1	3.4	4.3	3.4	4.5	3.5	4.6	3.6	5.0	3.6	5.3	3.6
	37.5	3.8	3.3	4.0	3.4	4.3	3.4	4.4	3.5	4.6	3.6	4.9	3.6	5.2	3.5
	40.0	3.8	3.2	3.9	3.3	4.2	3.3	4.3	3.4	4.5	3.6	4.8	3.5	5.1	3.5
	43.0	3.7	3.2	3.8	3.3	4.1	3.3	4.2	3.4	4.4	3.5	4.7	3.5	5.0	3.5
50 (5.6)	20.0	5.4	4.1	5.6	4.2	6.0	4.2	6.2	4.2	6.4	4.4	6.9	4.4	7.3	4.3
	22.5	5.3	4.0	5.5	4.1	5.9	4.1	6.1	4.2	6.3	4.4	6.8	4.3	7.2	4.3
	25.0	5.3	4.0	5.4	4.1	5.8	4.1	6.0	4.2	6.2	4.3	6.6	4.3	7.1	4.2
	27.5	5.2	3.9	5.3	4.1	5.7	4.0	5.9	4.1	6.1	4.3	6.5	4.2	6.9	4.2
	30.0	5.0	3.9	5.2	4.0	5.6	4.0	5.8	4.1	6.0	4.2	6.4	4.2	6.8	4.1
	32.5	5.0	3.8	5.1	4.0	5.5	3.9	5.7	4.0	5.9	4.2	6.3	4.1	6.7	4.1
	35.0	4.9	3.8	5.0	3.9	5.4	3.9	5.6	4.0	5.8	4.1	6.2	4.1	6.6	4.0
	37.5	4.8	3.8	5.0	3.9	5.3	3.9	5.5	3.9	5.7	4.1	6.0	4.1	6.4	4.0
	40.0	4.7	3.7	4.8	3.8	5.2	3.8	5.4	3.9	5.6	4.1	5.9	4.0	6.3	4.0
	43.0	4.6	3.7	4.7	3.8	5.0	3.7	5.2	3.8	5.4	4.0	5.8	4.0	6.2	3.9
63 (7.1)	20.0	6.9	5.1	7.1	5.2	7.6	5.2	7.9	5.3	8.2	5.5	8.7	5.5	9.3	5.4
	22.5	6.7	5.0	7.0	5.2	7.5	5.2	7.8	5.3	8.0	5.5	8.6	5.4	9.1	5.3
	25.0	6.7	5.0	6.9	5.1	7.4	5.1	7.6	5.2	7.9	5.4	8.4	5.3	8.9	5.3
	27.5	6.5	4.9	6.7	5.1	7.2	5.1	7.5	5.1	7.7	5.4	8.3	5.3	8.8	5.2
	30.0	6.4	4.9	6.6	5.0	7.1	5.0	7.3	5.1	7.6	5.3	8.1	5.2	8.7	5.2
	32.5	6.3	4.8	6.5	5.0	7.0	4.9	7.2	5.0	7.5	5.2	8.0	5.2	8.5	5.1
	35.0	6.2	4.7	6.4	4.9	6.8	4.9	7.1	5.0	7.3	5.2	7.8	5.1	8.3	5.1
	37.5	6.1	4.7	6.3	4.9	6.7	4.8	7.0	4.9	7.2	5.1	7.7	5.1	8.2	5.0
	40.0	6.0	4.6	6.1	4.8	6.6	4.8	6.8	4.9	7.1	5.1	7.5	5.0	8.0	4.9
	43.0	5.8	4.6	6.0	4.7	6.4	4.7	6.6	4.8	6.9	5.0	7.3	5.0	7.8	4.9
80 (9.0)	20.0	8.7	6.3	9.0	6.5	9.7	6.5	10.0	6.6	10.4	6.8	11.1	6.8	11.7	6.7
	22.5	8.6	6.2	8.9	6.4	9.5	6.4	9.8	6.5	10.2	6.8	10.9	6.7	11.5	6.6
	25.0	8.5	6.2	8.7	6.4	9.4	6.3	9.7	6.4	10.0	6.7	10.6	6.6	11.3	6.5
	27.5	8.3	6.1	8.6	6.3	9.2	6.3	9.5	6.4	9.8	6.6	10.5	6.5	11.2	6.5
	30.0	8.1	6.0	8.4	6.2	9.0	6.2	9.3	6.3	9.6	6.5	10.3	6.5	11.0	6.4
	32.5	8.0	5.9	8.2	6.1	8.8	6.1	9.1	6.2	9.5	6.4	10.1	6.4	10.8	6.3
	35.0	7.8	5.9	8.1	6.1	8.6	6.0	9.0	6.1	9.3	6.4	9.9	6.3	10.5	6.2
	37.5	7.7	5.8	8.0	6.0	8.5	6.0	8.8	6.1	9.1	6.3	9.7	6.2	10.4	6.2
	40.0	7.6	5.7	7.7	5.9	8.3	5.9	8.6	6.0	9.0	6.2	9.5	6.2	10.1	6.1
	43.0	7.4	5.6	7.6	5.8	8.1	5.8	8.4	5.9	8.7	6.1	9.3	6.1	9.9	6.0
100 (11.2)	20.0	10.8	7.5	11.2	7.7	12.0	7.7	12.5	7.8	12.9	8.1	13.8	8.0	14.6	7.9
	22.5	10.6	7.4	11.0	7.6	11.8	7.6	12.2	7.7	12.7	8.0	13.6	7.9	14.3	7.8
	25.0	10.5	7.3	10.9	7.5	11.6	7.5	12.0	7.6	12.4	7.9	13.2	7.8	14.1	7.7
	27.5	10.3	7.2	10.6	7.4	11.4	7.4	11.8	7.5	12.2	7.7	13.0	7.7	13.9	7.6
	30.0	10.1	7.1	10.5	7.3	11.2	7.3	11.6	7.4	12.0	7.6	12.8	7.6	13.7	7.5
	32.5	9.9	7.0	10.2	7.2	11.0	7.2	11.4	7.3	11.8	7.5	12.5	7.5	13.4	7.4
	35.0	9.7	6.9	10.1	7.1	10.8	7.1	11.2	7.2	11.5	7.4	12.3	7.4	13.1	7.3
	37.5	9.6	6.8	10.0	7.1	10.6	7.0	11.0	7.1	11.4	7.4	12.1	7.3	12.9	7.2
	40.0	9.4	6.7	9.6	6.9	10.4	6.9	10.8	7.0	11.1	7.3	11.9	7.2	12.6	7.1
	43.0	9.2	6.6	9.4	6.8	10.1	6.7	10.5	6.9	10.9	7.1	11.6	7.1	12.3	7.0
125 (14.0)	20.0	13.5	9.3	14.0	9.5	15.1	9.6	15.6	9.6	16.1	10.0	17.2	9.9	18.3	9.8
	22.5	13.3	9.2	13.8	9.4	14.8	9.4	15.3	9.5	15.8	9.9	16.9	9.8	17.9	9.6
	25.0	13.2	9.1	13.6	9.3	14.6	9.3	15.1	9.4	15.5	9.7	16.5	9.6	17.6	9.5
	27.5	12.9	9.0	13.3	9.2	14.3	9.2	14.8	9.3	15.3	9.6	16.3	9.5	17.4	9.4
	30.0	12.6	8.8	13.1	9.1	14.0	9.0	14.5	9.1	15.0	9.5	16.0	9.4	17.1	9.3
	32.5	12.4	8.7	12.8	8.9	13.7	8.9	14.2	9.0	14.7	9.3	15.7	9.3	16.7	9.2
	35.0	12.2	8.6	12.6	8.8	13.4	8.8	14.0	8.9	14.4	9.2	15.4	9.1	16.4	9.0
	37.5	12.0	8.5	12.5	8.7	13.2	8.7	13.7	8.8	14.2	9.1	15.1	9.0	16.1	8.9
	40.0	11.8	8.4	12.0	8.5	13.0	8.5	13.4	8.7	13.9	9.0	14.8	8.9	15.8	8.8
	43.0	11.5	8.2	11.8	8.4	12.6	8.4	13.1	8.5	13.6	8.8	14.5	8.8	15.4	8.6

2.4b. Heating capacity in combination with PUHY-P700,750,800YSGM

PLFY-P-VAM-E

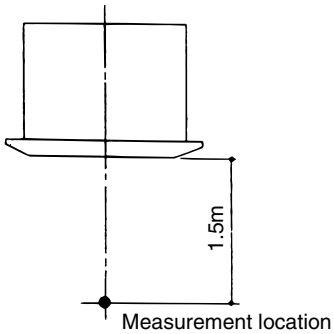
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
32 (3.6)	-20.0	2.0	2.0	2.0	2.0
	-15.0	2.4	2.4	2.4	2.3
	-10.0	2.8	2.8	2.7	2.7
	-5.0	3.2	3.2	3.1	2.9
	0.0	3.6	3.6	3.2	2.9
	2.5	3.8	3.8	3.2	2.9
	6.0	4.1	4.0	3.2	2.9
	7.5	4.2	4.0	3.2	2.9
	10.0	4.4	4.0	3.2	2.9
	12.5	4.6	4.0	3.2	2.9
	15.5	4.6	4.0	3.2	2.9
40 (4.5)	-20.0	2.5	2.5	2.5	2.5
	-15.0	3.1	3.0	3.0	2.9
	-10.0	3.6	3.5	3.4	3.4
	-5.0	4.1	4.0	3.9	3.7
	0.0	4.6	4.5	4.0	3.7
	2.5	4.8	4.7	4.0	3.7
	6.0	5.2	5.0	4.0	3.7
	7.5	5.3	5.0	4.0	3.7
	10.0	5.6	5.0	4.0	3.7
	12.5	5.8	5.0	4.0	3.7
	15.5	5.8	5.0	4.0	3.7
50 (5.6)	-20.0	3.2	3.2	3.2	3.1
	-15.0	3.8	3.8	3.7	3.7
	-10.0	4.5	4.4	4.3	4.2
	-5.0	5.1	5.0	4.9	4.6
	0.0	5.7	5.6	5.0	4.6
	2.5	6.0	5.9	5.0	4.6
	6.0	6.5	6.3	5.0	4.6
	7.5	6.7	6.3	5.0	4.6
	10.0	7.0	6.3	5.0	4.6
	12.5	7.3	6.3	5.0	4.6
	15.5	7.3	6.3	5.0	4.6
63 (7.1)	-20.0	4.0	4.0	4.0	3.9
	-15.0	4.9	4.8	4.8	4.6
	-10.0	5.7	5.6	5.4	5.4
	-5.0	6.5	6.4	6.2	5.9
	0.0	7.3	7.2	6.4	5.9
	2.5	7.7	7.5	6.4	5.9
	6.0	8.2	8.0	6.4	5.9
	7.5	8.5	8.0	6.4	5.9
	10.0	8.9	8.0	6.4	5.9
	12.5	9.3	8.0	6.4	5.9
	15.5	9.3	8.0	6.4	5.9
80 (9.0)	-20.0	5.0	5.0	5.0	4.9
	-15.0	6.1	6.0	6.0	5.8
	-10.0	7.1	7.0	6.8	6.7
	-5.0	8.1	8.0	7.7	7.4
	0.0	9.1	9.0	8.0	7.4
	2.5	9.6	9.4	8.0	7.4
	6.0	10.3	10.0	8.0	7.4
	7.5	10.6	10.0	8.0	7.4
	10.0	11.1	10.0	8.0	7.4
	12.5	11.6	10.0	8.0	7.4
	15.5	11.6	10.0	8.0	7.4
100 (11.2)	-20.0	6.3	6.3	6.3	6.1
	-15.0	7.6	7.5	7.4	7.3
	-10.0	8.9	8.8	8.5	8.4
	-5.0	10.1	10.0	9.6	9.2
	0.0	11.4	11.2	9.9	9.2
	2.5	12.0	11.8	9.9	9.2
	6.0	12.9	12.5	9.9	9.2
	7.5	13.3	12.5	9.9	9.2
	10.0	13.9	12.5	9.9	9.2
	12.5	14.5	12.5	9.9	9.2
	15.5	14.5	12.5	9.9	9.2
125 (14.0)	-20.0	8.0	8.0	8.0	7.8
	-15.0	9.8	9.6	9.5	9.3
	-10.0	11.4	11.2	10.9	10.7
	-5.0	13.0	12.8	12.3	11.8
	0.0	14.6	14.3	12.7	11.8
	2.5	15.4	15.0	12.7	11.8
	6.0	16.5	16.0	12.7	11.8
	7.5	17.0	16.0	12.7	11.8
	10.0	17.8	16.0	12.7	11.8
	12.5	18.6	16.0	12.7	11.8
	15.5	18.6	16.0	12.7	11.8

3. Sound Levels

3.1 Noise levels

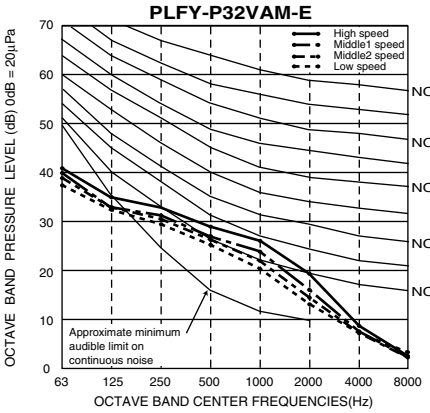
Casette ceiling (VAM-E series)

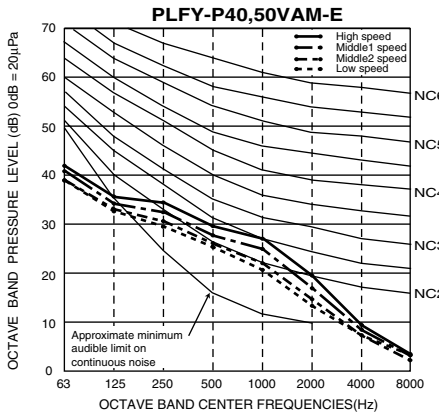


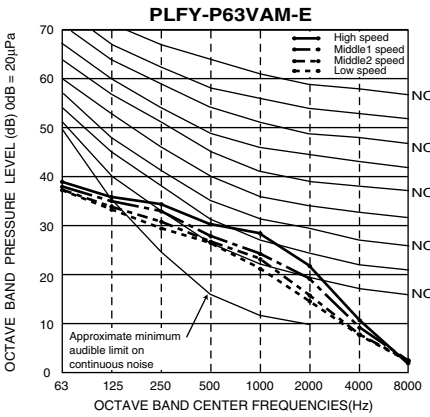
Noise level at anechoic room
(Low-Middle2-Middle1-High) Unit : dB(A)

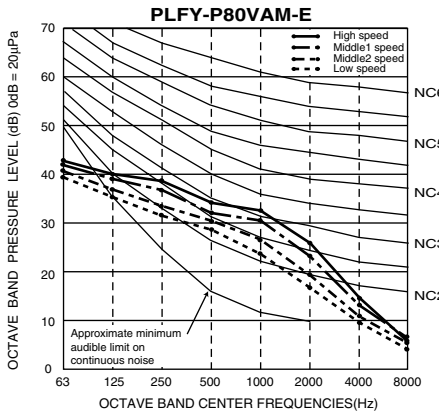
Model	Noise level (A weighted)
PLFY-P32VAM-E	27-28-29-31
PLFY-P40VAM-E PLFY-P50VAM-E	27-28-30-32
PLFY-P63VAM-E	28-29-31-33
PLFY-P80VAM-E	30-32-35-37
PLFY-P100VAM-E	33-36-39-41
PLFY-P125VAM-E	35-38-41-43

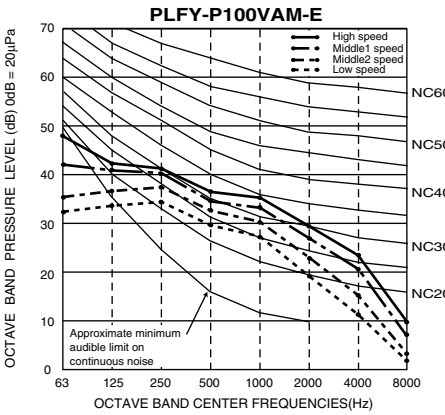
3.2 NC curves

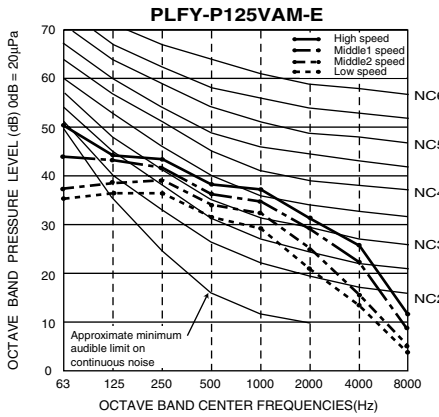








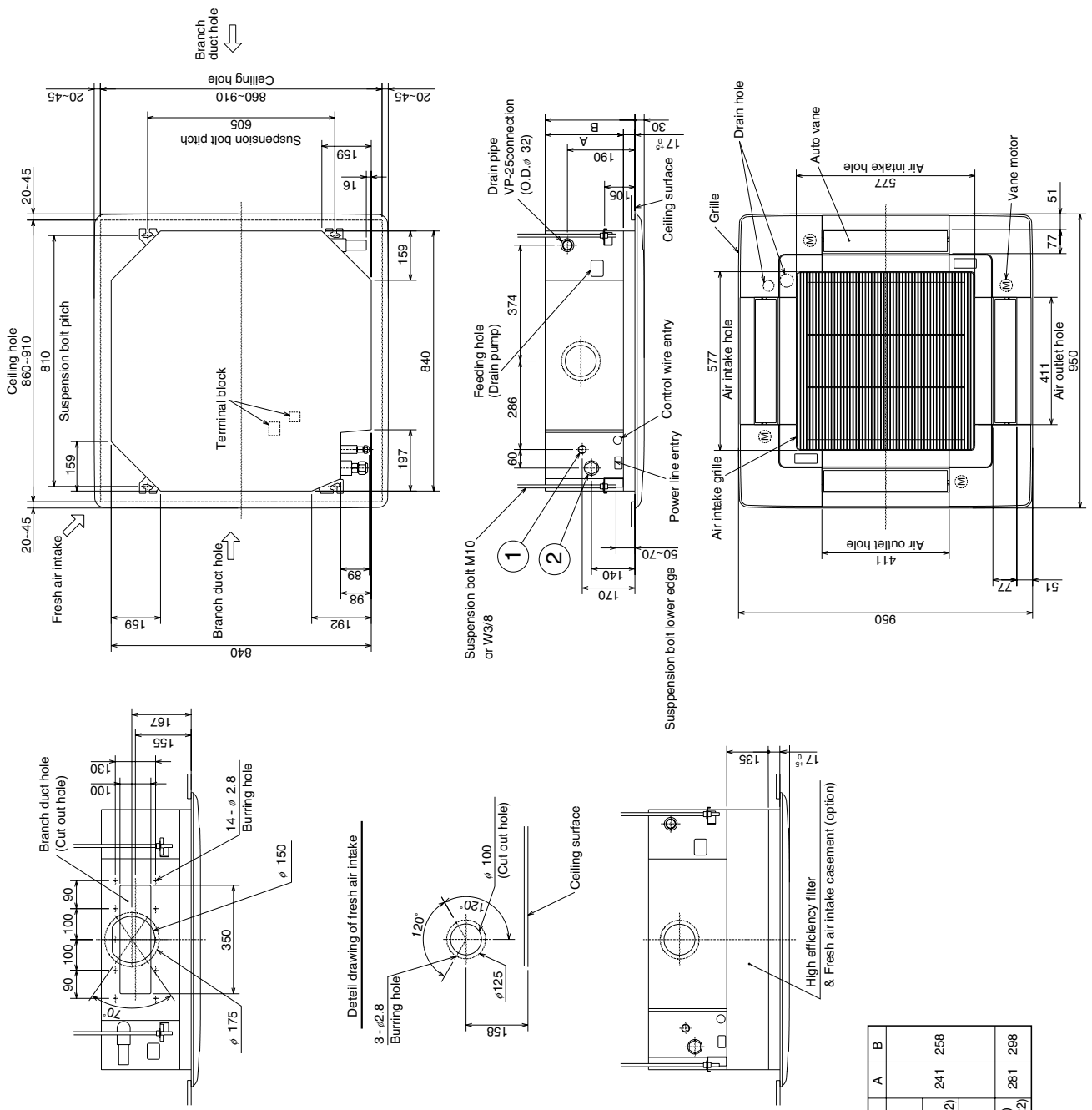




4. External Dimensions

PLFY-P32,40,50,63,80,100,125VAM-E

Unit : mm



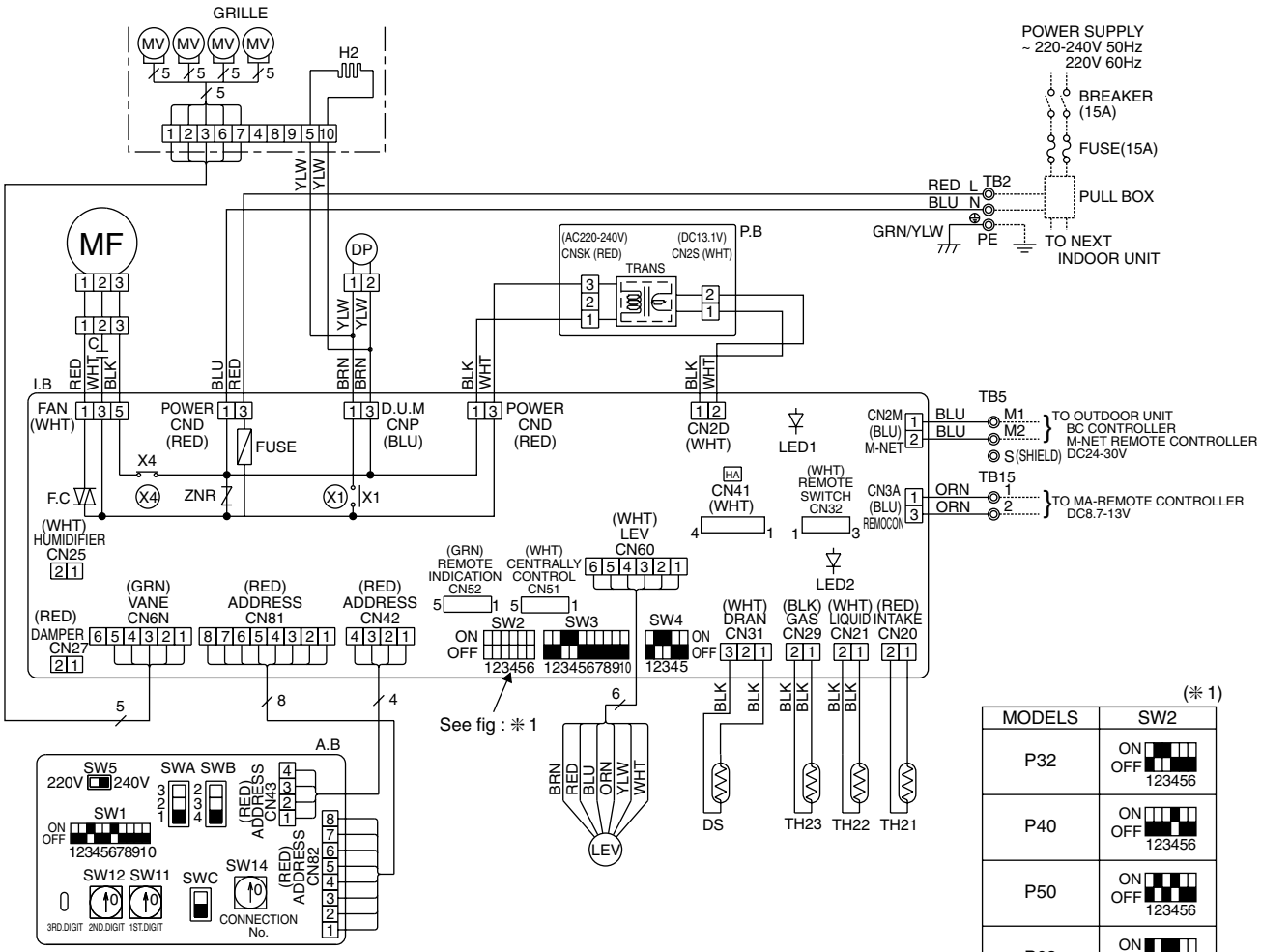
Models	① Liquid Pipe	② Gas Pipe	A	B
PLFY-P32VAM-E	ø 6.35	ø 12.7	241	258
PLFY-P40VAM-E				
PLFY-P50VAM-E	ø 6.35(R410A) ø 12.7(R407C,R22)	ø 12.7(R410A) ø15.88(R407C,R22)		
PLFY-P63VAM-E	ø 9.52	ø 15.88	281	298
PLFY-P80VAM-E				
PLFY-P100VAM-E		ø 15.88(R410A) ø19.05(R407C,R22)		
PLFY-P125VAM-E				

5. Electrical Wiring Diagrams

● PLFY-P32,40,50,63,80,100,125VAM-E

<SYMBOL EXPLANATION>

SYMBOL	NAME		SYMBOL	NAME		SYMBOL	NAME	
P.B	INDOOR POWER BOARD		C	CAPACITOR(FAN MOTOR)		TH23	THERMISTOR	PIPE TEMPERATURE DETECTION / GAS (0˚C/15kΩ, 25˚C/5.4kΩ)
I.B	INDOOR CONTROLLER BOARD		MF	FAN MOTOR(WITH INNER THERMO)				
CN25	CONNECTOR	HUMIDIFIER	MV	VANE MOTOR				
CN32		REMOTE SWITCH	DP	DRAIN WATER LIFTING-UP MACH		A.B	CIRCUIT BOARD	
CN41		HA TERMINAL-A	DS	DRAIN SENSOR		SW1	SWITCH	MODE SELECTION
CN51		CENTRALLY CONTROL	H2	DEW PREVENTION HEATER		SW5		VOLTAGE SELECTION
CN52		REMOTE INDICATION	TB2	TERMINAL BLOCK	POWER SUPPLY	SW11		ADDRESS SETTING 1ST DIGIT
SW2	SWITCH	CAPACITY CODE	TB5		TRANSMISSION	SW12		ADDRESS SETTING 2ND DIGIT
SW3		MODE SELECTION	TB15		TRANSMISSION	SW14		CONNECTION No.
SW4		MODEL SELECTION	LEV	LINEAR EXPANSION VALVE		SWA		CEILING HEIGHT SELECTOR
ZNR	VARISTOR		TH21	THERMISTOR	ROOM TEMPERATURE DETECTION (0˚C/15kΩ, 25˚C/5.4kΩ)	SWB		DISCHARGE OUTLET NUMBER SELECTOR
FUSE	FUSE (6.3A/250V)					SWC		OPTION SELECTOR
F.C	FAN PHASE CONTROL							
X1	AUX.RELAY	DRAIN PUMP	TH22		PIPE TEMPERATURE DETECTION / LIQUID (0˚C/15kΩ, 25˚C/5.4kΩ)			
X4		FAN MOTOR						
LED1	POWER SUPPLY(I.B)							
LED2	POWER SUPPLY(I.B)							



(✻1)

MODELS	SW2
P32	ON OFF 123456
P40	ON OFF 123456
P50	ON OFF 123456
P63	ON OFF 123456
P80	ON OFF 123456
P100	ON OFF 123456
P125	ON OFF 123456

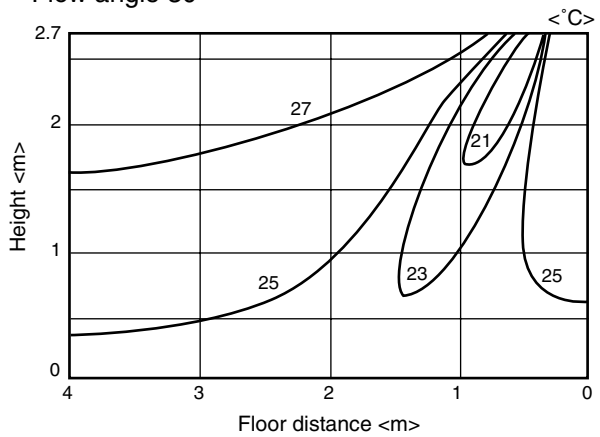
NOTE

1.At servicing for outdoor unit,always follow the wiring diagram of outdoor unit.
2.Symbol(S) of TB5 is the shield wire connection.
3.Symbols used in wiring diagram above are,◎:Terminal block, ▭▭▭:Connector.
4.The setting of the SW2 dip switches differs in the capacity for the detail, see the table below.
5.Please set the switch SW5 according to the power supply voltage.
Set SW5 to 240V side when the power supply is 230 and 240 volts.
When the power supply is 220 volts,set SW5 to 220V side.

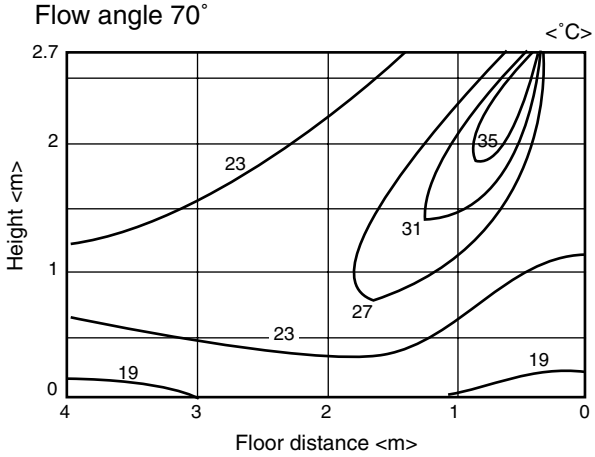
6. Temperature/Airflow distribution

6.1 Temperature distribution

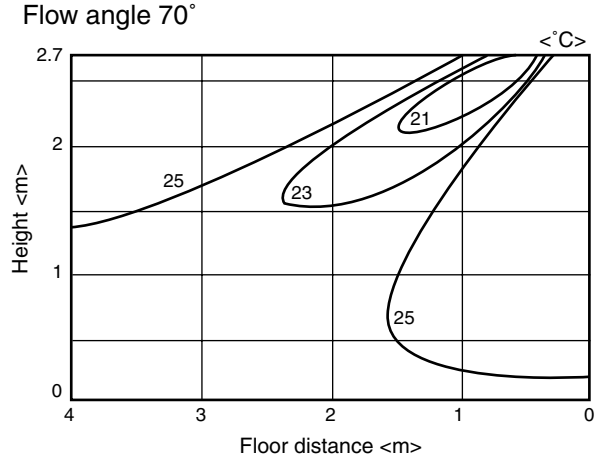
<Cooling mode>
Flow angle 30˚



<Heating mode>
Flow angle 70˚

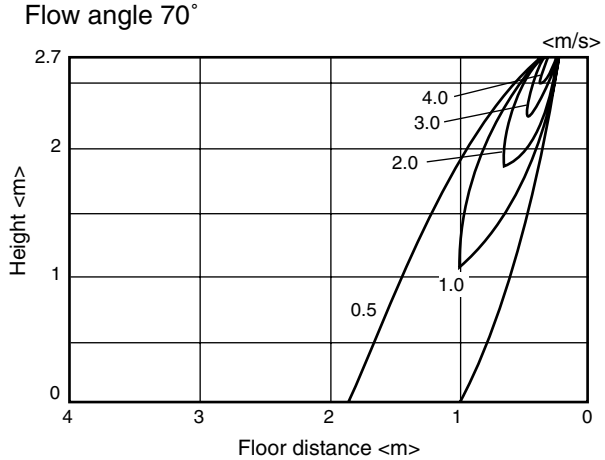


<Cooling mode>
Flow angle 70˚

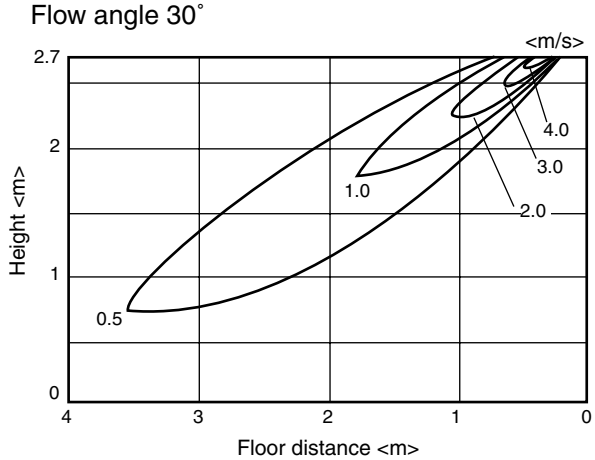


6.2 Airflow distribution

<Fan mode>
Flow angle 70˚



<Fan mode>
Flow angle 30˚



7. Options

Description	Model	Applicable capacity
Decoration panel	PLP-6AA	P32/P40/P50/P63/P80/P100/P125
Air outlet shutter plate	PAC-SG06SP-E	
High efficiency filter element	PAC-SE13KF-E (PAC-SE21TM-E is necessary to use this filter)	
	PAC-SG01KF	
Multi-function casement	PAC-SG03TM-E	

Wall mounted

PKFY-P-VAM-E
PKFY-P-VGM-E

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Model Name	20	25	32	40	50	63	71	80	100	125	140	200	250
PKFY-P-VAM-E	●	●											
PKFY-P-VGM-E			●	●	●								

1. Specifications

			PKFY-P20VAM-E	PKFY-P25VAM-E	PKFY-P32VGM-E	PKFY-P40VGM-E	PKFY-P50VGM-E
Power source			~ 220-240V 50Hz ~ 220V 60Hz				
Cooling capacity	✻1	kW	2.2	2.8	3.6	4.5	5.6
	✻1	BTU/h	7,500	9,550	12,280	15,350	19,100
	✻2	kW	2.3	2.9	3.7	4.7	5.8
	✻2	kcal/h	2,000	2,500	3,150	4,000	5,000
Heating capacity	✻1	kW	2.5	3.2	4.0	5.0	6.3
	✻1	BTU/h	8,530	10,750	13,640	17,060	21,500
	✻2	kW	2.6	3.3	4.1	5.2	6.5
	✻2	kcal/h	2,250	2,800	3,550	4,500	5,600
Power consumption	Cooling	kW	0.04		0.07		
	Heating	kW	0.04		0.07		
Current	Cooling	A	0.20		0.32		
	Heating	A	0.20		0.32		
External finish(Munsel No.)			Plastic 2.60Y 8.66/0.69		Plastic <PS,ABS> white 0.70Y 8.59/0.97		
Dimension H x W x D		mm	295 x 815 x 158		340 x 990 x 235		
Net weight		kg	8.5		16		
Heat exchanger			Cross fin (Aluminum plate fin and copper tube)				
Fan	Type		Line flow fan × 1				
	Airflow rate ✻3 (Lo-Mid2-Mid1-Hi)	m^3/min	4.9-5.2-5.6-5.9		8-9.5-10.5-11.5		9-10-11-12
	External static pressure	Pa	0				
Motor	Type		Single phase induction motor				
	Output	kW	0.017		0.030		
Air filter			PP Honeycomb (long life)				
Refrigerant pipe dimension	Gas (Flare)	mm	ø 12.7				ø 12.7 / ø 15.88 (Compatible)
	Liquid (Flare)	mm	ø 6.35				ø 6.35 / ø 9.52 (Compatible)
Drain pipe dimension			I.D. ø16 (VP-16)		I.D. ø20 (VP-20)		
Noise level (Lo-Mid2-Mid1-Hi) ✻3 ✻4		dB(A)	32-33-35-36		33-36-38-41		34-37-40-43

Note: ✻1 Cooling/Heating capacity indicates the maximum value at operation under the following condition.
Cooling : Indoor 27˚CDB/19˚CWB,Outdoor 35˚CDB
Heating : Indoor 20˚CDB,Outdoor 7˚CDB/6˚CWB

✻2 Cooling capacity indicates the maximum value at operation under the following condition.
Cooling : Indoor 27˚CDB/19.5˚CWB,Outdoor 35˚CDB (WR2: water 30˚C)
Heating : Indoor 21˚CDB,Outdoor 7˚CDB/6˚CWB (WR2: water 20˚C)

✻3 Airflow rate/noise level are in (low-middle2-middle1-high).

✻4 It is measured in anechoic room.

2. Capacity Tables

2.1a. Cooling capacity in combination with PUHY,PUY,PURY-P200,250YGM

PKFY-P-VAM-E,VGM-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.0	1.4	2.1	1.5	2.3	1.5	2.4	1.5	2.4	1.6	2.6	1.6	2.8	1.6
	22.5	2.0	1.4	2.1	1.5	2.3	1.5	2.4	1.5	2.4	1.6	2.6	1.6	2.8	1.6
	25.0	2.0	1.4	2.1	1.5	2.3	1.5	2.4	1.5	2.4	1.6	2.6	1.6	2.7	1.5
	27.5	2.0	1.4	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.6	2.5	1.5	2.7	1.5
	30.0	1.9	1.4	2.0	1.5	2.2	1.5	2.3	1.5	2.3	1.5	2.5	1.5	2.6	1.5
	32.5	1.9	1.4	2.0	1.5	2.1	1.4	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.5
	35.0	1.9	1.4	2.0	1.4	2.1	1.4	2.2	1.5	2.2	1.5	2.4	1.5	2.5	1.5
	37.5	1.8	1.4	1.9	1.4	2.0	1.4	2.1	1.4	2.2	1.5	2.3	1.5	2.5	1.4
	40.0	1.8	1.3	1.9	1.4	2.0	1.4	2.1	1.4	2.1	1.5	2.3	1.4	2.4	1.4
	43.0	1.8	1.3	1.8	1.4	2.0	1.4	2.0	1.4	2.0	1.4	2.2	1.4	2.4	1.4
25 (2.8)	20.0	2.5	1.8	2.7	1.9	2.9	1.9	3.0	1.9	3.1	2.0	3.3	2.0	3.5	2.0
	22.5	2.5	1.8	2.7	1.9	2.9	1.9	3.0	1.9	3.1	2.0	3.3	2.0	3.5	2.0
	25.0	2.5	1.8	2.7	1.9	2.9	1.9	3.0	1.9	3.1	2.0	3.3	2.0	3.5	1.9
	27.5	2.5	1.8	2.6	1.9	2.8	1.9	3.0	1.9	3.0	2.0	3.2	1.9	3.4	1.9
	30.0	2.5	1.8	2.6	1.8	2.8	1.8	2.9	1.9	3.0	1.9	3.1	1.9	3.3	1.9
	32.5	2.4	1.7	2.5	1.8	2.7	1.8	2.8	1.8	2.9	1.9	3.1	1.9	3.3	1.9
	35.0	2.4	1.7	2.5	1.8	2.7	1.8	2.8	1.8	2.8	1.9	3.0	1.9	3.2	1.8
	37.5	2.4	1.7	2.5	1.8	2.6	1.8	2.7	1.8	2.8	1.8	3.0	1.8	3.1	1.8
	40.0	2.3	1.7	2.4	1.8	2.6	1.7	2.7	1.8	2.7	1.8	2.9	1.8	3.1	1.8
	43.0	2.3	1.7	2.4	1.7	2.5	1.7	2.6	1.7	2.6	1.8	2.8	1.8	3.0	1.7
32 (3.6)	20.0	3.2	2.6	3.4	2.7	3.7	2.7	3.9	2.8	4.0	2.9	4.2	2.8	4.6	2.8
	22.5	3.2	2.6	3.4	2.7	3.7	2.7	3.9	2.8	4.0	2.9	4.2	2.8	4.6	2.8
	25.0	3.2	2.6	3.4	2.7	3.7	2.7	3.9	2.8	4.0	2.9	4.2	2.8	4.5	2.8
	27.5	3.2	2.6	3.4	2.7	3.6	2.7	3.8	2.7	3.9	2.8	4.1	2.8	4.4	2.8
	30.0	3.2	2.5	3.3	2.7	3.6	2.6	3.7	2.7	3.8	2.8	4.0	2.8	4.3	2.7
	32.5	3.1	2.5	3.3	2.6	3.5	2.6	3.7	2.7	3.7	2.8	4.0	2.7	4.2	2.7
	35.0	3.1	2.5	3.2	2.6	3.4	2.6	3.6	2.7	3.7	2.7	3.9	2.7	4.1	2.7
	37.5	3.0	2.5	3.2	2.6	3.3	2.5	3.5	2.6	3.6	2.7	3.8	2.7	4.0	2.6
	40.0	3.0	2.4	3.1	2.5	3.3	2.5	3.5	2.6	3.5	2.7	3.7	2.7	4.0	2.6
	43.0	2.9	2.4	3.0	2.5	3.2	2.5	3.3	2.6	3.3	2.6	3.6	2.6	3.9	2.6
40 (4.5)	20.0	4.0	3.1	4.3	3.2	4.6	3.2	4.9	3.3	5.0	3.4	5.3	3.4	5.7	3.4
	22.5	4.0	3.1	4.3	3.2	4.6	3.2	4.9	3.3	5.0	3.4	5.3	3.4	5.7	3.4
	25.0	4.0	3.1	4.3	3.2	4.6	3.2	4.9	3.3	5.0	3.4	5.3	3.4	5.6	3.3
	27.5	4.0	3.1	4.3	3.2	4.5	3.2	4.8	3.3	4.8	3.4	5.2	3.3	5.5	3.3
	30.0	4.0	3.0	4.2	3.2	4.5	3.2	4.7	3.2	4.8	3.3	5.0	3.3	5.4	3.3
	32.5	3.9	3.0	4.1	3.1	4.4	3.1	4.6	3.2	4.7	3.3	5.0	3.3	5.3	3.2
	35.0	3.8	3.0	4.0	3.1	4.3	3.1	4.5	3.2	4.6	3.3	4.9	3.2	5.2	3.2
	37.5	3.8	3.0	4.0	3.1	4.2	3.0	4.4	3.1	4.5	3.2	4.8	3.2	5.0	3.1
	40.0	3.7	2.9	3.9	3.0	4.1	3.0	4.3	3.1	4.4	3.2	4.7	3.1	5.0	3.1
	43.0	3.6	2.9	3.8	3.0	4.0	3.0	4.2	3.0	4.2	3.1	4.5	3.1	4.8	3.1
50 (5.6)	20.0	5.0	3.6	5.3	3.8	5.8	3.8	6.0	3.9	6.2	4.0	6.6	4.0	7.1	4.0
	22.5	5.0	3.6	5.3	3.8	5.8	3.8	6.0	3.9	6.2	4.0	6.6	4.0	7.1	4.0
	25.0	5.0	3.6	5.3	3.8	5.8	3.8	6.0	3.9	6.2	4.0	6.6	4.0	6.9	3.9
	27.5	5.0	3.6	5.3	3.8	5.7	3.8	5.9	3.9	6.0	4.0	6.4	3.9	6.8	3.9
	30.0	4.9	3.6	5.2	3.7	5.5	3.7	5.8	3.8	5.9	3.9	6.3	3.9	6.7	3.8
	32.5	4.8	3.5	5.1	3.7	5.4	3.7	5.7	3.7	5.8	3.9	6.2	3.8	6.6	3.8
	35.0	4.8	3.5	5.0	3.6	5.3	3.6	5.6	3.7	5.7	3.8	6.0	3.8	6.4	3.7
	37.5	4.7	3.5	4.9	3.6	5.2	3.6	5.5	3.6	5.5	3.7	5.9	3.7	6.3	3.7
	40.0	4.6	3.4	4.8	3.6	5.1	3.5	5.4	3.6	5.5	3.7	5.8	3.7	6.2	3.6
	43.0	4.5	3.4	4.7	3.5	5.0	3.5	5.2	3.5	5.2	3.6	5.7	3.6	6.0	3.6

2.1b. Heating capacity in combination with PUHY,PUY,PURY-P200,250YGM

PKFY-P-VAM-E,VGM-E

SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
20 (2.2)	-20.0	1.3	1.3	1.3	1.3
	-15.0	1.6	1.5	1.5	1.5
	-10.0	1.8	1.8	1.8	1.7
	-5.0	2.1	2.1	2.0	1.8
	0.0	2.4	2.4	2.0	1.8
	2.5	2.5	2.5	2.0	1.8
	6.0	2.6	2.5	2.0	1.8
	7.5	2.7	2.5	2.0	1.8
	10.0	2.9	2.5	2.0	1.8
	12.5	3.0	2.5	2.0	1.8
	15.5	3.2	2.5	2.0	1.8
25 (2.8)	-20.0	1.6	1.6	1.6	1.6
	-15.0	2.0	2.0	1.9	1.9
	-10.0	2.3	2.3	2.2	2.2
	-5.0	2.7	2.7	2.6	2.2
	0.0	3.0	3.0	2.6	2.2
	2.5	3.2	3.2	2.6	2.2
	6.0	3.3	3.2	2.6	2.2
	7.5	3.4	3.2	2.6	2.2
	10.0	3.6	3.2	2.6	2.2
	12.5	3.9	3.2	2.6	2.2
	15.5	4.1	3.2	2.6	2.2
32 (3.6)	-20.0	2.1	2.0	2.0	2.0
	-15.0	2.5	2.4	2.4	2.4
	-10.0	2.9	2.9	2.8	2.7
	-5.0	3.4	3.3	3.2	2.8
	0.0	3.8	3.8	3.2	2.8
	2.5	4.0	4.0	3.2	2.8
	6.0	4.2	4.0	3.2	2.8
	7.5	4.3	4.0	3.2	2.8
	10.0	4.6	4.0	3.2	2.8
	12.5	4.8	4.0	3.2	2.8
	15.5	5.1	4.0	3.2	2.8
40 (4.5)	-20.0	2.6	2.5	2.5	2.5
	-15.0	3.1	3.1	3.0	3.0
	-10.0	3.7	3.6	3.5	3.4
	-5.0	4.2	4.2	4.0	3.5
	0.0	4.7	4.7	4.0	3.5
	2.5	5.0	5.0	4.0	3.5
	6.0	5.2	5.0	4.0	3.5
	7.5	5.4	5.0	4.0	3.5
	10.0	5.7	5.0	4.0	3.5
	12.5	6.0	5.0	4.0	3.5
	15.5	6.4	5.0	4.0	3.5
50 (5.6)	-20.0	3.2	3.2	3.2	3.2
	-15.0	3.9	3.8	3.8	3.7
	-10.0	4.6	4.5	4.4	4.3
	-5.0	5.3	5.2	5.0	4.4
	0.0	6.0	5.9	5.0	4.4
	2.5	6.3	6.2	5.0	4.4
	6.0	6.6	6.3	5.0	4.4
	7.5	6.8	6.3	5.0	4.4
	10.0	7.2	6.3	5.0	4.4
	12.5	7.6	6.3	5.0	4.4
	15.5	8.1	6.3	5.0	4.4

2.2a. Cooling capacity in combination with PUHY,PUY,PURY-P300,350,400YGM

PKFY-P-VAM-E,VGM-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.5	2.2	1.6	2.4	1.6	2.5	1.6	2.5	1.6	2.7	1.6	2.9	1.6
	22.5	2.1	1.5	2.2	1.6	2.3	1.5	2.4	1.6	2.5	1.6	2.6	1.6	2.8	1.6
	25.0	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.4	1.6	2.6	1.6	2.8	1.5
	27.5	2.1	1.5	2.1	1.5	2.3	1.5	2.3	1.5	2.4	1.6	2.5	1.6	2.7	1.5
	30.0	2.0	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.6	2.5	1.5	2.6	1.5
	32.5	2.0	1.4	2.0	1.5	2.2	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.5
	35.0	2.0	1.4	2.0	1.4	2.1	1.4	2.2	1.5	2.3	1.5	2.4	1.5	2.5	1.5
	37.5	1.9	1.4	1.9	1.4	2.1	1.4	2.1	1.4	2.2	1.5	2.4	1.5	2.5	1.4
	40.0	1.9	1.4	1.9	1.4	2.0	1.4	2.1	1.4	2.4	1.6	2.3	1.5	2.4	1.4
	43.0	1.8	1.4	1.8	1.4	2.0	1.4	2.0	1.4	2.1	1.4	2.2	1.4	2.4	1.4
25 (2.8)	20.0	2.7	1.9	2.8	2.0	3.0	2.0	3.1	2.0	3.2	2.1	3.4	2.0	3.6	2.0
	22.5	2.7	1.9	2.8	1.9	3.0	1.9	3.1	2.0	3.2	2.0	3.4	2.0	3.6	2.0
	25.0	2.7	1.9	2.7	1.9	2.9	1.9	3.0	1.9	3.1	2.0	3.3	2.0	3.5	1.9
	27.5	2.6	1.9	2.7	1.9	2.9	1.9	3.0	1.9	3.1	2.0	3.2	1.9	3.4	1.9
	30.0	2.6	1.8	2.6	1.9	2.8	1.9	2.9	1.9	3.0	1.9	3.2	1.9	3.4	1.9
	32.5	2.5	1.8	2.6	1.8	2.8	1.8	2.9	1.9	2.9	1.9	3.1	1.9	3.3	1.9
	35.0	2.5	1.8	2.5	1.8	2.7	1.8	2.8	1.8	2.9	1.9	3.1	1.9	3.2	1.8
	37.5	2.5	1.8	2.5	1.8	2.6	1.8	2.7	1.8	2.8	1.9	3.0	1.8	3.2	1.8
	40.0	2.4	1.7	2.4	1.8	2.6	1.8	2.7	1.8	3.0	2.0	2.9	1.8	3.1	1.8
	43.0	2.4	1.7	2.4	1.7	2.5	1.7	2.6	1.7	2.7	1.8	2.8	1.8	3.0	1.8
32 (3.6)	20.0	3.5	2.7	3.6	2.8	3.9	2.8	4.0	2.8	4.2	2.9	4.4	2.9	4.7	2.9
	22.5	3.5	2.7	3.6	2.8	3.8	2.8	4.0	2.8	4.1	2.9	4.3	2.9	4.6	2.8
	25.0	3.4	2.7	3.5	2.7	3.8	2.7	3.9	2.8	4.0	2.9	4.2	2.8	4.5	2.8
	27.5	3.4	2.6	3.5	2.7	3.7	2.7	3.8	2.7	3.9	2.9	4.2	2.8	4.4	2.8
	30.0	3.3	2.6	3.4	2.7	3.6	2.7	3.7	2.7	3.9	2.8	4.1	2.8	4.3	2.7
	32.5	3.3	2.6	3.3	2.7	3.5	2.6	3.7	2.7	3.8	2.8	4.0	2.8	4.2	2.7
	35.0	3.2	2.6	3.3	2.6	3.5	2.6	3.6	2.7	3.7	2.8	3.9	2.7	4.2	2.7
	37.5	3.2	2.5	3.2	2.6	3.4	2.6	3.5	2.6	3.6	2.7	3.9	2.7	4.1	2.7
	40.0	3.1	2.5	3.1	2.6	3.3	2.5	3.4	2.6	3.9	2.8	3.8	2.7	4.0	2.6
	43.0	3.0	2.5	3.0	2.5	3.2	2.5	3.3	2.6	3.4	2.7	3.7	2.6	3.9	2.6
40 (4.5)	20.0	4.4	3.2	4.5	3.3	4.9	3.3	5.0	3.4	5.2	3.5	5.5	3.5	5.9	3.4
	22.5	4.3	3.2	4.5	3.3	4.8	3.3	5.0	3.4	5.1	3.5	5.4	3.4	5.7	3.4
	25.0	4.3	3.2	4.4	3.3	4.7	3.3	4.9	3.3	5.0	3.4	5.3	3.4	5.6	3.3
	27.5	4.2	3.2	4.3	3.2	4.6	3.2	4.8	3.3	4.9	3.4	5.2	3.4	5.5	3.3
	30.0	4.1	3.1	4.2	3.2	4.5	3.2	4.7	3.2	4.8	3.4	5.1	3.3	5.4	3.3
	32.5	4.1	3.1	4.2	3.2	4.4	3.1	4.6	3.2	4.7	3.3	5.0	3.3	5.3	3.2
	35.0	4.0	3.1	4.1	3.1	4.3	3.1	4.5	3.2	4.6	3.3	4.9	3.2	5.2	3.2
	37.5	4.0	3.0	4.0	3.1	4.3	3.1	4.4	3.1	4.5	3.3	4.8	3.2	5.1	3.2
	40.0	3.9	3.0	3.9	3.0	4.2	3.0	4.3	3.1	4.9	3.4	4.7	3.2	5.0	3.1
	43.0	3.8	3.0	3.8	3.0	4.1	3.0	4.2	3.0	4.3	3.2	4.6	3.1	4.8	3.1
50 (5.6)	20.0	5.4	3.8	5.6	4.0	6.0	4.0	6.3	4.0	6.5	4.2	6.9	4.1	7.3	4.0
	22.5	5.4	3.8	5.6	3.9	6.0	3.9	6.2	4.0	6.4	4.1	6.7	4.0	7.1	4.0
	25.0	5.3	3.8	5.5	3.9	5.9	3.9	6.0	3.9	6.2	4.0	6.6	4.0	7.0	3.9
	27.5	5.2	3.7	5.4	3.8	5.7	3.8	5.9	3.9	6.1	4.0	6.5	3.9	6.9	3.9
	30.0	5.2	3.7	5.3	3.8	5.6	3.8	5.8	3.8	6.0	3.9	6.4	3.9	6.7	3.8
	32.5	5.1	3.7	5.2	3.7	5.5	3.7	5.7	3.8	5.9	3.9	6.2	3.8	6.6	3.8
	35.0	5.0	3.6	5.1	3.7	5.4	3.6	5.6	3.7	5.8	3.8	6.1	3.8	6.5	3.7
	37.5	4.9	3.6	5.0	3.6	5.3	3.6	5.5	3.6	5.7	3.8	6.0	3.7	6.3	3.7
	40.0	4.8	3.5	4.8	3.6	5.2	3.5	5.3	3.6	6.1	4.0	5.9	3.7	6.2	3.6
	43.0	4.7	3.5	4.7	3.5	5.0	3.5	5.2	3.5	5.3	3.7	5.7	3.6	6.0	3.6

2.2b. Heating capacity in combination with PUHY,PUY,PURY-P300,350,400YGM

PKFY-P-VAM-E,VGM-E

SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
20 (2.2)	-20.0	1.3	1.3	1.3	1.2
	-15.0	1.5	1.5	1.5	1.5
	-10.0	1.8	1.8	1.7	1.6
	-5.0	2.0	2.0	1.9	1.6
	0.0	2.3	2.3	1.9	1.6
	2.5	2.4	2.4	1.9	1.6
	6.0	2.6	2.5	1.9	1.6
	7.5	2.7	2.5	1.9	1.6
	10.0	2.8	2.5	1.9	1.6
	12.5	2.9	2.5	1.9	1.6
	15.5	2.9	2.5	1.9	1.6
25 (2.8)	-20.0	1.7	1.6	1.6	1.5
	-15.0	1.9	1.9	1.9	1.9
	-10.0	2.2	2.2	2.2	2.0
	-5.0	2.6	2.6	2.4	2.0
	0.0	2.9	2.9	2.4	2.0
	2.5	3.1	3.0	2.4	2.0
	6.0	3.3	3.2	2.4	2.0
	7.5	3.4	3.2	2.4	2.0
	10.0	3.5	3.2	2.4	2.0
	12.5	3.7	3.2	2.4	2.0
	15.5	3.7	3.2	2.4	2.0
32 (3.6)	-20.0	2.1	2.0	2.0	1.9
	-15.0	2.4	2.4	2.4	2.3
	-10.0	2.8	2.8	2.7	2.6
	-5.0	3.2	3.2	3.0	2.6
	0.0	3.6	3.6	3.0	2.6
	2.5	3.8	3.8	3.0	2.6
	6.0	4.1	4.0	3.0	2.6
	7.5	4.2	4.0	3.0	2.6
	10.0	4.4	4.0	3.0	2.6
	12.5	4.6	4.0	3.0	2.6
	15.5	4.6	4.0	3.0	2.6
40 (4.5)	-20.0	2.6	2.5	2.5	2.4
	-15.0	3.0	3.0	3.0	2.9
	-10.0	3.5	3.5	3.4	3.2
	-5.0	4.0	4.0	3.8	3.2
	0.0	4.5	4.5	3.8	3.2
	2.5	4.8	4.7	3.8	3.2
	6.0	5.1	5.0	3.8	3.2
	7.5	5.3	5.0	3.8	3.2
	10.0	5.5	5.0	3.8	3.2
	12.5	5.8	5.0	3.8	3.2
	15.5	5.8	5.0	3.8	3.2
50 (5.6)	-20.0	3.3	3.2	3.2	3.0
	-15.0	3.8	3.8	3.8	3.7
	-10.0	4.4	4.4	4.3	4.0
	-5.0	5.0	5.0	4.7	4.0
	0.0	5.7	5.7	4.7	4.0
	2.5	6.0	6.0	4.7	4.0
	6.0	6.5	6.3	4.7	4.0
	7.5	6.7	6.3	4.7	4.0
	10.0	7.0	6.3	4.7	4.0
	12.5	7.2	6.3	4.7	4.0
	15.5	7.2	6.3	4.7	4.0

2.3a. Cooling capacity in combination with PUHY,PURY-P450,500,550,600,650YGM

PKFY-P-VAM-E,VGM-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.5	2.1	1.5	2.3	1.5	2.4	1.5	2.5	1.6	2.6	1.6	2.8	1.6
	22.5	2.1	1.5	2.1	1.5	2.3	1.5	2.3	1.5	2.4	1.6	2.6	1.6	2.7	1.5
	25.0	2.0	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.6	2.6	1.6	2.7	1.5
	27.5	2.0	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.6	2.5	1.5	2.6	1.5
	30.0	2.0	1.4	2.0	1.5	2.2	1.5	2.3	1.5	2.4	1.6	2.5	1.5	2.7	1.5
	32.5	2.0	1.4	2.0	1.5	2.2	1.5	2.2	1.5	2.3	1.5	2.5	1.5	2.6	1.5
	35.0	2.0	1.4	2.0	1.4	2.1	1.4	2.2	1.5	2.3	1.5	2.5	1.5	2.6	1.5
	37.5	1.9	1.4	2.0	1.4	2.1	1.4	2.2	1.4	2.3	1.5	2.4	1.5	2.6	1.5
	40.0	1.9	1.4	1.9	1.4	2.1	1.4	2.1	1.4	2.2	1.5	2.4	1.5	2.6	1.5
	43.0	1.9	1.4	1.9	1.4	2.1	1.4	2.1	1.4	2.2	1.5	2.4	1.5	2.6	1.5
25 (2.8)	20.0	2.6	1.9	2.7	1.9	2.9	1.9	3.0	1.9	3.1	2.0	3.3	2.0	3.5	1.9
	22.5	2.6	1.9	2.7	1.9	2.9	1.9	3.0	1.9	3.1	2.0	3.3	2.0	3.5	1.9
	25.0	2.6	1.8	2.7	1.9	2.9	1.9	2.9	1.9	3.1	2.0	3.2	1.9	3.5	1.9
	27.5	2.6	1.8	2.6	1.9	2.8	1.9	2.9	1.9	3.0	2.0	3.2	1.9	3.4	1.9
	30.0	2.5	1.8	2.6	1.8	2.8	1.8	2.9	1.9	3.0	1.9	3.2	1.9	3.4	1.9
	32.5	2.5	1.8	2.6	1.8	2.7	1.8	2.8	1.8	3.0	1.9	3.2	1.9	3.4	1.9
	35.0	2.5	1.8	2.5	1.8	2.7	1.8	2.8	1.8	2.9	1.9	3.1	1.9	3.3	1.9
	37.5	2.5	1.8	2.5	1.8	2.7	1.8	2.8	1.8	2.9	1.9	3.1	1.9	3.3	1.9
	40.0	2.4	1.7	2.5	1.8	2.7	1.8	2.7	1.8	2.9	1.9	3.1	1.9	3.3	1.9
	43.0	2.4	1.7	2.5	1.8	2.6	1.8	2.7	1.8	2.8	1.9	3.0	1.9	3.2	1.8
32 (3.6)	20.0	3.4	2.7	3.5	2.7	3.7	2.7	3.9	2.8	4.0	2.9	4.2	2.8	4.5	2.8
	22.5	3.4	2.6	3.5	2.7	3.7	2.7	3.8	2.7	4.0	2.9	4.2	2.8	4.5	2.8
	25.0	3.3	2.6	3.4	2.7	3.7	2.7	3.8	2.7	3.9	2.9	4.2	2.8	4.4	2.8
	27.5	3.3	2.6	3.4	2.7	3.6	2.7	3.7	2.7	3.9	2.8	4.1	2.8	4.3	2.7
	30.0	3.3	2.6	3.3	2.7	3.6	2.7	3.7	2.7	3.9	2.8	4.1	2.8	4.4	2.8
	32.5	3.2	2.6	3.3	2.6	3.5	2.6	3.6	2.7	3.8	2.8	4.1	2.8	4.3	2.7
	35.0	3.2	2.6	3.3	2.6	3.5	2.6	3.6	2.7	3.7	2.8	4.0	2.8	4.3	2.7
	37.5	3.2	2.5	3.2	2.6	3.5	2.6	3.5	2.6	3.7	2.8	4.0	2.7	4.2	2.7
	40.0	3.1	2.5	3.2	2.6	3.4	2.6	3.5	2.6	3.7	2.8	4.0	2.7	4.2	2.7
	43.0	3.1	2.5	3.2	2.6	3.4	2.6	3.5	2.6	3.6	2.7	3.9	2.7	4.2	2.7
40 (4.5)	20.0	4.3	3.2	4.4	3.3	4.7	3.3	4.8	3.3	5.0	3.4	5.3	3.4	5.7	3.4
	22.5	4.2	3.2	4.3	3.3	4.6	3.2	4.8	3.3	5.0	3.4	5.3	3.4	5.6	3.3
	25.0	4.2	3.2	4.3	3.2	4.6	3.2	4.7	3.3	4.9	3.4	5.2	3.4	5.6	3.3
	27.5	4.1	3.1	4.2	3.2	4.5	3.2	4.7	3.2	4.9	3.4	5.2	3.3	5.4	3.3
	30.0	4.1	3.1	4.2	3.2	4.5	3.2	4.6	3.2	4.8	3.4	5.1	3.3	5.4	3.3
	32.5	4.1	3.1	4.1	3.2	4.4	3.1	4.5	3.2	4.8	3.3	5.1	3.3	5.4	3.3
	35.0	4.0	3.1	4.1	3.1	4.4	3.1	4.5	3.2	4.7	3.3	5.0	3.3	5.4	3.2
	37.5	4.0	3.0	4.0	3.1	4.3	3.1	4.4	3.1	4.7	3.3	5.0	3.3	5.3	3.2
	40.0	3.9	3.0	4.0	3.1	4.3	3.1	4.4	3.1	4.6	3.3	5.0	3.3	5.3	3.2
	43.0	3.9	3.0	3.9	3.1	4.2	3.1	4.3	3.1	4.5	3.3	4.9	3.2	5.2	3.2
50 (5.6)	20.0	5.3	3.8	5.5	3.9	5.8	3.8	6.0	3.9	6.2	4.1	6.6	4.0	7.1	3.9
	22.5	5.3	3.8	5.4	3.8	5.8	3.8	5.9	3.9	6.2	4.0	6.6	4.0	7.0	3.9
	25.0	5.2	3.7	5.3	3.8	5.7	3.8	5.9	3.8	6.1	4.0	6.5	3.9	6.9	3.9
	27.5	5.2	3.7	5.3	3.8	5.7	3.8	5.8	3.8	6.0	4.0	6.4	3.9	6.7	3.8
	30.0	5.1	3.7	5.2	3.7	5.6	3.7	5.8	3.8	6.0	3.9	6.4	3.9	6.8	3.8
	32.5	5.0	3.6	5.2	3.7	5.5	3.7	5.7	3.7	5.9	3.9	6.3	3.9	6.7	3.8
	35.0	5.0	3.6	5.1	3.7	5.5	3.7	5.6	3.7	5.8	3.9	6.3	3.9	6.7	3.8
	37.5	4.9	3.6	5.0	3.7	5.4	3.6	5.5	3.7	5.8	3.9	6.2	3.8	6.6	3.8
	40.0	4.8	3.5	5.0	3.6	5.3	3.6	5.4	3.6	5.7	3.8	6.2	3.8	6.6	3.8
	43.0	4.8	3.5	4.9	3.6	5.3	3.6	5.4	3.6	5.7	3.8	6.0	3.8	6.5	3.7

2.3b. Heating capacity in combination with PUHY,PURY-P450,500,550,600,650YGM

PKFY-P-VAM-E,VGM-E

SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
20 (2.2)	-20.0	1.3	1.3	1.3	1.3
	-15.0	1.6	1.5	1.5	1.5
	-10.0	1.8	1.8	1.7	1.7
	-5.0	2.1	2.0	1.9	1.8
	0.0	2.3	2.3	2.0	1.8
	2.5	2.4	2.4	2.0	1.8
	6.0	2.6	2.5	2.0	1.8
	7.5	2.7	2.5	2.0	1.8
	10.0	2.8	2.5	2.0	1.8
	12.5	2.9	2.5	2.0	1.8
	15.5	2.9	2.5	2.0	1.8
25 (2.8)	-20.0	1.7	1.6	1.6	1.6
	-15.0	2.0	1.9	1.9	1.9
	-10.0	2.3	2.2	2.2	2.1
	-5.0	2.6	2.6	2.5	2.3
	0.0	2.9	2.9	2.5	2.3
	2.5	3.1	3.0	2.5	2.3
	6.0	3.3	3.2	2.5	2.3
	7.5	3.4	3.2	2.5	2.3
	10.0	3.6	3.2	2.5	2.3
	12.5	3.7	3.2	2.5	2.3
	15.5	3.7	3.2	2.5	2.3
32 (3.6)	-20.0	2.1	2.0	2.0	2.0
	-15.0	2.5	2.4	2.4	2.3
	-10.0	2.9	2.8	2.7	2.6
	-5.0	3.3	3.2	3.1	2.8
	0.0	3.7	3.6	3.2	2.8
	2.5	3.8	3.8	3.2	2.8
	6.0	4.1	4.0	3.2	2.8
	7.5	4.2	4.0	3.2	2.8
	10.0	4.4	4.0	3.2	2.8
	12.5	4.6	4.0	3.2	2.8
	15.5	4.6	4.0	3.2	2.8
40 (4.5)	-20.0	2.7	2.6	2.6	2.5
	-15.0	3.1	3.0	3.0	2.9
	-10.0	3.6	3.5	3.4	3.3
	-5.0	4.1	4.0	3.9	3.5
	0.0	4.6	4.5	4.0	3.5
	2.5	4.8	4.8	4.0	3.5
	6.0	5.2	5.0	4.0	3.5
	7.5	5.3	5.0	4.0	3.5
	10.0	5.6	5.0	4.0	3.5
	12.5	5.8	5.0	4.0	3.5
	15.5	5.8	5.0	4.0	3.5
50 (5.6)	-20.0	3.3	3.2	3.2	3.2
	-15.0	3.9	3.8	3.8	3.7
	-10.0	4.5	4.4	4.3	4.2
	-5.0	5.2	5.0	4.9	4.4
	0.0	5.8	5.7	5.0	4.4
	2.5	6.0	6.0	5.0	4.4
	6.0	6.5	6.3	5.0	4.4
	7.5	6.7	6.3	5.0	4.4
	10.0	7.0	6.3	5.0	4.4
	12.5	7.3	6.3	5.0	4.4
	15.5	7.3	6.3	5.0	4.4

2.4a. Cooling capacity in combination with PUHY-P700,750,800YSGM

PKFY-P-VAM-E,VGM-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.5	2.2	1.6	2.4	1.5	2.4	1.6	2.5	1.6	2.7	1.6	2.9	1.6
	22.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.5	1.6	2.7	1.6	2.8	1.6
	25.0	2.1	1.5	2.1	1.5	2.3	1.5	2.4	1.5	2.4	1.6	2.6	1.6	2.8	1.6
	27.5	2.0	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.6	2.6	1.6	2.7	1.5
	30.0	2.0	1.4	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.6	2.5	1.5	2.7	1.5
	32.5	1.9	1.4	2.0	1.5	2.2	1.5	2.2	1.5	2.3	1.5	2.5	1.5	2.6	1.5
	35.0	1.9	1.4	2.0	1.4	2.1	1.4	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.5
	37.5	1.9	1.4	2.0	1.4	2.1	1.4	2.2	1.4	2.2	1.5	2.4	1.5	2.5	1.5
	40.0	1.8	1.4	1.9	1.4	2.0	1.4	2.1	1.4	2.2	1.5	2.3	1.5	2.5	1.4
	43.0	1.8	1.3	1.8	1.4	2.0	1.4	2.1	1.4	2.1	1.5	2.3	1.4	2.4	1.4
25 (2.8)	20.0	2.7	1.9	2.8	1.9	3.0	1.9	3.1	2.0	3.2	2.0	3.4	2.0	3.7	2.0
	22.5	2.7	1.9	2.8	1.9	3.0	1.9	3.1	1.9	3.2	2.0	3.4	2.0	3.6	2.0
	25.0	2.6	1.9	2.7	1.9	2.9	1.9	3.0	1.9	3.1	2.0	3.3	2.0	3.5	1.9
	27.5	2.6	1.8	2.7	1.9	2.9	1.9	3.0	1.9	3.1	2.0	3.3	2.0	3.5	1.9
	30.0	2.5	1.8	2.6	1.9	2.8	1.8	2.9	1.9	3.0	1.9	3.2	1.9	3.4	1.9
	32.5	2.5	1.8	2.6	1.8	2.7	1.8	2.8	1.8	2.9	1.9	3.1	1.9	3.3	1.9
	35.0	2.4	1.8	2.5	1.8	2.7	1.8	2.8	1.8	2.9	1.9	3.1	1.9	3.3	1.9
	37.5	2.4	1.7	2.5	1.8	2.6	1.8	2.7	1.8	2.8	1.9	3.0	1.9	3.2	1.8
	40.0	2.4	1.7	2.4	1.8	2.6	1.8	2.7	1.8	2.8	1.9	3.0	1.8	3.2	1.8
	43.0	2.3	1.7	2.4	1.7	2.5	1.7	2.6	1.7	2.7	1.8	2.9	1.8	3.1	1.8
32 (3.6)	20.0	3.5	2.7	3.6	2.8	3.9	2.8	4.0	2.8	4.1	2.9	4.4	2.9	4.7	2.9
	22.5	3.4	2.7	3.5	2.8	3.8	2.7	3.9	2.8	4.1	2.9	4.4	2.9	4.6	2.8
	25.0	3.4	2.6	3.5	2.7	3.7	2.7	3.9	2.8	4.0	2.9	4.2	2.8	4.5	2.8
	27.5	3.3	2.6	3.4	2.7	3.7	2.7	3.8	2.7	3.9	2.9	4.2	2.8	4.5	2.8
	30.0	3.2	2.6	3.4	2.7	3.6	2.7	3.7	2.7	3.9	2.8	4.1	2.8	4.4	2.8
	32.5	3.2	2.5	3.3	2.6	3.5	2.6	3.7	2.7	3.8	2.8	4.0	2.8	4.3	2.7
	35.0	3.1	2.5	3.2	2.6	3.5	2.6	3.6	2.7	3.7	2.8	4.0	2.7	4.2	2.7
	37.5	3.1	2.5	3.2	2.6	3.4	2.6	3.5	2.6	3.7	2.7	3.9	2.7	4.1	2.7
	40.0	3.0	2.5	3.1	2.5	3.3	2.5	3.5	2.6	3.6	2.7	3.8	2.7	4.1	2.6
	43.0	3.0	2.4	3.0	2.5	3.2	2.5	3.4	2.6	3.5	2.7	3.7	2.7	4.0	2.6
40 (4.5)	20.0	4.3	3.2	4.5	3.3	4.8	3.3	5.0	3.4	5.2	3.5	5.5	3.5	5.9	3.4
	22.5	4.3	3.2	4.4	3.3	4.7	3.3	4.9	3.3	5.1	3.5	5.4	3.5	5.8	3.4
	25.0	4.2	3.2	4.4	3.3	4.7	3.3	4.8	3.3	5.0	3.4	5.3	3.4	5.7	3.4
	27.5	4.1	3.1	4.3	3.2	4.6	3.2	4.7	3.3	4.9	3.4	5.2	3.4	5.6	3.3
	30.0	4.1	3.1	4.2	3.2	4.5	3.2	4.7	3.2	4.8	3.4	5.1	3.3	5.5	3.3
	32.5	4.0	3.1	4.1	3.1	4.4	3.1	4.6	3.2	4.7	3.3	5.0	3.3	5.4	3.3
	35.0	3.9	3.0	4.1	3.1	4.3	3.1	4.5	3.2	4.6	3.3	5.0	3.3	5.3	3.2
	37.5	3.8	3.0	4.0	3.1	4.3	3.1	4.4	3.1	4.6	3.3	4.9	3.2	5.2	3.2
	40.0	3.8	3.0	3.9	3.0	4.2	3.0	4.3	3.1	4.5	3.2	4.8	3.2	5.1	3.1
	43.0	3.7	2.9	3.8	3.0	4.1	3.0	4.2	3.0	4.4	3.2	4.7	3.1	5.0	3.1
50 (5.6)	20.0	5.4	3.8	5.6	3.9	6.0	3.9	6.2	4.0	6.4	4.1	6.9	4.1	7.3	4.0
	22.5	5.3	3.8	5.5	3.9	5.9	3.9	6.1	3.9	6.3	4.1	6.8	4.1	7.2	4.0
	25.0	5.3	3.8	5.4	3.9	5.8	3.8	6.0	3.9	6.2	4.0	6.6	4.0	7.1	3.9
	27.5	5.2	3.7	5.3	3.8	5.7	3.8	5.9	3.8	6.1	4.0	6.5	4.0	6.9	3.9
	30.0	5.0	3.6	5.2	3.8	5.6	3.7	5.8	3.8	6.0	3.9	6.4	3.9	6.8	3.9
	32.5	5.0	3.6	5.1	3.7	5.5	3.7	5.7	3.7	5.9	3.9	6.3	3.9	6.7	3.8
	35.0	4.9	3.6	5.0	3.7	5.4	3.6	5.6	3.7	5.8	3.8	6.2	3.8	6.6	3.8
	37.5	4.8	3.5	5.0	3.6	5.3	3.6	5.5	3.7	5.7	3.8	6.0	3.8	6.4	3.7
	40.0	4.7	3.5	4.8	3.6	5.2	3.5	5.4	3.6	5.6	3.8	5.9	3.7	6.3	3.7
	43.0	4.6	3.4	4.7	3.5	5.0	3.5	5.2	3.5	5.4	3.7	5.8	3.7	6.2	3.6

2.4b. Heating capacity in combination with PUHY-P700,750,800YSGM

PKFY-P-VAM-E,VGM-E

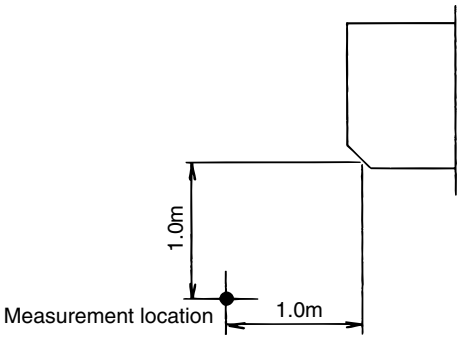
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
20 (2.2)	-20.0	1.3	1.3	1.3	1.2
	-15.0	1.5	1.5	1.5	1.5
	-10.0	1.8	1.8	1.7	1.7
	-5.0	2.0	2.0	1.9	1.8
	0.0	2.3	2.2	2.0	1.8
	2.5	2.4	2.4	2.0	1.8
	6.0	2.6	2.5	2.0	1.8
	7.5	2.7	2.5	2.0	1.8
	10.0	2.8	2.5	2.0	1.8
	12.5	2.9	2.5	2.0	1.8
	15.5	2.9	2.5	2.0	1.8
25 (2.8)	-20.0	1.6	1.6	1.6	1.6
	-15.0	2.0	1.9	1.9	1.9
	-10.0	2.3	2.2	2.2	2.1
	-5.0	2.6	2.6	2.5	2.4
	0.0	2.9	2.9	2.5	2.4
	2.5	3.1	3.0	2.5	2.4
	6.0	3.3	3.2	2.5	2.4
	7.5	3.4	3.2	2.5	2.4
	10.0	3.6	3.2	2.5	2.4
	12.5	3.7	3.2	2.5	2.4
	15.5	3.7	3.2	2.5	2.4
32 (3.6)	-20.0	2.0	2.0	2.0	2.0
	-15.0	2.4	2.4	2.4	2.3
	-10.0	2.8	2.8	2.7	2.7
	-5.0	3.2	3.2	3.1	2.9
	0.0	3.6	3.6	3.2	2.9
	2.5	3.8	3.8	3.2	2.9
	6.0	4.1	4.0	3.2	2.9
	7.5	4.2	4.0	3.2	2.9
	10.0	4.4	4.0	3.2	2.9
	12.5	4.6	4.0	3.2	2.9
	15.5	4.6	4.0	3.2	2.9
40 (4.5)	-20.0	2.5	2.5	2.5	2.5
	-15.0	3.1	3.0	3.0	2.9
	-10.0	3.6	3.5	3.4	3.4
	-5.0	4.1	4.0	3.9	3.7
	0.0	4.6	4.5	4.0	3.7
	2.5	4.8	4.7	4.0	3.7
	6.0	5.2	5.0	4.0	3.7
	7.5	5.3	5.0	4.0	3.7
	10.0	5.6	5.0	4.0	3.7
	12.5	5.8	5.0	4.0	3.7
	15.5	5.8	5.0	4.0	3.7
50 (5.6)	-20.0	3.2	3.2	3.2	3.1
	-15.0	3.8	3.8	3.7	3.7
	-10.0	4.5	4.4	4.3	4.2
	-5.0	5.1	5.0	4.9	4.6
	0.0	5.7	5.6	5.0	4.6
	2.5	6.0	5.9	5.0	4.6
	6.0	6.5	6.3	5.0	4.6
	7.5	6.7	6.3	5.0	4.6
	10.0	7.0	6.3	5.0	4.6
	12.5	7.3	6.3	5.0	4.6
	15.5	7.3	6.3	5.0	4.6

3. Sound Levels

3.1 Noise levels

Wall mounted

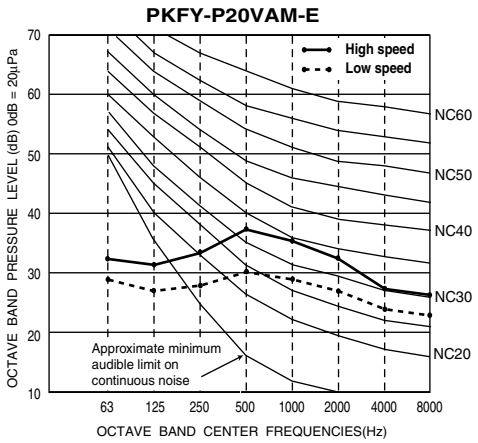


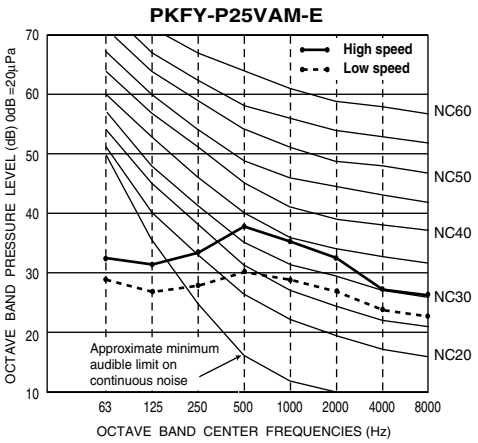
Noise level at anechoic room
(Low-Middle2-Middle1-High)

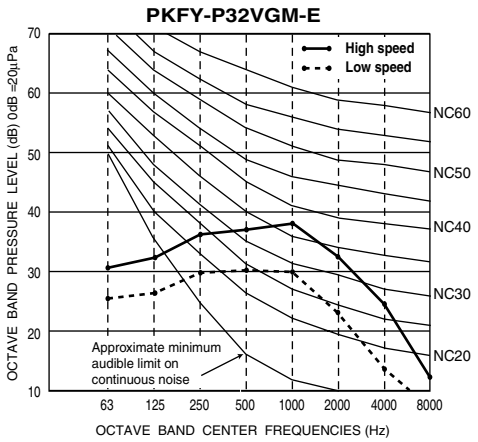
Unit : dB(A)

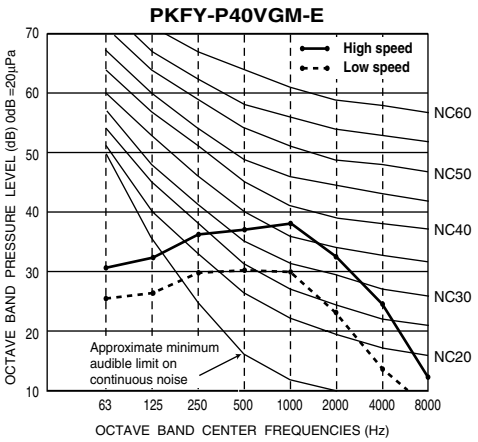
Model	Noise level (A weighted)
PKFY-P20VAM-E PKFY-P25VAM-E	32-33-35-36
PKFY-P32VGM-E PKFY-P40VGM-E	33-36-38-41
PKFY-P50VGM-E	34-37-40-43

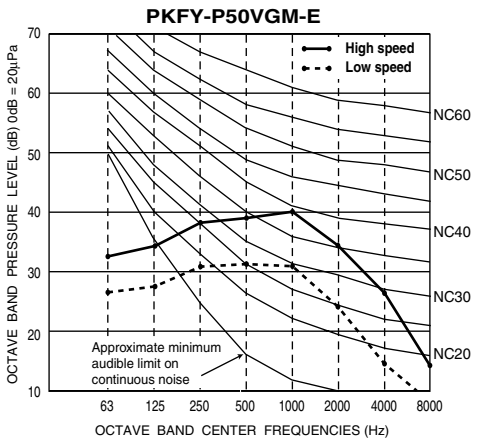
3.2 NC curves







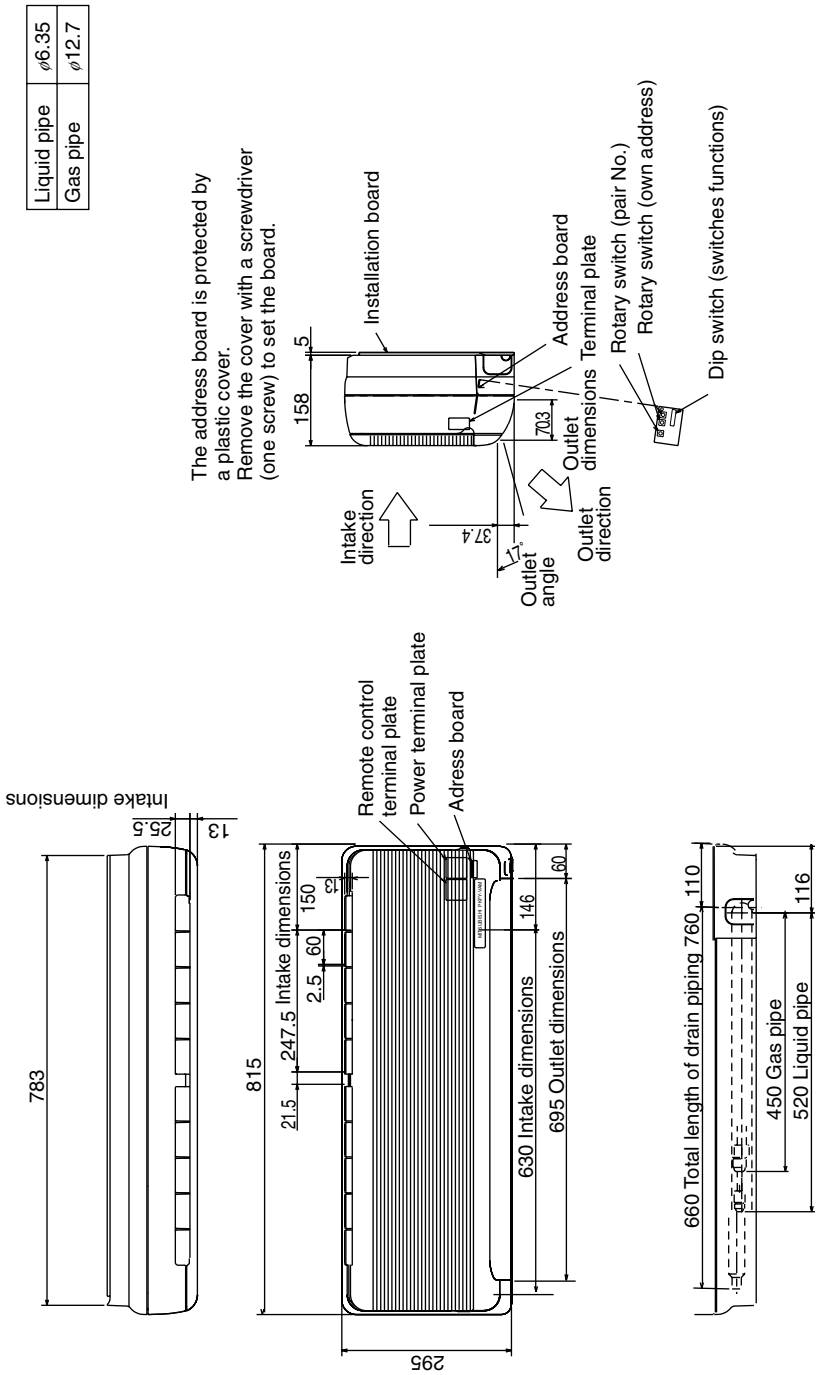




4. External Dimensions

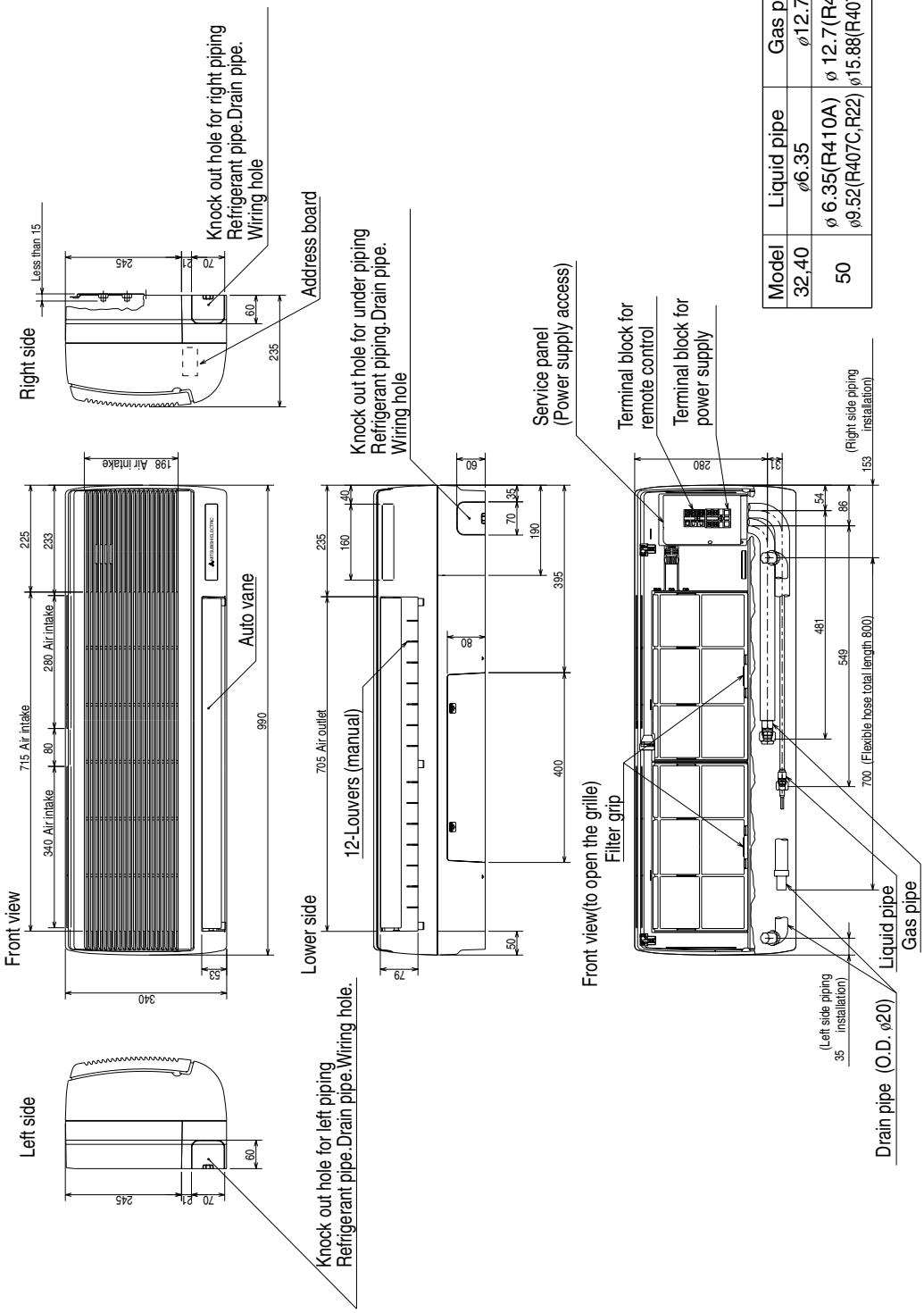
PKFY-P20, 25VAM-E

Unit : mm



PKFY-P32,40,50VGM-E

Unit : mm



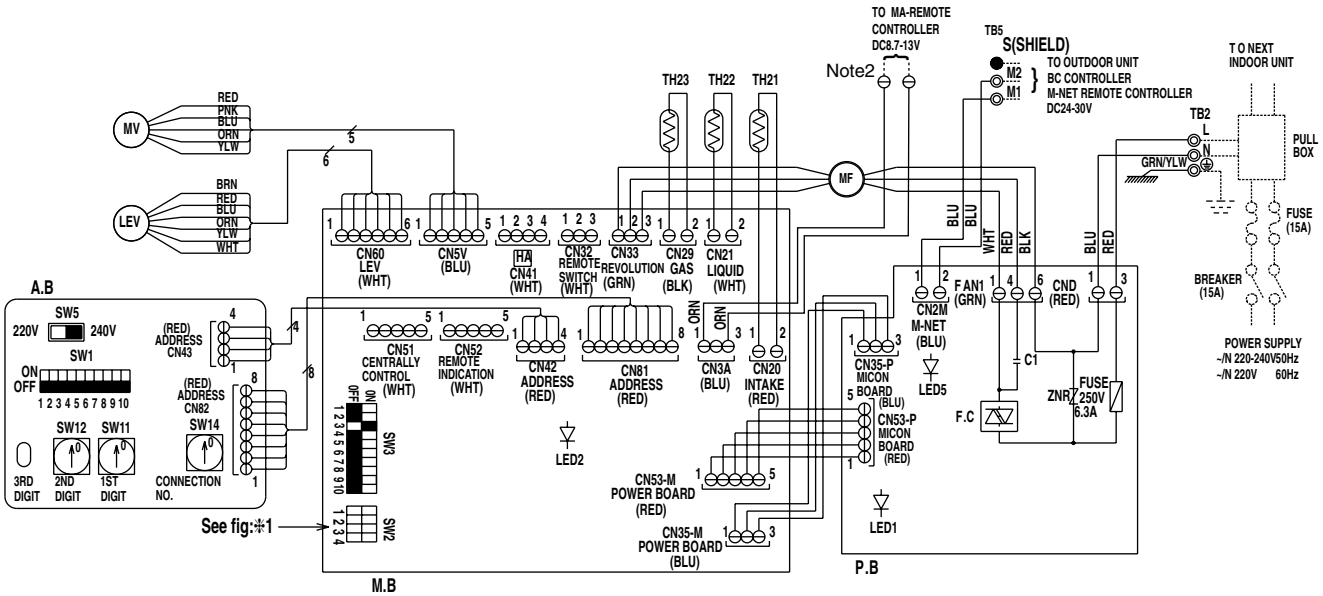
Model	Liquid pipe	Gas pipe
32,40	ø6.35	ø12.7
50	ø 6.35(R410A) ø9.52(R407C,R22)	ø 12.7(R410A) ø15.88(R407C,R22)

5. Electrical Wiring Diagrams

5.1 PKFY-P-VAM-E

<SYMBOL EXPLANATION>

Symbol	Name		Symbol	Name		Symbol	Name	
M.B	Indoor controller board		TH23	Thermistor	Pipe temp. detection/Gas (0˚C / 15kΩ, 25˚C / 5.4kΩ)	TB2	Terminal block	Power supply
CN32	Connector	Remote switch				TB5		ME Remote controller
CN41		HA terminal - A	P.B	Indoor power board		A.B	Circuit board	Address
CN51		Centrally control	ZNR	Varistor		SW1 <A.B>	Switch	Mode selection
CN52		Remote indication	FUSE	Fuse (6.3A)		SW5 <A.B>		Voltage selection
SW2	Switch	Capacity code	F.C	Fan phase control		SW11 <A.B>		Address setting 1st digit
SW3		Mode selection	MF	Fan motor		SW12 <A.B>		Address setting 2nd digit
TH21	Thermistor	Room temp. detection (0˚C / 15kΩ, 25˚C / 5.4kΩ)	C1	Capacity (fan motor)		SW14 <A.B>		Connection No.
			MV	Vane motor				
TH22		Pipe temp. detection/liquid (0˚C / 15kΩ, 25˚C / 5.4kΩ)	LEV	Linear expansion valve				



Note

1. At servicing for outdoor unit, always follow the wiring diagram of outdoor unit.
2. In case of connecting MA-Remote controller, please connect MA-Remote controller to the connector. (Remote controller wire is non-polar.)
3. In case of using M-NET, please connect to the wire.(BLU, two wire) <M1, M2>of CN2M (Transmission line is non-polar.)
4. Symbols used in wiring diagram above are, ◎ : terminal block, ⊖: connector, ● : direct wire connection.
5. The setting of the SW2 dip switches differs in the capacity. For the detail, refer to the fig:❊1.
6. Please set the switch SW5 accordng to the power supply voltage.
   SW5 to 240V side when the power supply is 230 and 240 volts.
   When the power supply is 220 volts, set SW5 to 220V side.

Led on indoor board for sevice

Mark	Meaning	Function
LED1	Main power supply	Main power supply (indoor unit:220-240V) power on ⇒ lamp is lit
LED2	Power supply for MA-Remote controller	Power supply for MA-Remote controller on → lamp is lit

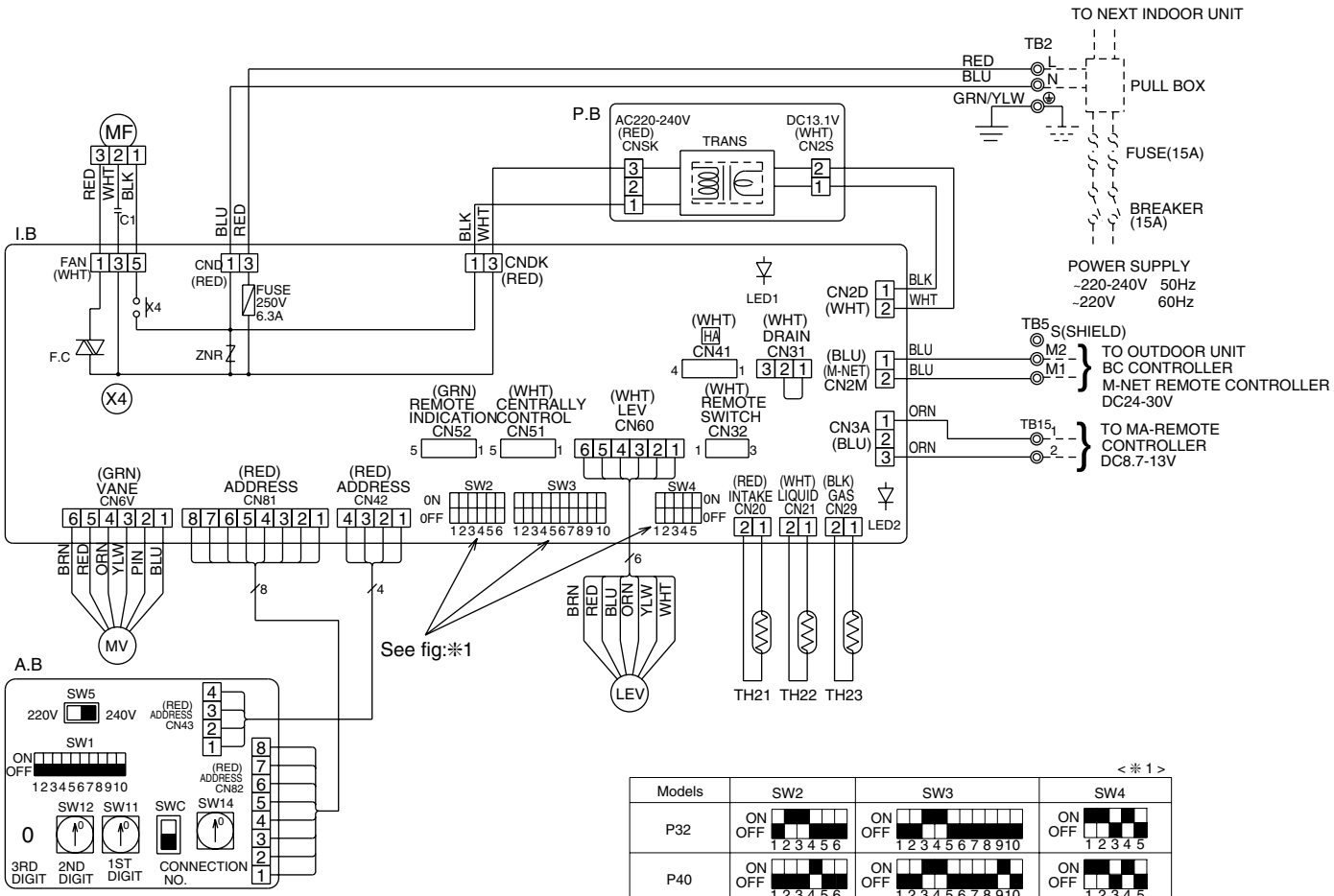
<❊ 1>

MODELS	SW2	MODELS	SW2
P20	ON / OFF 1 2 3 4	P25	ON / OFF 1 2 3 4

5.2 PKFY-P-VGM-E

<SYMBOL EXPLANATION>

Symbol		Name		Symbol	Name		Symbol		Name	
I.B		Indoor controller board		TH21	Thermistor	Room temp. detection (0˚C/15kΩ,25˚C/5.4kΩ)	A.B		Circuit board	
	CN32	Connector	Remote switch					SW1	Switch	Mode selection
	CN41		HA terminal-A	TH22		Pipe temp. detection/liquid (0˚C/15kΩ,25˚C/5.4kΩ)		SW5		Voltage selection
	CN51		Centrally control					SW11		Address setting 1st digit
	CN52		Remote indication	TH23		Pipe temp. detection/Gas (0˚C/15kΩ,25˚C/5.4kΩ)		SW12		Address setting 2nd digit
	SW2	Switch	Capacity code					SW14		Connection No.
	SW3		Mode selection	MF	Fan motor (with inner thermostat)			SWC		Option selector
	SW4		Model selection	C1	Capacitor (fan motor)		P.B		Indoor power board	
	ZNR	Varistor		MV	Vane motor					
	X4	Aux.Relay (Fan motor)		TB2	Terminal block	Power supply				
	FUSE	Fuse (6.3A)		TB5		Transmission				
	F.C	Fan phase control		TB15		MA-Remote controller				
				LEV	Linear expansion valve					



< ✻ 1 >

Models	SW2	SW3	SW4
P32	ON OFF 1 2 3 4 5 6	ON OFF 1 2 3 4 5 6 7 8 9 10	ON OFF 1 2 3 4 5
P40	ON OFF 1 2 3 4 5 6	ON OFF 1 2 3 4 5 6 7 8 9 10	ON OFF 1 2 3 4 5
P50	ON OFF 1 2 3 4 5 6	ON OFF 1 2 3 4 5 6 7 8 9 10	ON OFF 1 2 3 4 5

NOTE

1.At servicing for outdoor unit,always follow the wiring diagram of outdoor unit.
2.In case of using MA-Remote controller, please connect to TB15.
(Remote controller wire is non-polar.)
3.In case of using M-NET, please connect to TB5.(Transmission line is non-polar.)
4.Symbol[S] of TB5 is the shield wire connection.
5.Symbols used in wiring diagram above are,
◎:Terminal block, ▭▭▭ :Connector.
6.The setting of the SW2 dip switches differs in the capacity. For the detail,refer to the fig: ✻1.
7.Please set the switch SW5 according to the power supply voltage.
Set SW5 to 240V side when the power supply is 230 and 240 volts.
When the power supply is 220 volts,set SW5 to 220V side.

Led on indoor board for sevice

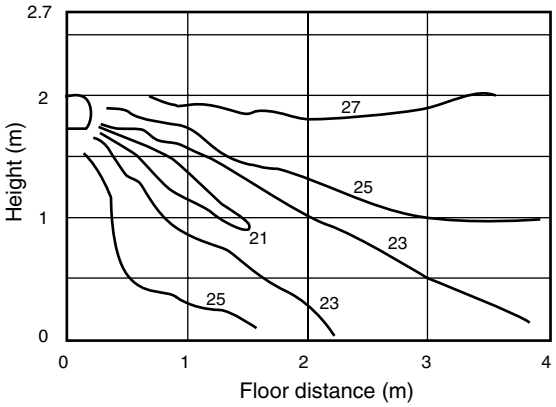
Mark	Meaning	Function
LED1	Main power supply	Main power supply (indoor unit:220-240V) power on ⇒lamp is lit
LED2	Power supply for MA-Remote controller	Power supply for MA-Remote controller on ➡ lamp is lit

6. Temperature/Airflow distribution

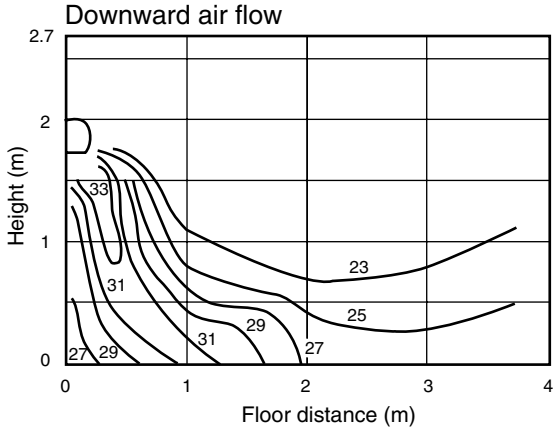
6.1 PKFY-P-VAM-E

6.1.1 Temperature distribution

<Cooling mode>
Horizontal air flow

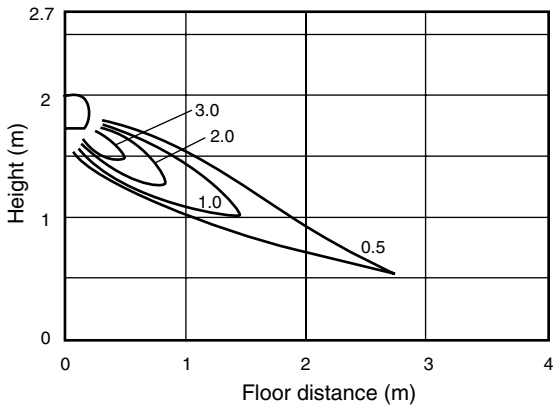


<Heating mode>
Downward air flow

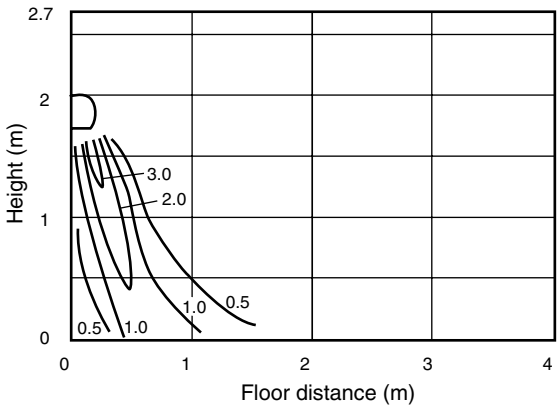


6.1.2 Airflow distribution

<Fan mode>
Horizontal air flow



<Fan mode>
Downward air flow



6.2 PKFY-P-VGM-E

6.2.1 Temperature distribution

<Cooling mode>
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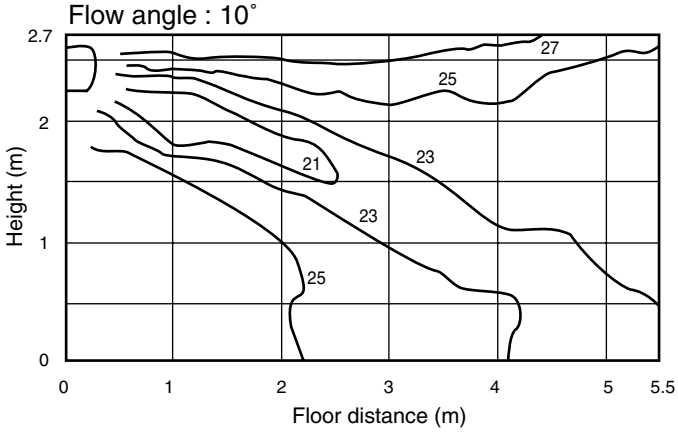
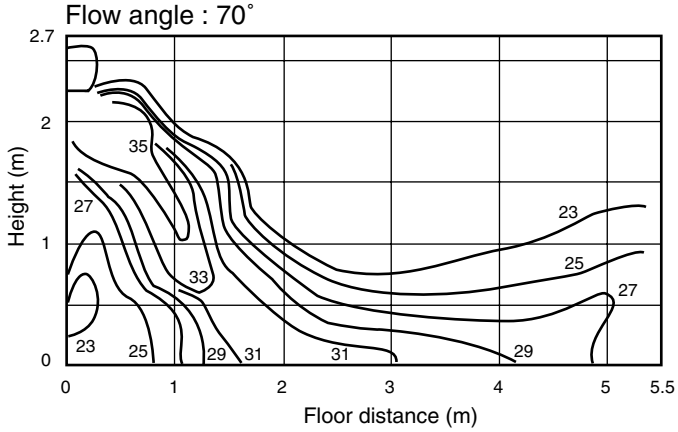
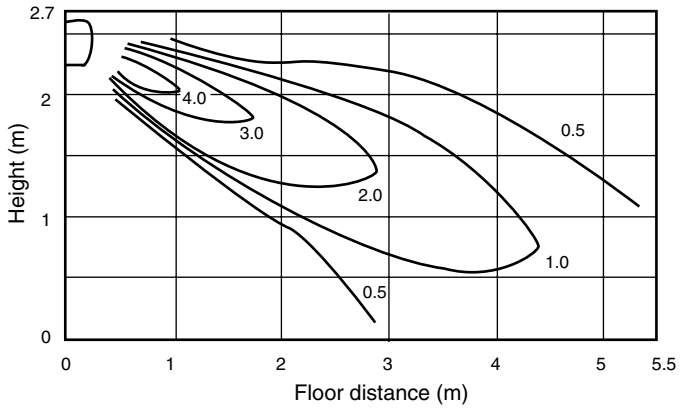


<Heating mode>
Flow angle : 70˚

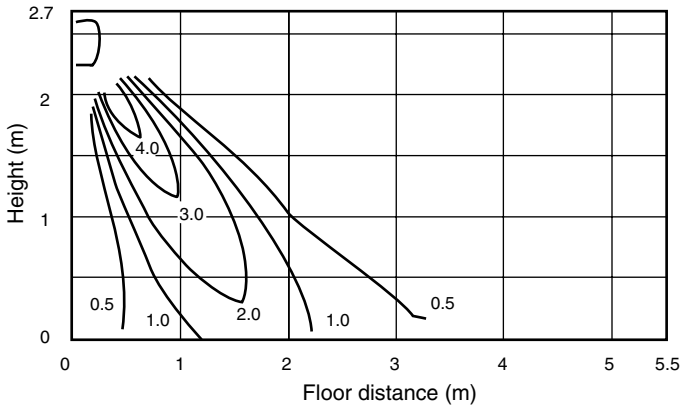


6.2.2 Airflow distribution

<Fan mode>
Flow angle : 10˚



<Fan mode>
Flow angle : 70˚



Ceiling suspended PCFY-P-VGM-E

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Model Name	20	25	32	40	50	63	71	80	100	125	140	200	250
PCFY-P-VGM-E				●		●			●	●			

1. Specifications

			PCFY-P40VGM-E	PCFY-P63VGM-E	PCFY-P100VGM-E	PCFY-P125VGM-E
Power source			~ 220-240V 50Hz / ~220V 60Hz			
Cooling capacity	✻1	kW	4.5	7.1	11.2	14.0
	✻1	BTU/h	15,350	24,220	38,200	47,750
	✻2	kW	4.7	7.3	11.6	14.5
	✻2	kcal/h	4,000	6,300	10,000	12,500
Heating capacity	✻1	kW	5.0	8.0	12.5	16.0
	✻1	BTU/h	17,060	27,290	42,650	54,580
	✻2	kW	5.2	8.3	13.0	16.3
	✻2	kcal/h	4,500	7,100	11,200	14,000
Power consumption	Cooling	kW	0.10	0.13	0.16	0.24
	Heating	kW	0.10	0.13	0.16	0.24
Current	Cooling	A	0.46	0.60	0.73	1.10
	Heating	A	0.46	0.60	0.73	1.10
External finish(Munsel No.)			0.70Y 8.59/0.97			
Dimension H x W x D ✻3		mm	210 x 1,000 x 680	210 x 1,310 x 680	270 x 1,310 x 680	270 x 1,620 x 680
Net weight ✻3		kg	27	34	37	43
Heat exchanger			Cross fin (Aluminum plate fin and copper tube)			
Fan	Type		Sirocco fan× 2	Sirocco fan× 3		Sirocco fan× 4
	Airflow rate ✻3 (Lo-Mid2-Mid1-Hi)	m^3/min	8-10-11-12	12-14-16-18	18-20-23-25	26-28-32-35
	External static pressure	Pa	0			
Motor	Type		Single phase induction motor			
	Output	kW	0.054	0.070	0.090	0.150
Air filter			PP Honeycomb (long life)			
Refrigerant pipe dimension	Gas (Flare)	mm	ø 12.7	ø 15.88	ø 15.88 / ø 19.05 (Compatible)	
	Liquid (Flare)	mm	ø 6.35	ø 9.52		
Drain pipe dimension			I.D. ø26 (VP-25)			
Noise level (Lo-Mid2-Mid1-Hi) ✻3 ✻4		dB(A)	29-33-36-38	32-34-37-39	36-38-41-43	37-39-42-44

Note: ✻1 Cooling/Heating capacity indicates the maximum value at operation under the following condition.
Cooling : Indoor 27˚CDB/19˚CWB,Outdoor 35˚CDB
Heating : Indoor 20˚CDB,Outdoor 7˚CDB/6˚CWB
✻2 Cooling capacity indicates the maximum value at operation under the following condition.
Cooling : Indoor 27˚CDB/19.5˚CWB,Outdoor 35˚CDB (WR2: water 30˚C)
Heating : Indoor 21˚CDB,Outdoor 7˚CDB/6˚CWB (WR2: water 20˚C)
✻3 External dimension/net weight are shown in (unit/panel),and airflw rate/noise level are in (low-middle 2-middle 1-high).
✻4 It is measured in anechoic room.

2. Capacity Tables

2.1a. Cooling capacity in combination with PUHY,PUY,PURY-P200,250YGM

PCFY-P-VGM-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
40 (4.5)	20.0	4.0	2.9	4.3	3.1	4.6	3.1	4.9	3.2	5.0	3.3	5.3	3.3	5.7	3.2
	22.5	4.0	2.9	4.3	3.1	4.6	3.1	4.9	3.2	5.0	3.3	5.3	3.3	5.7	3.2
	25.0	4.0	2.9	4.3	3.1	4.6	3.1	4.9	3.2	5.0	3.3	5.3	3.2	5.6	3.2
	27.5	4.0	2.9	4.3	3.1	4.5	3.1	4.8	3.1	4.8	3.2	5.2	3.2	5.5	3.1
	30.0	4.0	2.9	4.2	3.0	4.5	3.0	4.7	3.1	4.8	3.2	5.0	3.1	5.4	3.1
	32.5	3.9	2.9	4.1	3.0	4.4	3.0	4.6	3.1	4.7	3.1	5.0	3.1	5.3	3.1
	35.0	3.8	2.8	4.0	3.0	4.3	2.9	4.5	3.0	4.6	3.1	4.9	3.1	5.2	3.0
	37.5	3.8	2.8	4.0	2.9	4.2	2.9	4.4	3.0	4.5	3.1	4.8	3.0	5.0	3.0
	40.0	3.7	2.8	3.9	2.9	4.1	2.9	4.3	2.9	4.4	3.0	4.7	3.0	5.0	2.9
	43.0	3.6	2.8	3.8	2.9	4.0	2.8	4.2	2.9	4.2	2.9	4.5	2.9	4.8	2.9
63 (7.1)	20.0	6.4	4.7	6.8	4.9	7.3	4.9	7.7	5.0	7.8	5.2	8.4	5.1	9.0	5.1
	22.5	6.4	4.7	6.8	4.9	7.3	4.9	7.7	5.0	7.8	5.2	8.4	5.1	9.0	5.1
	25.0	6.4	4.7	6.8	4.9	7.3	4.9	7.7	5.0	7.8	5.2	8.3	5.1	8.8	5.0
	27.5	6.3	4.6	6.7	4.9	7.2	4.8	7.5	5.0	7.6	5.1	8.1	5.0	8.7	5.0
	30.0	6.2	4.6	6.6	4.8	7.0	4.8	7.4	4.9	7.5	5.0	8.0	5.0	8.5	4.9
	32.5	6.1	4.5	6.5	4.7	6.9	4.7	7.2	4.8	7.3	5.0	7.8	4.9	8.3	4.8
	35.0	6.0	4.5	6.4	4.7	6.7	4.6	7.1	4.8	7.2	4.9	7.7	4.8	8.1	4.8
	37.5	6.0	4.5	6.2	4.6	6.6	4.6	6.9	4.7	7.0	4.8	7.5	4.8	8.0	4.7
	40.0	5.9	4.4	6.1	4.6	6.5	4.5	6.8	4.7	6.9	4.8	7.3	4.7	7.8	4.7
	43.0	5.8	4.4	6.0	4.5	6.3	4.5	6.6	4.6	6.6	4.7	7.2	4.7	7.6	4.6
100 (11.2)	20.0	10.0	7.2	10.7	7.6	11.5	7.6	12.1	7.7	12.4	8.0	13.2	7.9	14.2	7.8
	22.5	10.0	7.2	10.7	7.6	11.5	7.6	12.1	7.7	12.4	8.0	13.2	7.9	14.2	7.8
	25.0	10.0	7.2	10.7	7.6	11.5	7.6	12.1	7.7	12.3	8.0	13.1	7.9	13.9	7.7
	27.5	10.0	7.2	10.6	7.5	11.3	7.5	11.9	7.6	12.0	7.8	12.8	7.7	13.7	7.6
	30.0	9.9	7.1	10.4	7.4	11.1	7.4	11.6	7.5	11.9	7.8	12.5	7.6	13.4	7.5
	32.5	9.6	7.0	10.2	7.3	10.9	7.3	11.4	7.4	11.6	7.6	12.3	7.5	13.1	7.4
	35.0	9.5	6.9	10.0	7.2	10.6	7.1	11.2	7.3	11.4	7.5	12.1	7.4	12.8	7.3
	37.5	9.4	6.9	9.9	7.1	10.4	7.0	10.9	7.2	11.1	7.4	11.9	7.4	12.5	7.2
	40.0	9.2	6.8	9.6	7.0	10.2	7.0	10.8	7.1	10.9	7.3	11.6	7.2	12.3	7.1
	43.0	9.1	6.7	9.4	6.9	10.0	6.8	10.4	7.0	10.4	7.1	11.3	7.1	12.0	7.0
125 (14.0)	20.0	12.5	9.0	13.4	9.4	14.4	9.5	15.1	9.7	15.5	10.0	16.5	9.9	17.7	9.8
	22.5	12.5	9.0	13.4	9.4	14.4	9.5	15.1	9.7	15.5	10.0	16.5	9.9	17.7	9.8
	25.0	12.5	9.0	13.4	9.4	14.4	9.5	15.1	9.7	15.4	9.9	16.4	9.8	17.4	9.7
	27.5	12.5	8.9	13.2	9.4	14.1	9.3	14.8	9.5	15.1	9.8	16.0	9.7	17.1	9.5
	30.0	12.3	8.9	13.0	9.3	13.9	9.2	14.6	9.4	14.8	9.7	15.7	9.5	16.7	9.4
	32.5	12.0	8.7	12.7	9.1	13.6	9.1	14.2	9.2	14.5	9.5	15.4	9.4	16.4	9.3
	35.0	11.9	8.6	12.5	9.0	13.3	8.9	14.0	9.2	14.2	9.4	15.1	9.3	16.0	9.1
	37.5	11.8	8.6	12.3	8.9	13.0	8.8	13.7	9.0	13.9	9.2	14.8	9.2	15.7	9.0
	40.0	11.6	8.5	12.0	8.8	12.8	8.7	13.4	8.9	13.7	9.1	14.5	9.0	15.4	8.9
	43.0	11.3	8.4	11.8	8.6	12.5	8.5	13.0	8.7	13.0	8.9	14.1	8.9	15.0	8.8

2.1b. Heating capacity in combination with PUHY,PUY,PURY-P200,250YGM

PCFY-P-VGM-E

SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
40 (4.5)	-20.0	2.6	2.5	2.5	2.5
	-15.0	3.1	3.1	3.0	3.0
	-10.0	3.7	3.6	3.5	3.4
	-5.0	4.2	4.2	4.0	3.5
	0.0	4.7	4.7	4.0	3.5
	2.5	5.0	5.0	4.0	3.5
	6.0	5.2	5.0	4.0	3.5
	7.5	5.4	5.0	4.0	3.5
	10.0	5.7	5.0	4.0	3.5
	12.5	6.0	5.0	4.0	3.5
	15.5	6.4	5.0	4.0	3.5
63 (7.1)	-20.0	4.1	4.0	4.0	4.0
	-15.0	5.0	4.9	4.8	4.7
	-10.0	5.8	5.8	5.6	5.5
	-5.0	6.7	6.6	6.4	5.6
	0.0	7.6	7.5	6.4	5.6
	2.5	8.0	7.9	6.4	5.6
	6.0	8.3	8.0	6.4	5.6
	7.5	8.6	8.0	6.4	5.6
	10.0	9.1	8.0	6.4	5.6
	12.5	9.6	8.0	6.4	5.6
	15.5	10.2	8.0	6.4	5.6
100 (11.2)	-20.0	6.4	6.3	6.3	6.3
	-15.0	7.8	7.6	7.5	7.4
	-10.0	9.1	9.0	8.8	8.6
	-5.0	10.5	10.4	10.0	8.8
	0.0	11.8	11.8	10.0	8.8
	2.5	12.5	12.4	10.0	8.8
	6.0	13.0	12.5	10.0	8.8
	7.5	13.4	12.5	10.0	8.8
	10.0	14.3	12.5	10.0	8.8
	12.5	15.1	12.5	10.0	8.8
	15.5	16.0	12.5	10.0	8.8
125 (14.0)	-20.0	8.2	8.0	8.0	8.0
	-15.0	9.9	9.8	9.6	9.4
	-10.0	11.7	11.5	11.2	11.0
	-5.0	13.4	13.3	12.8	11.2
	0.0	15.1	15.0	12.8	11.2
	2.5	16.0	15.8	12.8	11.2
	6.0	16.6	16.0	12.8	11.2
	7.5	17.2	16.0	12.8	11.2
	10.0	18.2	16.0	12.8	11.2
	12.5	19.3	16.0	12.8	11.2
	15.5	20.5	16.0	12.8	11.2

2.2a. Cooling capacity in combination with PUHY,PUY,PURY-P300,350,400YGM

PCFY-P-VGM-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
40 (4.5)	20.0	4.4	3.1	4.5	3.2	4.9	3.2	5.0	3.3	5.2	3.4	5.5	3.3	5.9	3.3
	22.5	4.3	3.1	4.5	3.2	4.8	3.2	5.0	3.2	5.1	3.3	5.4	3.3	5.7	3.2
	25.0	4.3	3.1	4.4	3.2	4.7	3.1	4.9	3.2	5.0	3.3	5.3	3.3	5.6	3.2
	27.5	4.2	3.0	4.3	3.1	4.6	3.1	4.8	3.1	4.9	3.3	5.2	3.2	5.5	3.2
	30.0	4.1	3.0	4.2	3.1	4.5	3.1	4.7	3.1	4.8	3.2	5.1	3.2	5.4	3.1
	32.5	4.1	3.0	4.2	3.0	4.4	3.0	4.6	3.1	4.7	3.2	5.0	3.1	5.3	3.1
	35.0	4.0	2.9	4.1	3.0	4.3	3.0	4.5	3.0	4.6	3.1	4.9	3.1	5.2	3.0
	37.5	4.0	2.9	4.0	2.9	4.3	2.9	4.4	3.0	4.5	3.1	4.8	3.1	5.1	3.0
	40.0	3.9	2.9	3.9	2.9	4.2	2.9	4.3	2.9	4.9	3.2	4.7	3.0	5.0	3.0
	43.0	3.8	2.8	3.8	2.9	4.1	2.8	4.2	2.9	4.3	3.0	4.6	3.0	4.8	2.9
63 (7.1)	20.0	6.9	4.9	7.1	5.1	7.7	5.1	8.0	5.1	8.2	5.3	8.7	5.3	9.2	5.2
	22.5	6.9	4.9	7.1	5.1	7.6	5.0	7.8	5.1	8.1	5.3	8.5	5.2	9.1	5.1
	25.0	6.8	4.9	7.0	5.0	7.4	5.0	7.7	5.0	7.9	5.2	8.4	5.1	8.9	5.1
	27.5	6.6	4.8	6.8	4.9	7.3	4.9	7.5	5.0	7.8	5.1	8.2	5.1	8.7	5.0
	30.0	6.5	4.7	6.7	4.8	7.1	4.8	7.4	4.9	7.6	5.1	8.1	5.0	8.5	4.9
	32.5	6.4	4.7	6.6	4.8	7.0	4.8	7.2	4.8	7.5	5.0	7.9	4.9	8.4	4.9
	35.0	6.3	4.6	6.4	4.7	6.8	4.7	7.1	4.8	7.3	4.9	7.7	4.9	8.2	4.8
	37.5	6.2	4.6	6.3	4.7	6.7	4.6	6.9	4.7	7.2	4.9	7.6	4.8	8.0	4.7
	40.0	6.1	4.6	6.1	4.6	6.6	4.6	6.8	4.6	7.7	5.1	7.4	4.8	7.8	4.7
	43.0	6.0	4.5	6.0	4.5	6.4	4.5	6.6	4.6	6.8	4.7	7.2	4.7	7.6	4.6
100 (11.2)	20.0	10.9	7.6	11.3	7.8	12.1	7.8	12.5	7.9	12.9	8.2	13.7	8.1	14.6	8.0
	22.5	10.8	7.6	11.2	7.8	11.9	7.8	12.3	7.8	12.7	8.1	13.5	8.0	14.3	7.9
	25.0	10.7	7.5	11.0	7.7	11.7	7.7	12.1	7.7	12.5	8.0	13.2	7.9	14.0	7.8
	27.5	10.5	7.4	10.8	7.6	11.5	7.5	11.9	7.6	12.2	7.9	13.0	7.8	13.7	7.7
	30.0	10.3	7.3	10.5	7.5	11.3	7.4	11.6	7.5	12.0	7.8	12.8	7.7	13.4	7.6
	32.5	10.1	7.2	10.4	7.4	11.0	7.3	11.4	7.4	11.8	7.7	12.4	7.6	13.2	7.5
	35.0	10.0	7.2	10.1	7.3	10.8	7.2	11.2	7.3	11.5	7.6	12.2	7.5	12.9	7.4
	37.5	9.9	7.1	9.9	7.2	10.6	7.1	10.9	7.2	11.3	7.5	12.0	7.4	12.7	7.3
	40.0	9.7	7.0	9.7	7.1	10.4	7.0	10.7	7.1	12.2	7.9	11.7	7.3	12.4	7.2
	43.0	9.4	6.9	9.4	6.9	10.1	6.9	10.4	7.0	10.7	7.2	11.4	7.2	12.0	7.0
125 (14.0)	20.0	13.6	9.5	14.1	9.8	15.1	9.8	15.7	9.9	16.2	10.3	17.2	10.1	18.2	10.0
	22.5	13.5	9.5	14.0	9.8	14.9	9.7	15.4	9.8	15.9	10.1	16.8	10.0	17.9	9.8
	25.0	13.4	9.4	13.7	9.6	14.6	9.6	15.1	9.7	15.6	10.0	16.5	9.9	17.5	9.7
	27.5	13.1	9.3	13.4	9.5	14.4	9.4	14.8	9.5	15.3	9.9	16.2	9.7	17.2	9.6
	30.0	12.9	9.2	13.2	9.3	14.1	9.3	14.6	9.4	15.0	9.7	16.0	9.6	16.8	9.4
	32.5	12.7	9.0	13.0	9.2	13.8	9.2	14.3	9.3	14.7	9.6	15.5	9.5	16.5	9.3
	35.0	12.5	8.9	12.7	9.1	13.4	9.0	14.0	9.2	14.4	9.5	15.3	9.3	16.2	9.2
	37.5	12.3	8.9	12.4	8.9	13.2	8.9	13.7	9.0	14.1	9.4	15.0	9.2	15.8	9.1
	40.0	12.1	8.8	12.1	8.8	13.0	8.8	13.4	8.9	15.2	9.8	14.6	9.1	15.5	8.9
	43.0	11.8	8.6	11.8	8.6	12.6	8.6	13.0	8.7	13.4	9.0	14.2	8.9	15.1	8.8

2.2b. Heating capacity in combination with PUHY,PUY,PURY-P300,350,400YGM

PCFY-P-VGM-E

SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
40 (4.5)	-20.0	2.6	2.5	2.5	2.4
	-15.0	3.0	3.0	3.0	2.9
	-10.0	3.5	3.5	3.4	3.2
	-5.0	4.0	4.0	3.8	3.2
	0.0	4.5	4.5	3.8	3.2
	2.5	4.8	4.7	3.8	3.2
	6.0	5.1	5.0	3.8	3.2
	7.5	5.3	5.0	3.8	3.2
	10.0	5.5	5.0	3.8	3.2
	12.5	5.8	5.0	3.8	3.2
	15.5	5.8	5.0	3.8	3.2
63 (7.1)	-20.0	4.2	4.0	4.0	3.8
	-15.0	4.8	4.8	4.8	4.6
	-10.0	5.6	5.6	5.5	5.1
	-5.0	6.4	6.4	6.0	5.1
	0.0	7.2	7.2	6.0	5.1
	2.5	7.6	7.6	6.0	5.1
	6.0	8.2	8.0	6.0	5.1
	7.5	8.5	8.0	6.0	5.1
	10.0	8.8	8.0	6.0	5.1
	12.5	9.2	8.0	6.0	5.1
	15.5	9.2	8.0	6.0	5.1
100 (11.2)	-20.0	6.5	6.3	6.3	6.0
	-15.0	7.5	7.5	7.5	7.3
	-10.0	8.8	8.8	8.6	8.0
	-5.0	10.0	10.0	9.4	8.0
	0.0	11.3	11.3	9.4	8.0
	2.5	11.9	11.8	9.4	8.0
	6.0	12.8	12.5	9.4	8.0
	7.5	13.3	12.5	9.4	8.0
	10.0	13.8	12.5	9.4	8.0
	12.5	14.4	12.5	9.4	8.0
	15.5	14.4	12.5	9.4	8.0
125 (14.0)	-20.0	8.3	8.0	8.0	7.7
	-15.0	9.6	9.6	9.6	9.3
	-10.0	11.2	11.2	11.0	10.2
	-5.0	12.8	12.8	12.0	10.2
	0.0	14.4	14.4	12.0	10.2
	2.5	15.3	15.1	12.0	10.2
	6.0	16.4	16.0	12.0	10.2
	7.5	17.0	16.0	12.0	10.2
	10.0	17.7	16.0	12.0	10.2
	12.5	18.4	16.0	12.0	10.2
	15.5	18.4	16.0	12.0	10.2

2.3a. Cooling capacity in combination with PUHY,PURY-P450,500,550,600,650YGM

PCFY-P-VGM-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
40 (4.5)	20.0	4.3	3.1	4.4	3.1	4.7	3.1	4.8	3.2	5.0	3.3	5.3	3.3	5.7	3.2
	22.5	4.2	3.1	4.3	3.1	4.6	3.1	4.8	3.1	5.0	3.3	5.3	3.2	5.6	3.2
	25.0	4.2	3.0	4.3	3.1	4.6	3.1	4.7	3.1	4.9	3.3	5.2	3.2	5.6	3.2
	27.5	4.1	3.0	4.2	3.1	4.5	3.1	4.7	3.1	4.9	3.2	5.2	3.2	5.4	3.1
	30.0	4.1	3.0	4.2	3.0	4.5	3.0	4.6	3.1	4.8	3.2	5.1	3.2	5.4	3.1
	32.5	4.1	3.0	4.1	3.0	4.4	3.0	4.5	3.0	4.8	3.2	5.1	3.2	5.4	3.1
	35.0	4.0	2.9	4.1	3.0	4.4	3.0	4.5	3.0	4.7	3.2	5.0	3.1	5.4	3.1
	37.5	4.0	2.9	4.0	3.0	4.3	3.0	4.4	3.0	4.7	3.1	5.0	3.1	5.3	3.1
	40.0	3.9	2.9	4.0	2.9	4.3	3.0	4.4	3.0	4.6	3.1	5.0	3.1	5.3	3.1
	43.0	3.9	2.9	3.9	2.9	4.2	2.9	4.3	2.9	4.5	3.1	4.9	3.1	5.2	3.0
63 (7.1)	20.0	6.7	4.8	6.9	5.0	7.4	4.9	7.6	5.0	7.9	5.2	8.4	5.1	8.9	5.1
	22.5	6.7	4.8	6.9	4.9	7.3	4.9	7.5	5.0	7.8	5.2	8.3	5.1	8.8	5.0
	25.0	6.6	4.8	6.8	4.9	7.2	4.9	7.5	4.9	7.7	5.1	8.2	5.1	8.8	5.0
	27.5	6.5	4.7	6.7	4.8	7.2	4.8	7.4	4.9	7.7	5.1	8.2	5.0	8.5	4.9
	30.0	6.5	4.7	6.6	4.8	7.1	4.8	7.3	4.9	7.6	5.1	8.1	5.0	8.6	4.9
	32.5	6.4	4.7	6.5	4.8	7.0	4.7	7.2	4.8	7.5	5.0	8.0	5.0	8.5	4.9
	35.0	6.3	4.6	6.4	4.7	6.9	4.7	7.1	4.8	7.4	5.0	8.0	5.0	8.4	4.9
	37.5	6.2	4.6	6.4	4.7	6.8	4.7	7.0	4.7	7.3	5.0	7.8	4.9	8.4	4.9
	40.0	6.1	4.6	6.3	4.7	6.8	4.7	6.9	4.7	7.2	4.9	7.8	4.9	8.3	4.8
	43.0	6.1	4.5	6.2	4.6	6.7	4.6	6.8	4.7	7.2	4.9	7.7	4.8	8.2	4.8
100 (11.2)	20.0	10.6	7.5	10.9	7.7	11.6	7.6	12.0	7.7	12.5	8.0	13.2	7.9	14.1	7.8
	22.5	10.5	7.4	10.8	7.6	11.5	7.6	11.9	7.6	12.3	8.0	13.2	7.9	13.9	7.8
	25.0	10.4	7.4	10.7	7.6	11.4	7.5	11.8	7.6	12.2	7.9	13.0	7.8	13.8	7.7
	27.5	10.3	7.3	10.5	7.5	11.3	7.5	11.6	7.5	12.1	7.9	12.9	7.8	13.4	7.6
	30.0	10.2	7.3	10.4	7.4	11.2	7.4	11.5	7.5	12.0	7.8	12.8	7.7	13.6	7.6
	32.5	10.1	7.2	10.3	7.4	11.0	7.3	11.3	7.4	11.9	7.8	12.7	7.7	13.4	7.6
	35.0	10.0	7.2	10.1	7.3	10.9	7.3	11.2	7.3	11.6	7.7	12.5	7.6	13.3	7.5
	37.5	9.9	7.1	10.0	7.2	10.8	7.2	11.0	7.3	11.6	7.6	12.4	7.6	13.2	7.5
	40.0	9.7	7.0	9.9	7.2	10.7	7.2	10.9	7.2	11.4	7.6	12.3	7.5	13.1	7.4
	43.0	9.6	7.0	9.8	7.1	10.5	7.1	10.8	7.1	11.3	7.5	12.1	7.4	13.0	7.4
125 (14.0)	20.0	13.2	9.3	13.7	9.6	14.6	9.5	15.0	9.6	15.6	10.0	16.5	9.9	17.6	9.8
	22.5	13.2	9.3	13.5	9.5	14.4	9.5	14.8	9.5	15.4	9.9	16.5	9.8	17.4	9.7
	25.0	13.0	9.2	13.4	9.4	14.3	9.4	14.7	9.5	15.3	9.9	16.2	9.7	17.3	9.6
	27.5	12.9	9.2	13.2	9.3	14.1	9.3	14.6	9.4	15.1	9.8	16.1	9.7	16.8	9.4
	30.0	12.7	9.1	13.0	9.3	14.0	9.3	14.4	9.3	15.0	9.7	16.0	9.6	16.9	9.5
	32.5	12.6	9.0	12.9	9.2	13.7	9.1	14.1	9.2	14.8	9.7	15.8	9.6	16.8	9.4
	35.0	12.5	8.9	12.7	9.1	13.7	9.1	14.0	9.2	14.6	9.5	15.7	9.5	16.7	9.4
	37.5	12.3	8.9	12.6	9.0	13.4	9.0	13.8	9.1	14.5	9.5	15.5	9.4	16.5	9.3
	40.0	12.1	8.8	12.4	8.9	13.4	9.0	13.6	9.0	14.3	9.4	15.4	9.4	16.4	9.3
	43.0	12.0	8.7	12.3	8.9	13.2	8.9	13.4	8.9	14.1	9.4	15.1	9.3	16.2	9.2

2.3b. Heating capacity in combination with PUHY,PURY-P450,500,550,600,650YGM

PCFY-P-VGM-E

SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
40 (4.5)	-20.0	2.7	2.6	2.6	2.5
	-15.0	3.1	3.0	3.0	2.9
	-10.0	3.6	3.5	3.4	3.3
	-5.0	4.1	4.0	3.9	3.5
	0.0	4.6	4.5	4.0	3.5
	2.5	4.8	4.8	4.0	3.5
	6.0	5.2	5.0	4.0	3.5
	7.5	5.3	5.0	4.0	3.5
	10.0	5.6	5.0	4.0	3.5
	12.5	5.8	5.0	4.0	3.5
	15.5	5.8	5.0	4.0	3.5
63 (7.1)	-20.0	4.2	4.1	4.1	4.0
	-15.0	5.0	4.8	4.8	4.6
	-10.0	5.8	5.6	5.4	5.3
	-5.0	6.6	6.4	6.2	5.6
	0.0	7.4	7.2	6.4	5.6
	2.5	7.7	7.6	6.4	5.6
	6.0	8.2	8.0	6.4	5.6
	7.5	8.5	8.0	6.4	5.6
	10.0	8.9	8.0	6.4	5.6
	12.5	9.3	8.0	6.4	5.6
	15.5	9.3	8.0	6.4	5.6
100 (11.2)	-20.0	6.6	6.4	6.4	6.3
	-15.0	7.8	7.6	7.5	7.3
	-10.0	9.0	8.8	8.5	8.3
	-5.0	10.3	10.0	9.6	8.8
	0.0	11.5	11.3	9.9	8.8
	2.5	12.0	11.9	9.9	8.8
	6.0	12.9	12.5	9.9	8.8
	7.5	13.3	12.5	9.9	8.8
	10.0	13.9	12.5	9.9	8.8
	12.5	14.5	12.5	9.9	8.8
	15.5	14.5	12.5	9.9	8.8
125 (14.0)	-20.0	8.5	8.2	8.2	8.0
	-15.0	10.0	9.7	9.6	9.3
	-10.0	11.5	11.2	10.9	10.6
	-5.0	13.1	12.8	12.3	11.3
	0.0	14.7	14.4	12.7	11.3
	2.5	15.4	15.2	12.7	11.3
	6.0	16.5	16.0	12.7	11.3
	7.5	17.0	16.0	12.7	11.3
	10.0	17.8	16.0	12.7	11.3
	12.5	18.6	16.0	12.7	11.3
	15.5	18.6	16.0	12.7	11.3

2.4a. Cooling capacity in combination with PUHY-P700,750,800YSGM

PCFY-P-VGM-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5˚CDB 15˚CWB		23˚CDB 16˚CWB		25˚CDB 18˚CWB		27˚CDB 19˚CWB		28˚CDB 20˚CWB		30˚CDB 22˚CWB		32˚CDB 24˚CWB	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
40 (4.5)	20.0	4.3	3.1	4.5	3.2	4.8	3.2	5.0	3.2	5.2	3.4	5.5	3.3	5.9	3.3
	22.5	4.3	3.1	4.4	3.2	4.7	3.2	4.9	3.2	5.1	3.3	5.4	3.3	5.8	3.2
	25.0	4.2	3.1	4.4	3.1	4.7	3.1	4.8	3.2	5.0	3.3	5.3	3.3	5.7	3.2
	27.5	4.1	3.0	4.3	3.1	4.6	3.1	4.7	3.1	4.9	3.3	5.2	3.2	5.6	3.2
	30.0	4.1	3.0	4.2	3.1	4.5	3.0	4.7	3.1	4.8	3.2	5.1	3.2	5.5	3.1
	32.5	4.0	2.9	4.1	3.0	4.4	3.0	4.6	3.1	4.7	3.2	5.0	3.1	5.4	3.1
	35.0	3.9	2.9	4.1	3.0	4.3	3.0	4.5	3.0	4.6	3.1	5.0	3.1	5.3	3.1
	37.5	3.8	2.9	4.0	3.0	4.3	2.9	4.4	3.0	4.6	3.1	4.9	3.1	5.2	3.0
	40.0	3.8	2.8	3.9	2.9	4.2	2.9	4.3	2.9	4.5	3.1	4.8	3.0	5.1	3.0
	43.0	3.7	2.8	3.8	2.9	4.1	2.8	4.2	2.9	4.4	3.0	4.7	3.0	5.0	2.9
63 (7.1)	20.0	6.9	4.9	7.1	5.1	7.6	5.1	7.9	5.1	8.2	5.3	8.7	5.3	9.3	5.2
	22.5	6.7	4.9	7.0	5.0	7.5	5.0	7.8	5.1	8.0	5.3	8.6	5.2	9.1	5.1
	25.0	6.7	4.8	6.9	5.0	7.4	4.9	7.6	5.0	7.9	5.2	8.4	5.1	8.9	5.1
	27.5	6.5	4.7	6.7	4.9	7.2	4.9	7.5	4.9	7.7	5.1	8.3	5.1	8.8	5.0
	30.0	6.4	4.7	6.6	4.8	7.1	4.8	7.3	4.9	7.6	5.1	8.1	5.0	8.7	5.0
	32.5	6.3	4.6	6.5	4.8	7.0	4.7	7.2	4.8	7.5	5.0	8.0	5.0	8.5	4.9
	35.0	6.2	4.6	6.4	4.7	6.8	4.7	7.1	4.8	7.3	4.9	7.8	4.9	8.3	4.8
	37.5	6.1	4.5	6.3	4.7	6.7	4.6	7.0	4.7	7.2	4.9	7.7	4.8	8.2	4.8
	40.0	6.0	4.5	6.1	4.6	6.6	4.6	6.8	4.7	7.1	4.8	7.5	4.8	8.0	4.7
	43.0	5.8	4.4	6.0	4.5	6.4	4.5	6.6	4.6	6.9	4.8	7.3	4.7	7.8	4.7
100 (11.2)	20.0	10.8	7.6	11.2	7.8	12.0	7.8	12.5	7.9	12.9	8.2	13.8	8.1	14.6	8.0
	22.5	10.6	7.5	11.0	7.7	11.8	7.7	12.2	7.8	12.7	8.1	13.6	8.0	14.3	7.9
	25.0	10.5	7.4	10.9	7.6	11.6	7.6	12.0	7.7	12.4	8.0	13.2	7.9	14.1	7.8
	27.5	10.3	7.3	10.6	7.5	11.4	7.5	11.8	7.6	12.2	7.9	13.0	7.8	13.9	7.7
	30.0	10.1	7.2	10.5	7.4	11.2	7.4	11.6	7.5	12.0	7.8	12.8	7.7	13.7	7.6
	32.5	9.9	7.1	10.2	7.3	11.0	7.3	11.4	7.4	11.8	7.7	12.5	7.6	13.4	7.5
	35.0	9.7	7.0	10.1	7.2	10.8	7.2	11.2	7.3	11.5	7.6	12.3	7.5	13.1	7.4
	37.5	9.6	7.0	10.0	7.2	10.6	7.1	11.0	7.2	11.4	7.5	12.1	7.4	12.9	7.3
	40.0	9.4	6.9	9.6	7.0	10.4	7.0	10.8	7.1	11.1	7.4	11.9	7.4	12.6	7.2
	43.0	9.2	6.8	9.4	6.9	10.1	6.9	10.5	7.0	10.9	7.3	11.6	7.2	12.3	7.1
125 (14.0)	20.0	13.5	9.5	14.0	9.8	15.1	9.8	15.6	9.9	16.1	10.2	17.2	10.2	18.3	10.0
	22.5	13.3	9.4	13.8	9.6	14.8	9.6	15.3	9.7	15.8	10.1	16.9	10.0	17.9	9.9
	25.0	13.2	9.3	13.6	9.5	14.6	9.5	15.1	9.6	15.5	10.0	16.5	9.9	17.6	9.8
	27.5	12.9	9.2	13.3	9.4	14.3	9.4	14.8	9.5	15.3	9.9	16.3	9.8	17.4	9.7
	30.0	12.6	9.0	13.1	9.3	14.0	9.3	14.5	9.4	15.0	9.7	16.0	9.6	17.1	9.5
	32.5	12.4	8.9	12.8	9.1	13.7	9.1	14.2	9.2	14.7	9.6	15.7	9.5	16.7	9.4
	35.0	12.2	8.8	12.6	9.0	13.4	9.0	14.0	9.2	14.4	9.5	15.4	9.4	16.4	9.3
	37.5	12.0	8.7	12.5	9.0	13.2	8.9	13.7	9.0	14.2	9.4	15.1	9.3	16.1	9.2
	40.0	11.8	8.6	12.0	8.8	13.0	8.8	13.4	8.9	13.9	9.3	14.8	9.2	15.8	9.0
	43.0	11.5	8.4	11.8	8.6	12.6	8.6	13.1	8.8	13.6	9.1	14.5	9.0	15.4	8.9

2.4b. Heating capacity in combination with PUHY-P700,750,800YSGM

PCFY-P-VGM-E

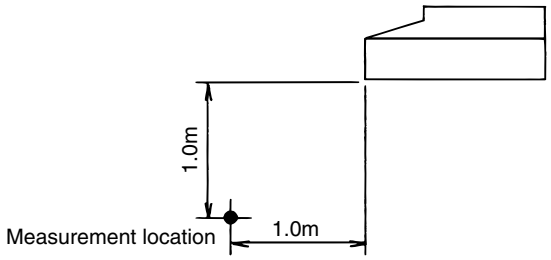
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	SHC
40 (4.5)	-20.0	2.5	2.5	2.5	2.5
	-15.0	3.1	3.0	3.0	2.9
	-10.0	3.6	3.5	3.4	3.4
	-5.0	4.1	4.0	3.9	3.7
	0.0	4.6	4.5	4.0	3.7
	2.5	4.8	4.7	4.0	3.7
	6.0	5.2	5.0	4.0	3.7
	7.5	5.3	5.0	4.0	3.7
	10.0	5.6	5.0	4.0	3.7
	12.5	5.8	5.0	4.0	3.7
	15.5	5.8	5.0	4.0	3.7
63 (7.1)	-20.0	4.0	4.0	4.0	3.9
	-15.0	4.9	4.8	4.8	4.6
	-10.0	5.7	5.6	5.4	5.4
	-5.0	6.5	6.4	6.2	5.9
	0.0	7.3	7.2	6.4	5.9
	2.5	7.7	7.5	6.4	5.9
	6.0	8.2	8.0	6.4	5.9
	7.5	8.5	8.0	6.4	5.9
	10.0	8.9	8.0	6.4	5.9
	12.5	9.3	8.0	6.4	5.9
	15.5	9.3	8.0	6.4	5.9
100 (11.2)	-20.0	6.3	6.3	6.3	6.1
	-15.0	7.6	7.5	7.4	7.3
	-10.0	8.9	8.8	8.5	8.4
	-5.0	10.1	10.0	9.6	9.2
	0.0	11.4	11.2	9.9	9.2
	2.5	12.0	11.8	9.9	9.2
	6.0	12.9	12.5	9.9	9.2
	7.5	13.3	12.5	9.9	9.2
	10.0	13.9	12.5	9.9	9.2
	12.5	14.5	12.5	9.9	9.2
	15.5	14.5	12.5	9.9	9.2
125 (14.0)	-20.0	8.0	8.0	8.0	7.8
	-15.0	9.8	9.6	9.5	9.3
	-10.0	11.4	11.2	10.9	10.7
	-5.0	13.0	12.8	12.3	11.8
	0.0	14.6	14.3	12.7	11.8
	2.5	15.4	15.0	12.7	11.8
	6.0	16.5	16.0	12.7	11.8
	7.5	17.0	16.0	12.7	11.8
	10.0	17.8	16.0	12.7	11.8
	12.5	18.6	16.0	12.7	11.8
	15.5	18.6	16.0	12.7	11.8

3. Sound Levels

3.1 Noise levels

Ceiling suspended



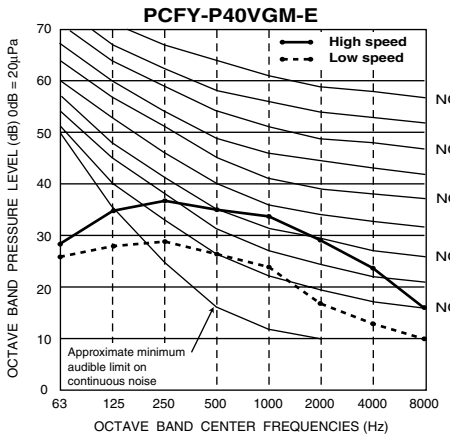
Noise level at anechoic room
(Low-Middle2-Middle1-High)

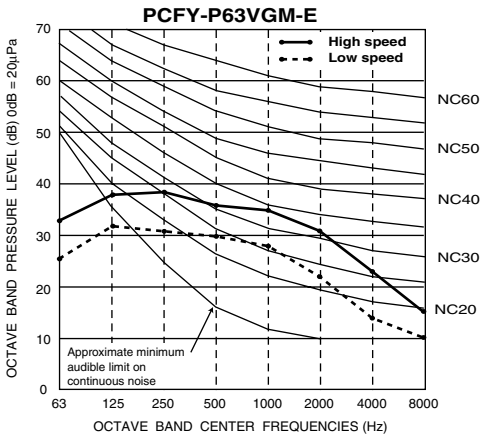
Unit : dB(A)

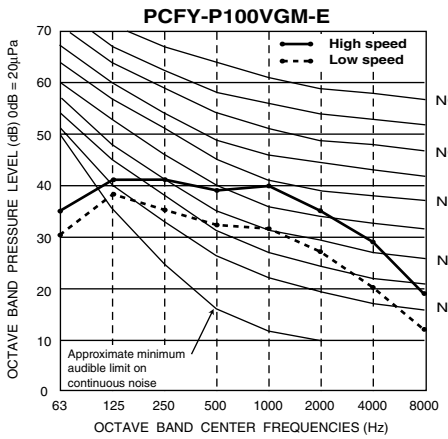
Model	Noise level (A weighted)
PCFY-P40VGM-E	29-33-36-38
PCFY-P63VGM-E	32-34-37-39
PCFY-P100VGM-E	36-38-41-43
PCFY-P125VGM-E	37-39-42-44

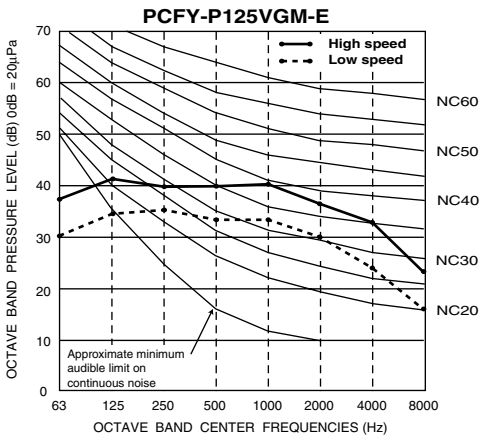
PCFY-P-VGM-E

3.2 NC curves





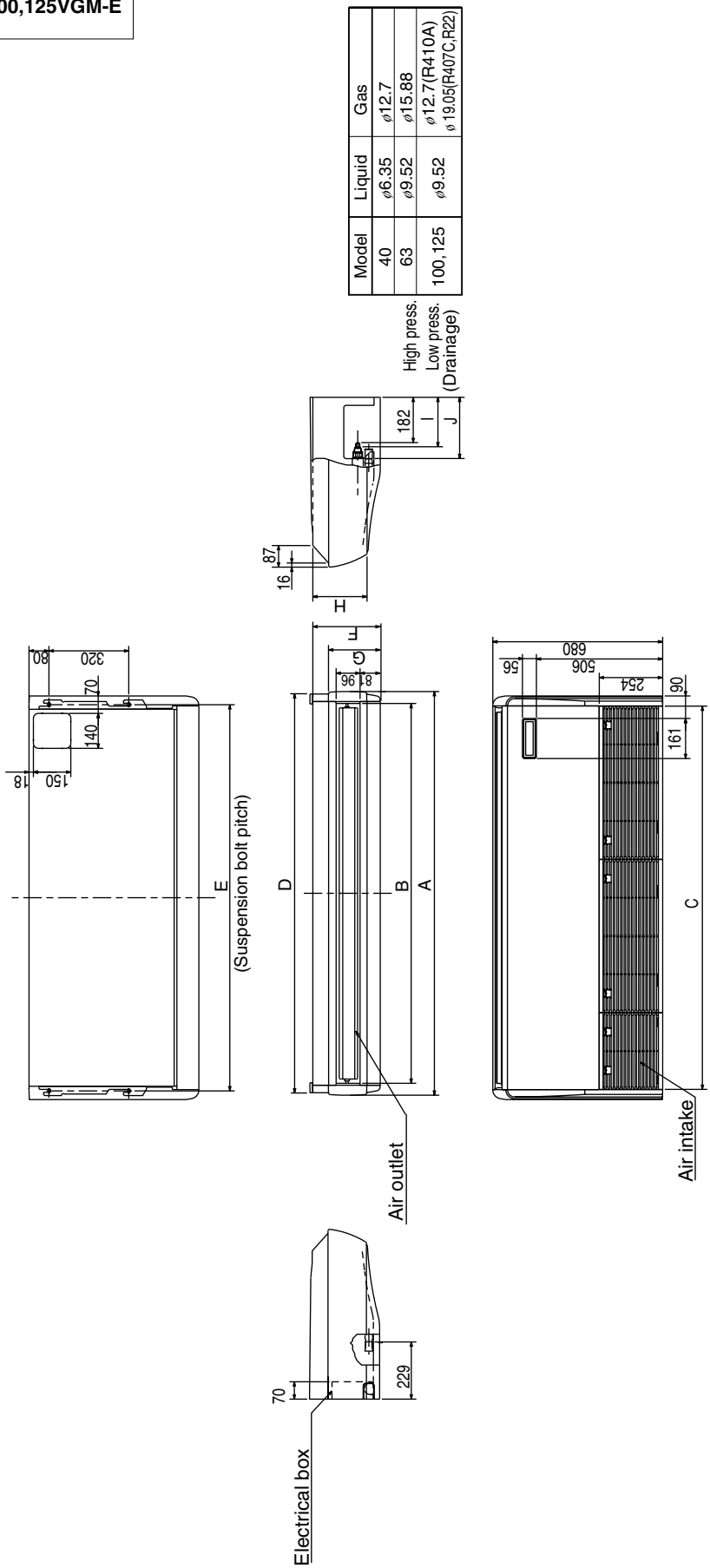




4. External Dimension

PCFY-P40,63,100,125VGM-E

Unit : mm



Model	Liquid	Gas
40	ø6.35	ø12.7
63	ø9.52	ø15.88
100,125	ø9.52	ø12.7(R410A) ø19.05(R407C,R22)

Model	A	B	C	D	E	F	G	H	I	J
PCFY -P40VGM-E	1,000	904	918	983	933	210	180	157	201	241
PCFY -P63VGM-E	1,310	1,214	1,228	1,290	1,240	210	180	157	201	241
PCFY -P100VGM-E	1,310	1,214	1,228	1,290	1,240	270	207	217	198	245
PCFY -P125VGM-E	1,620	1,524	1,535	1,600	1,547	270	207	217	198	245

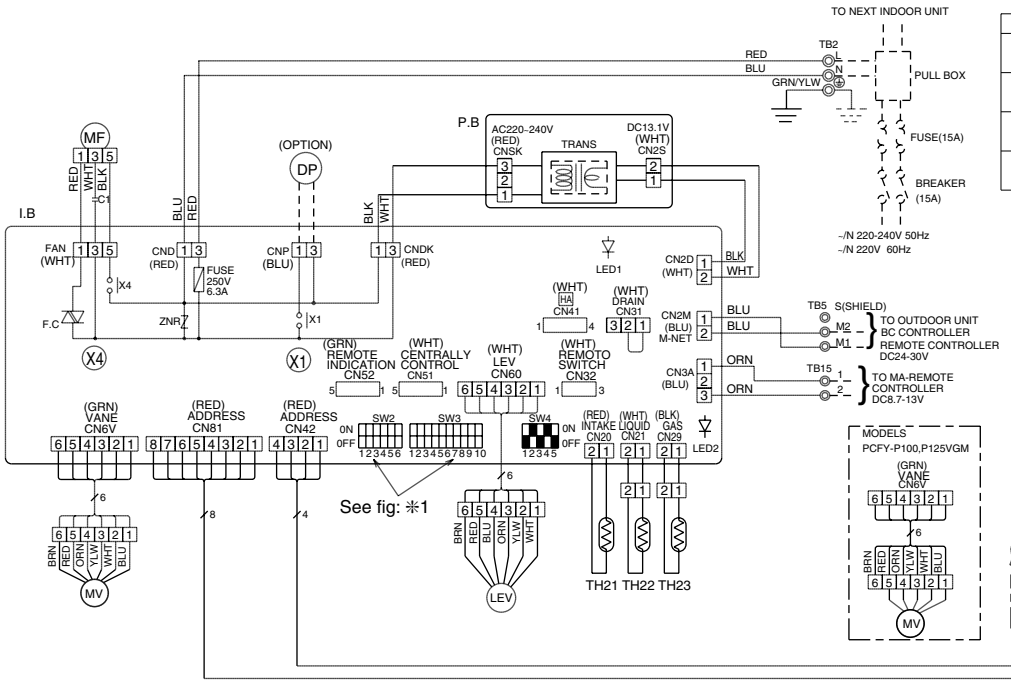
5. Electrical Wiring Diagram

<SYMBOL EXPLANATION>

Symbol		Name		Symbol	Name		Symbol		Name	
I.B		Indoor controller board		C1	Capacitor(fan motor)		A.B		Circuit board	Address
	CN32	Connector	Remote switch	LEV	Linear expansion valve			SW1	Switch	Mode selection
	CN51		Centrally control	MF	Fan motor(with inner thermo)			SW5		Voltage selection
	CN52		Remote indication	MV	Vane motor			SW11		Address setting 1st digit
	CNP		Drain-up machine	TH21	Thermistor	Room temp. detection (0˚C/15kΩ,25˚C/5.4kΩ)		SW12		Address setting 2nd digit
	F.C	Fan phase control						SW14		Connection No.
	FUSE	Fuse (6.3A)		TH22		Pipe temp. detection / Liquid (0˚C/15kΩ,25˚C/5.4kΩ)		SWA	Ceiling heigh selector	
	SW2	Switch	Capacity code					SWC	Option selector	
	SW3		Mode selection	TH23		Pipe temp. detection / Gas (0˚C/15kΩ,25˚C/5.4kΩ)				
	SW4		Model selection							
	X1	Aux.Relay	Drain-up machine	TB2	Terminal block	Power supply				
	X4		Fan motor	TB5		Transmission				
	ZNR	Varistor		TB15		MA-remote controller				
P.B		Indoor power board		DP	Drain-up machine (OPTION)					
				DS	Drain sensor (OPTION)					

Led on indoor board for sevice

Mark	Meaning	Function
LED1	Main power supply	Main power supply (indoor unit:220-240V) power on ⇒ lamp is lit
LED2	Power supply for MA-Remote controller	Power supply for MA-Remote controller on → lamp is lit



※1

Models	SW2	SW3
P40	ON OFF 1 2 3 4 5 6	ON OFF 1 2 3 4 5 6 7 8 9 10
P63	ON OFF 1 2 3 4 5 6	
P100	ON OFF 1 2 3 4 5 6	ON OFF 1 2 3 4 5 6 7 8 9 10
P125	ON OFF 1 2 3 4 5 6	

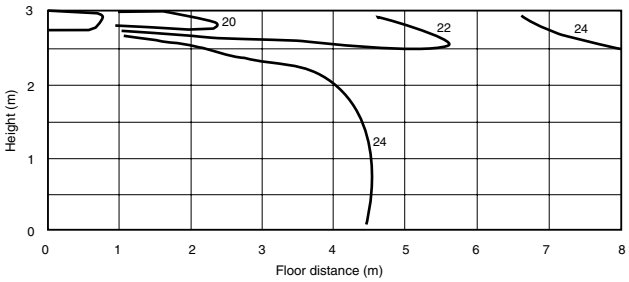
Note

1.At servicing for outdoor unit,always follow the wiring diagram of outdoor unit.
2.In case of using MA-Remote controller, please connect to TB15.
(Remote controller wire is non-polar.)
3.In case of using M-NET, please connect to TB5.(Transmission line is non-polar.)
4.Symbol[S] of TB5 is the shield wire connection.
5.Symbols used in wiring diagram above are,
◎:Terminal block, ☐☐☐ :Connector.
6. The setting of the SW2 dip switches differs in the capacity. For the detail,refer to the fig: ※1.
7. Please set the switch SW5 according to the power supply voltage.
Set SW5 to 240V side when the power supply is 230 and 240 volts.
When the power supply is 220 volts,set SW5 to 220V side.
8. Fasten terminal of the terminal board "TB5" equips lock system.
To remove the fasten terminal,pull it while pressing the protrudingn portion (locking lever)of the terminal.
Connection of the fasten terminal,protruding portion shouid face upward.

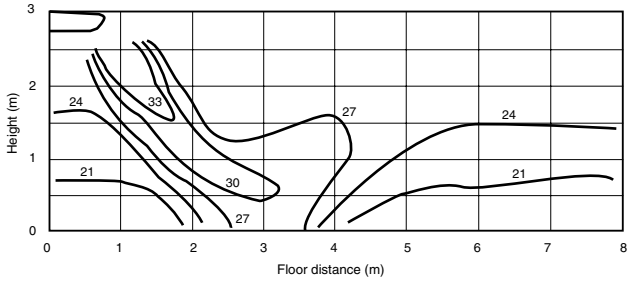
6. Temperature/Airflow distribution

6.1 Temperature distribution

<Cooling mode>
Flow angle : 0˚

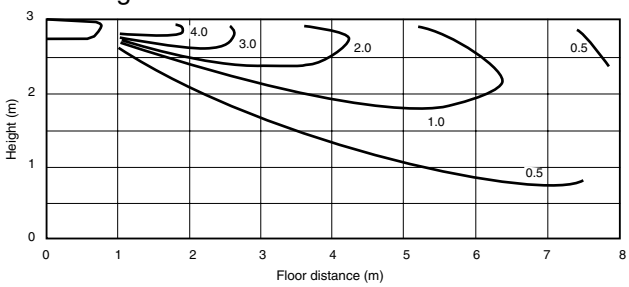


<Heating mode>
Flow angle : 60˚



6.2 Airflow distribution

<Fan mode>
Flow angle : 0˚



<Fan mode>
Flow angle : 60˚

OA Processing unit

GUF-RD3
GUF-RDH3

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   2.2 Fan characteristics curves Ⅰ-214

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4. Wiring Diagrams Ⅰ-216

1. Specifications

Item \ Model			GUF-50RDH3	GUF-100RDH3	GUF-50RD3	GUF-100RD3
Power supply			Single phase 220-240V ~50Hz			
Current		A	1.15	2.20	1.15	2.20
Input		W	235-265	480-505	235-265	480-505
Cooling capacity		kW	5.29<1.66>	10.81<3.49>	5.29<1.66>	10.81<3.49>
Heating capacity		kW	6.42<2.25>	13.00<4.70>	6.42<2.25>	13.00<4.70>
Fan	Type × No.		SA : Centrifugal fan [Sirocco fan] ×1 EA : Centrifugal fan [Sirocco fan] ×1			
	Air volume	m^3/h	500	1000	500	1000
		L/S	139	278	139	278
	External static pressure	Pa	125	135	140	140
Noise level ⁕		dB(A)	33.5-34.5	38-39	33.5-34.5	38-39
Humidifying capacity		kg/h	2.7	5.4	-	-
Cladding			Galvanized steel plate			
Dimensions	Height	mm	317	398	317	398
	Width	mm	1016	1231	1016	1231
	Depth	mm	1288	1580	1288	1580
Weight (drying)		kg	57	98	54	92
Motor -			Totally enclosed capacitor permanent split-phase induction motor, 4 poles, 2 units			
Air filter	Supply air		Non-woven fabrics filter : Gravitational method 82% +High efficiency filter : Colorimetric method 65% (optional parts)			
	Exhaust air		Non-woven fabrics filter : Gravitational method 82%			
Total heat exchanger (Lossnay element)			Partition, spacing plate-special treated paper			
Direct expansion heat exchanger coil			Aluminum plate fins and copper tubes			
Humidifying			Permeable film humidifier		–	15.88
Refrigerant pipe dimension	Gas	ϕ mm	12.7	15.88	12.7	9.52
	Liquid	ϕ mm	6.35	9.52	6.35	
Drain pipe dimension			VP25			
Capacity equivalent to the indoor unit			P32	P63	P32	P63

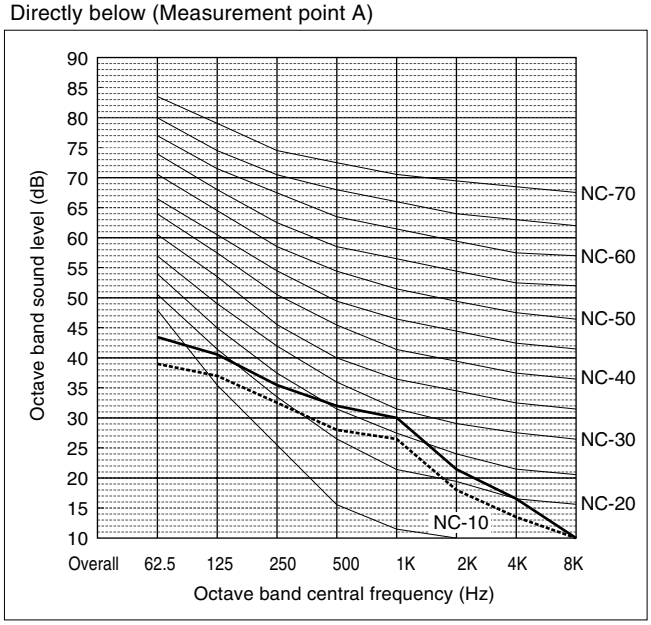
Note: 1 The figures in < > indicates the heat recovery at Lossnay element.
2 Cooling/Heating capacity indicates the maximum value at operation under the following condition.
Cooling : Indoor : 27˚C DB/19.5˚C WB Outdoor : 35˚C DB/24˚C WB
Heating : Indoor : 21˚C DB/14.6˚C WB Outdoor : 7˚C DB/6˚C WB
3 The values given in the table for the noise level reflect the levels measured at a position 1.5 meters immediately below the unit in anechoic chamber.
4 The noise at the air outlets (at a 45˚ angel, 1.5 meters in front) is about 5-6 dB(A) higher than the values given in the table.
5 The above values apply during Lossnay ventilation when the fan speed is set to high speed.
6 Specification may be subject to change without notice.
⁕ It is measured in anechoic room.

2. Sound Levels

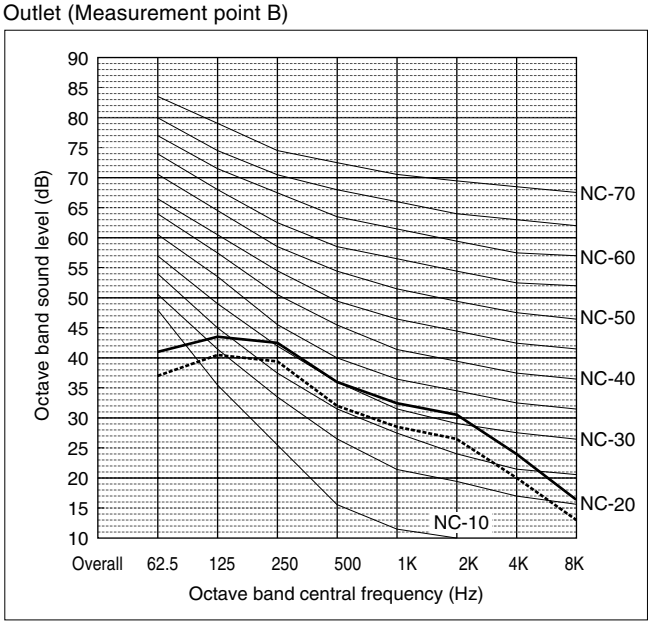
2.1 NC curves

GUF-50RDH3/50RD3

Directly below (Measurement point A)

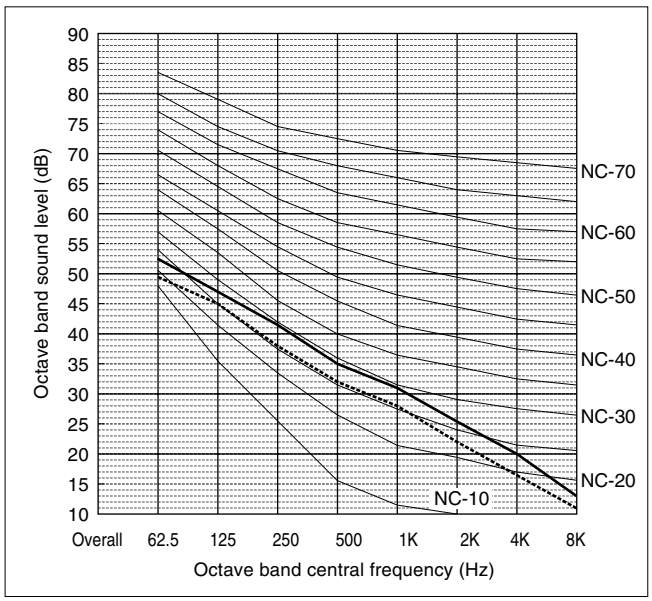


Outlet (Measurement point B)

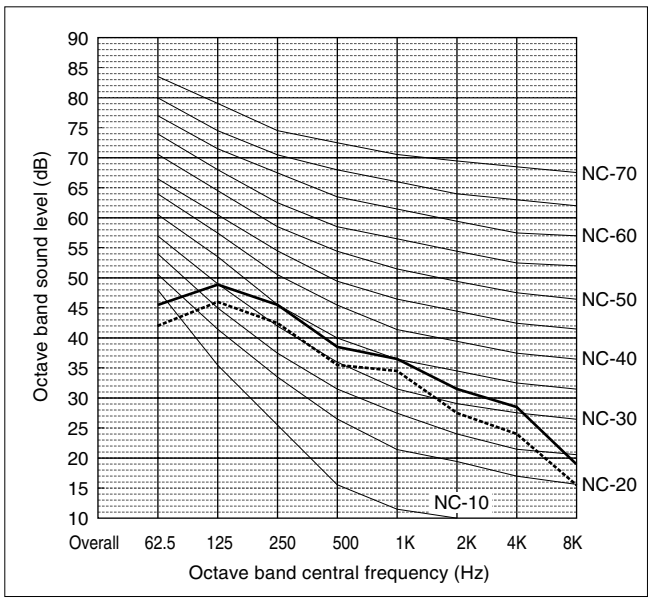


GUF-100RDH3/100RD3

Directly below (Measurement point A)



Outlet (Measurement point B)

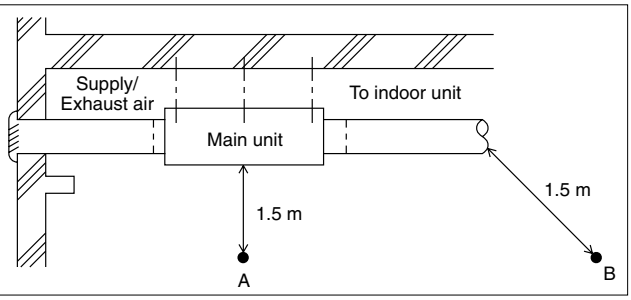


● Measurement Condition

Measurement site:

Mitsubishi Electric Co.,
Nakatsugawa Works
Anechoic chamber

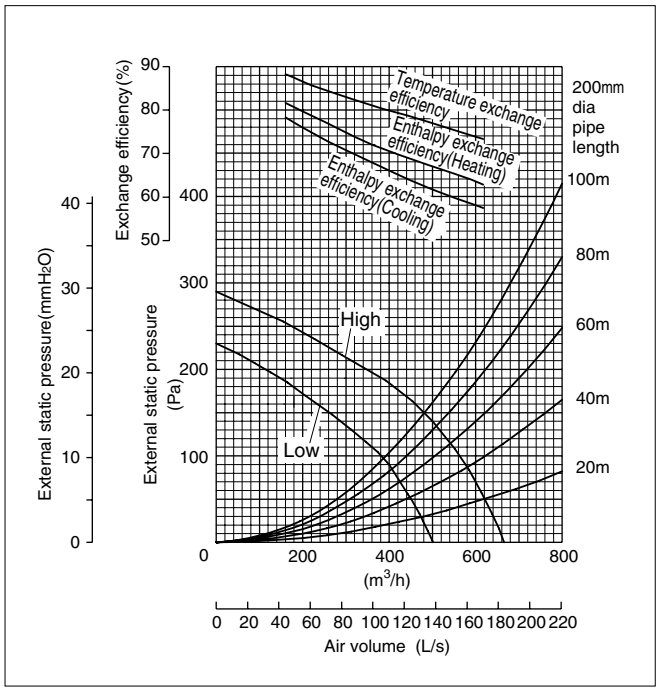
<Ceiling recessed type>



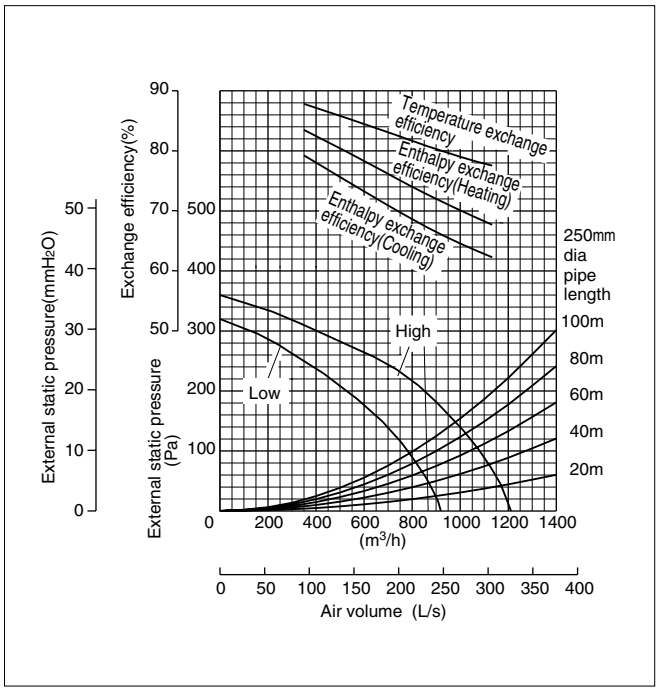
2.2 Fan characteristics curves

■ Humidifying Type

GUF-50RDH3

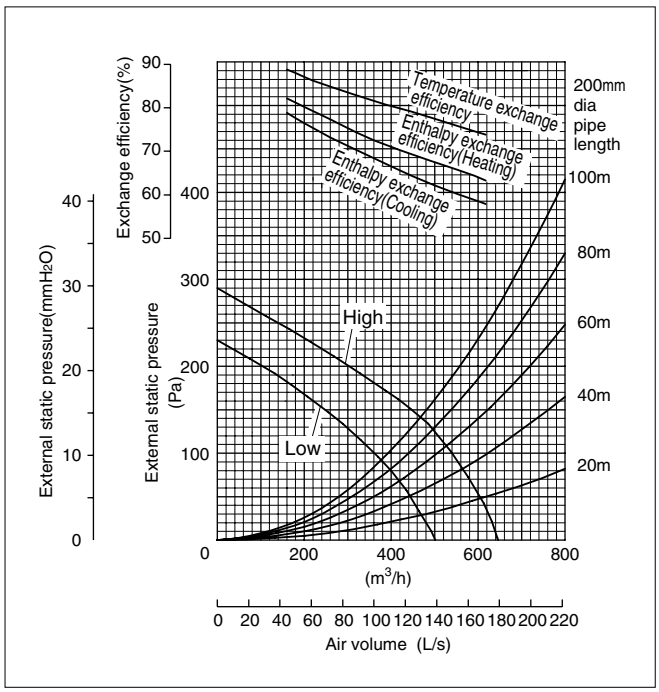


GUF-100RDH3

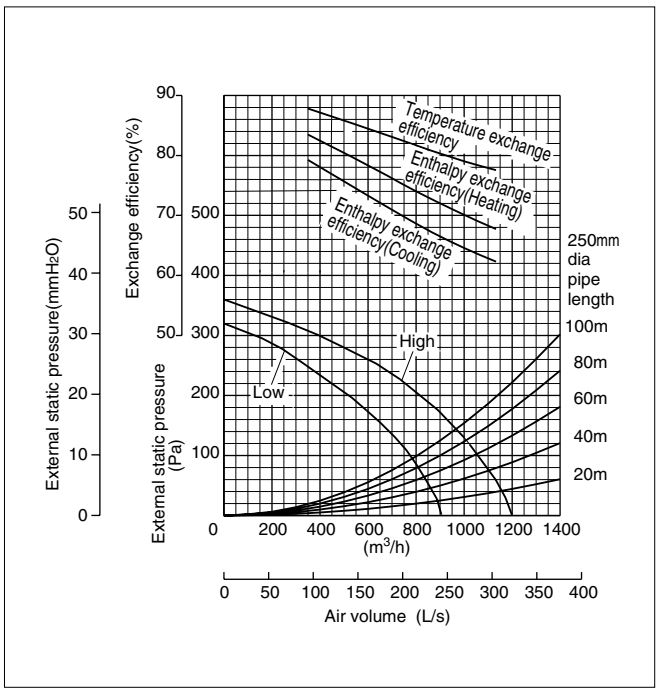


■ Non-Humidifying Type

GUF-50RD3



GUF-100RD3

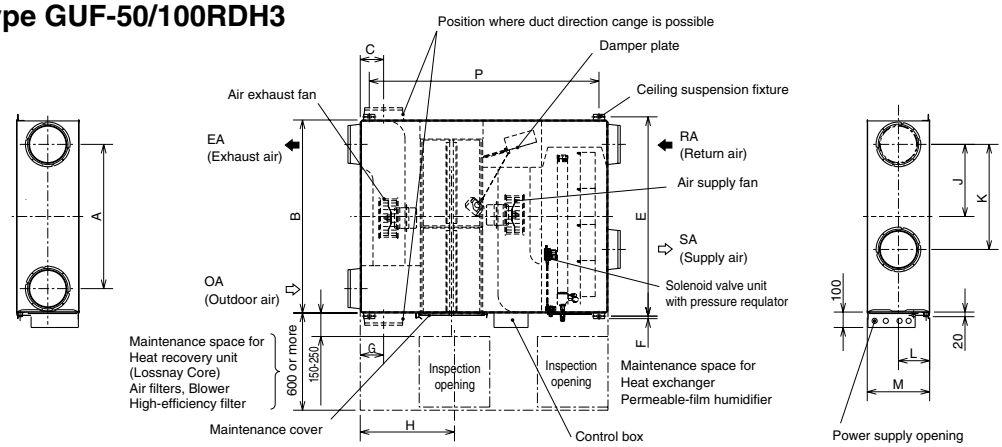


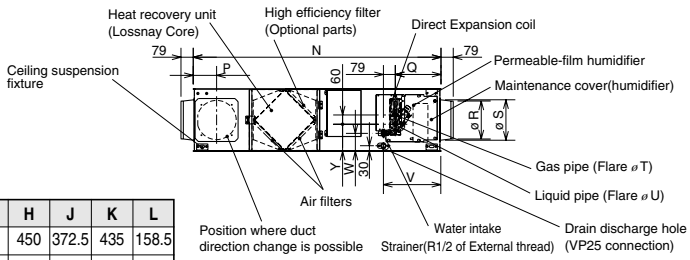
3. External Dimension

GUF-50, 100RD(H)3

Unit : mm

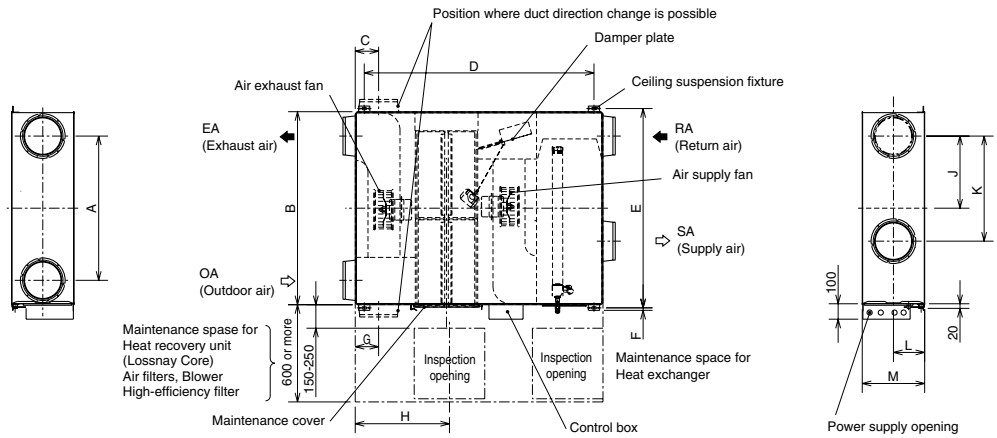
Humidifying Type GUF-50/100RDH3

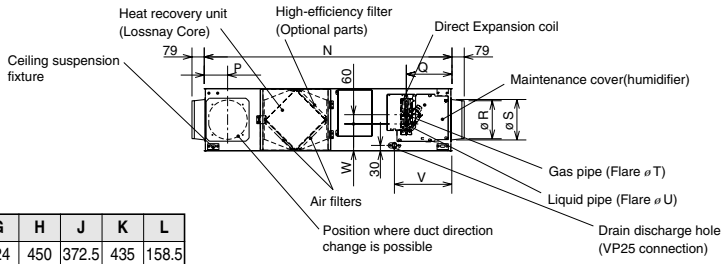




Model	A	B	C	D	E	F	G	H	J	K	L
GUF-50RDH3	745	1,016	124	1,185	1,048	22	124	450	372.5	435	158.5
GUF-100RDH3	920	1,231	149	1,465	1,271	16	149	600	460	670	199
Model	**M**	**N**	**P**	**Q**	**R**	**S**	**T**	**U**	**V**	**W**	**Y**
GUF-50RDH3	317	1,288	124	266	192	208	12.7	6.35	347	99	135
GUF-100RDH3	398	1,580	149	280	242	258	15.88	9.52	361	110	169

Non-Humidifying Type GUF-50/100RD3



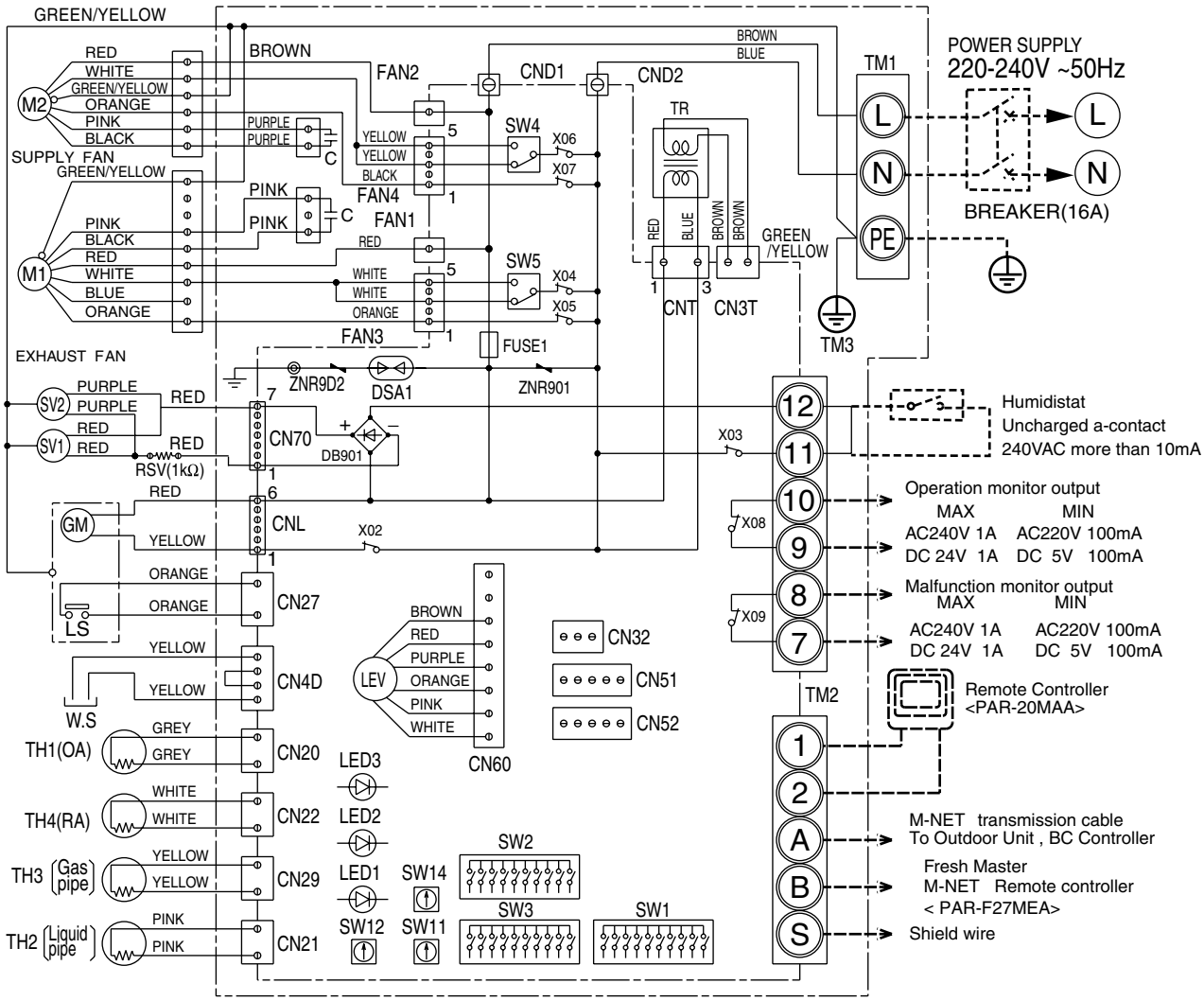


Model	A	B	C	D	E	F	G	H	J	K	L
GUF-50RD3	745	1,016	124	1,185	1,048	22	124	450	372.5	435	158.5
GUF-100RD3	920	1,231	149	1,465	1,271	16	149	600	460	670	199
Model	**M**	**N**	**P**	**Q**	**R**	**S**	**T**	**U**	**V**	**W**	
GUF-50RD3	317	1,288	124	266	192	208	12.7	6.35	347	135	
GUF-100RD3	398	1,580	149	280	242	258	15.88	9.52	361	169	

4. Wiring Diagrams

Humidifying Type GUF-50/100RDH3

- TM1, TM2 shown in dotted lines are field work.
- Be sure to connect the grounding wire.
- Breakers and controller switches should be provided by the customer.



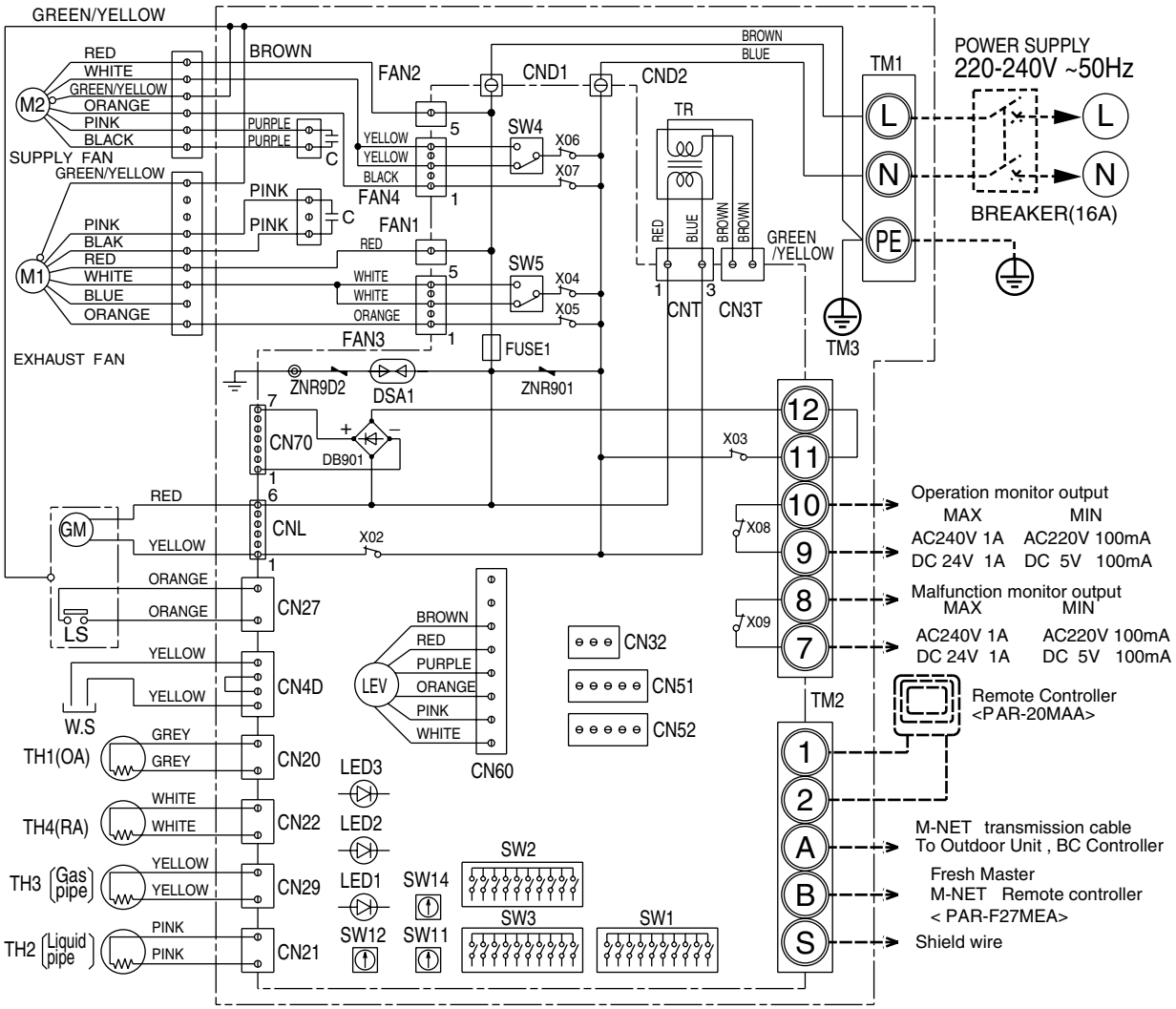
MARK ◎ : indicates terminal block, ⦶ : connector
⦶ : board insertion connector or fastening connector of control board.

Symbol Explanation

Symbol	Name	Symbol	Name	Symbol	Name
M1	Fan motor (exhaust)	TM1	Terminal block (power supply)	1, 2	Remote control terminal
M2	Fan motor (supply)	TM2	Terminal block (transmission)	A, B	M-NET transmission terminal
C	Capacitor	TM3	Terminal block (humidistat, monitor)	S	Shield
W.S	Water sensor	SW1	Switch (function selection)	CND1, CND2	Connector (power supply)
SV1	Solenoid valve (pressure regulator)	SW2	Switch (capacity code setting)	X02-X09	Relay
SV2	Solenoid valve (exhaust)	SW3	Switch (function selection)	TR	Transformer
TH1	Thermistor (outdoor air temp. detection)	SW4,SW5	Switch	GM	Damper motor
TH2	Thermistor (pipe temp. detection/liquid)	SW11	Switch (1st digit address set)	LS	Limit switch
TH3	Thermistor (pipe temp. detection/gas)	SW12	Switch (2nd digit address set)	LED1	Power supply monitor
TH4	Thermistor (room air temp. detection)	SW14	Switch (branch NO. set)	LED2	MA Remote contolle
LEV	Electronic linear expansion valve	CN32	Connecter (Remote input)		Power supply monitor
RSV	Resistance (solenoid valve)	CN51,CN52	Connecter (Remote input/output)	LED3	M-NET Power supply monitor

Non-Humidifying Type GUF-50/100RD3

- TM1, TM2 shown in dotted lines are field work.
- Be sure to connect the grounding wire.
- Breakers and controller switches should be provided by the customer.



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TH3	Thermistor (pipe temp. detection/gas)	SW4,SW5	Switch	GM	Damper motor
TH4	Thermistor (room air temp. detection)	SW11	Switch (1st digit address set)	LS	Limit switch
LEV	Electronic linear expansion valve	SW12	Switch (2nd digit address set)	LED1	Power supply monitor
		SW14	Switch (branch NO. set)	LED2	MA Remote contoller
		CN32	Connecter (Remote input)		Power supply monitor
		CN51,CN52	Connecter (Remote input/output)	LED3	M-NET Power supply monitor

LOSSNAY unit LGH-RX3-E

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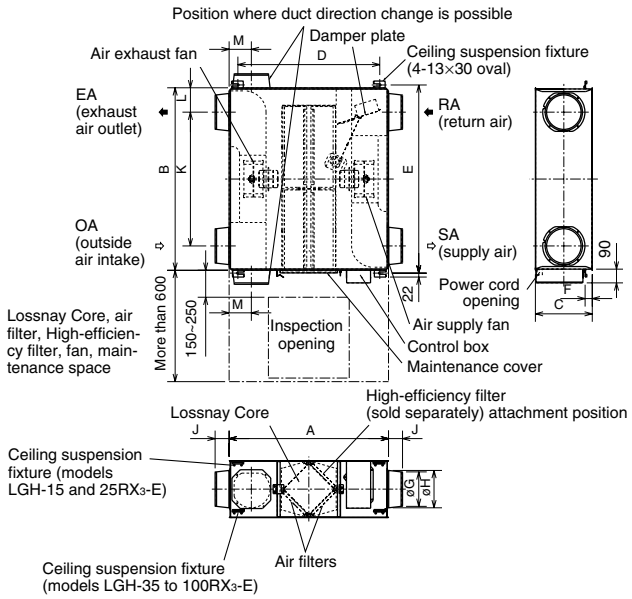
1. Dimensions

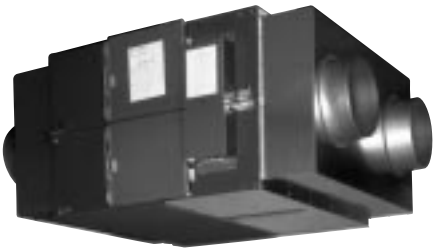
LGH-15RX3-E to LGH-100RX3-E

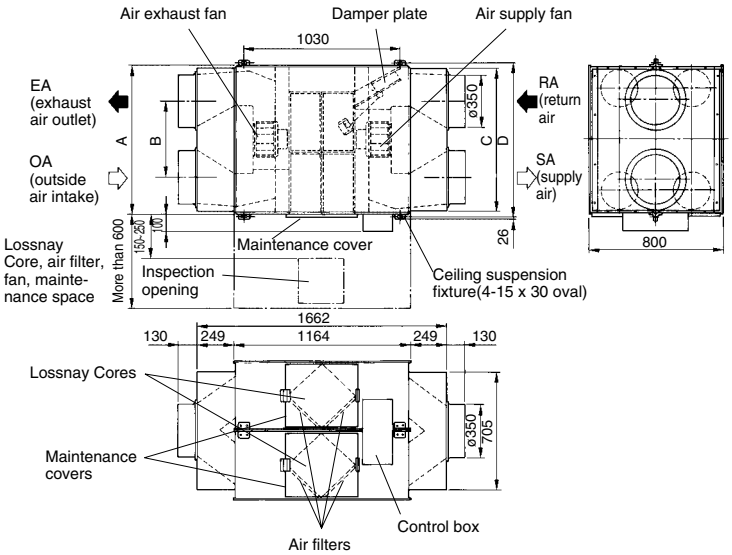


Accessory parts

- Mounting screws.....×18
- Duct connecting flanges .....×4
  (double flanges at SA and EA sides)
- Protective cover.....×1
  <for installing upside down>
- Slim-Lossnay connection cable (gray: two wires)....×1

LGH-150RX3-E and LGH-200RX3-E





Accessory parts

- Duct connecting flanges.....×4
- Mounting screws.....×34
- Washers.....×32
- Protective cover.....×1
  <for installing upside down>
- Slim-Lossnay connection cable (gray: two wires)....×1

LGH-15RX3-E to LGH-100RX3-E

Unit (mm)

Model	Dimensions			Ceiling suspension fixture pitch			Nominal diameter	Duct connecting flange			Duct pitch			Weight (kg)
	A	B	C	D	E	F		G	H	J	K	L	M	
LGH-15RX3-E	780	610	275	700	641	10*	ø100	97.5	110	54	450	80	119	17
LGH-25RX3-E	780	735	275	700	765	10*	ø150	142	160	63	530	102.5	102	21
LGH-35RX3-E	888	874	317	790	906	40	ø150	142	160	63	650	112	124	30
LGH-50RX3-E	888	1,016	317	790	1,048	40	ø200	192	208	79	745	135.5	124	33
LGH-80RX3-E	1,164	1,004	398	1,030	1,036	10	ø250	242	258	79	690	157	149	61
LGH-100RX3-E	1,164	1,231	398	1,030	1,263	10	ø250	242	258	79	920	155.5	149	72

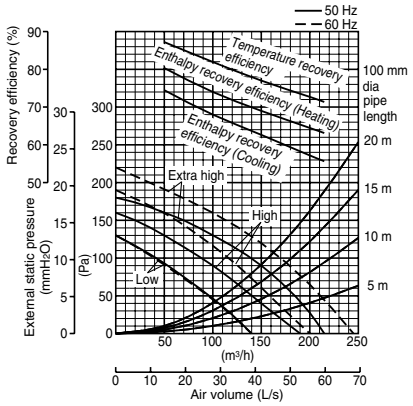
*Shows the distance from the ceiling.

Unit (mm)

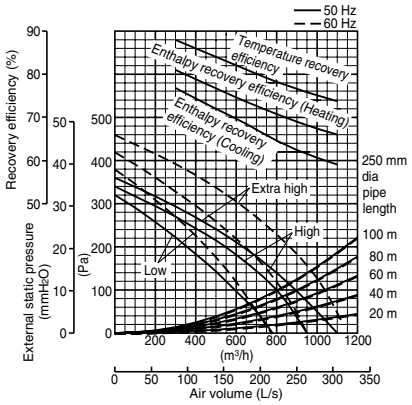
Model	A	B	C	D	Weight (kg)
LGH-150RX3-E	1,004	510	964	1,046	154
LGH-200RX3-E	1,231	740	1,194	1,273	179

2. Performance

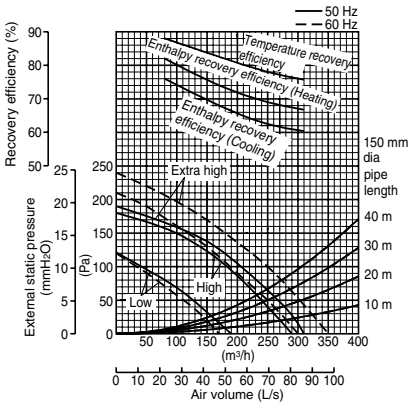
LGH-15RX3-E



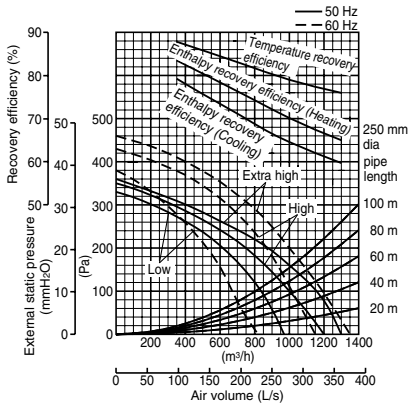
LGH-80RX3-E



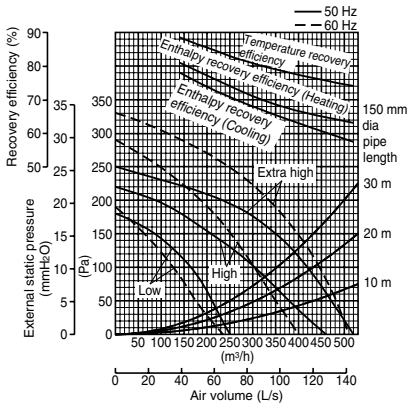
LGH-25RX3-E



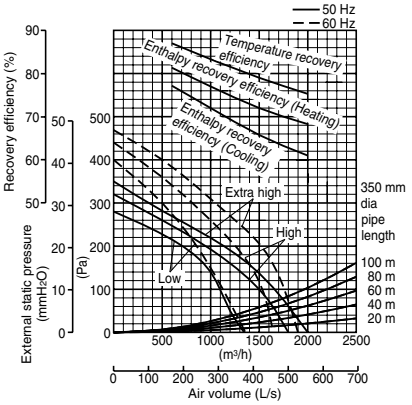
LGH-100RX3-E



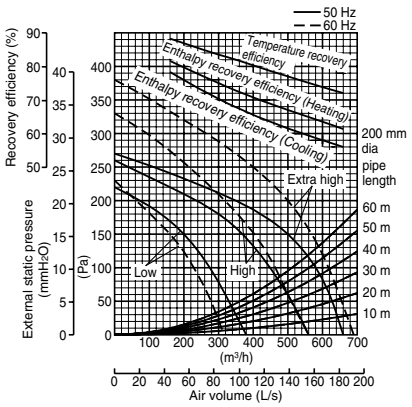
LGH-35RX3-E



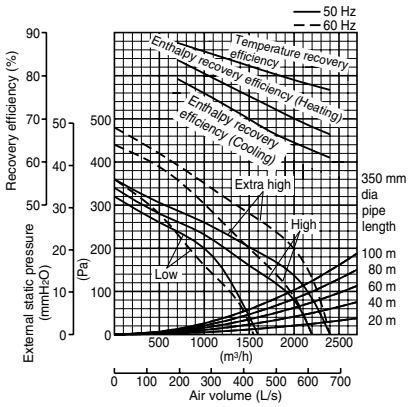
LGH-150RX3-E



LGH-50RX3-E



LGH-200RX3-E



LOSSNAY

3. Specifications

LGH-15RX3-E

Model		LGH-15RX3-E					
Power source		Single phase 220-240V～50Hz/220V～60Hz					
Ventilation mode		Lossnay ventilation			Bypass ventilation		
Speed		Extra high	High	Low	Extra high	High	Low
Current (A)		0.48-0.52/0.57	0.34-0.35/0.39	0.24-0.25/0.27	0.48-0.52/0.58	0.34-0.36/0.40	0.24-0.25/0.27
Input (W)		104-122/119	74-83/85	52-59/58	104-123/120	74-85/85	52-59/58
Air volume	(m^3/h)	150/150	150/150	120/110	150/150	150/150	120/110
	(L/s)	42/42	42/42	33/31	42/42	42/42	33/31
External static pressure	(mmH_2O)	9.2/12.2	4.1/6.1	2.6/3.6	9.2/12.2	4.1/6.1	2.6/3.6
	(Pa)	90/120	40/60	25/35	90/120	40/60	25/35
Temperature recovery efficiency (%)		77/77	77/77	80/81	—	—	—
Enthalpy recovery efficiency (%)	Heating	69/69	69/69	72/73	—	—	—
	Cooling	62.5/62.5	62.5/62.5	66/67	—	—	—
Noise (dB) (Measured at 1.5m under the center of the unit)		26-27/28	24-25/25	21-22/22	26-27/28	24-25/25.5	21-22/22
Weight (kg)		17					
Starting current		Under 0.8/0.7A or less					

LGH-25RX3-E

Model		LGH-25RX3-E					
Power source		Single phase 220-240V～50Hz/220V～60Hz					
Ventilation mode		Lossnay ventilation			Bypass ventilation		
Speed		Extra high	High	Low	Extra high	High	Low
Current (A)		0.51-0.54/0.63	0.42-0.44/0.49	0.25-0.27/0.28	0.52-0.55/0.63	0.42-0.45/0.50	0.25-0.27/0.27
Input (W)		111-128/131	91-104/106	54-64/60	112-130/132	91-105/107	54-64/58
Air volume	(m^3/h)	250/250	250/250	165/150	250/250	250/250	165/150
	(L/s)	69/69	69/69	46/42	69/69	69/69	46/42
External static pressure	(mmH_2O)	6.6/10.2	4.1/5.1	2.0/2.0	6.6/10.2	4.1/5.1	2.0/2.0
	(Pa)	65/100	40/50	20/20	65/100	40/50	20/20
Temperature recovery efficiency (%)		78/78	78/78	83/84	—	—	—
Enthalpy recovery efficiency (%)	Heating	69/69	69/69	74/75	—	—	—
	Cooling	62.5/62.5	62.5/62.5	68/70	—	—	—
Noise (dB) (Measured at 1.5m under the center of the unit)		26.5-27.5/28.5	25-26/25.5	21-22/21	27-28/29	25.5-26.5/26	21-22/21
Weight (kg)		21					
Starting current		Under 0.8/0.7A or less					

LGH-35RX3-E

Model		LGH-35RX3-E					
Power source		Single phase 220-240V～50Hz/220V～60Hz					
Ventilation mode		Lossnay ventilation			Bypass ventilation		
Speed		Extra high	High	Low	Extra high	High	Low
Current (A)		0.78-0.79/0.99	0.71-0.71/0.83	0.46-0.48/0.46	0.81-0.82/1.00	0.72-0.73/0.83	0.46-0.49/0.46
Input (W)		169-187/215	154-167/180	97-110/97	176-192/217	156-172/180	97-111/97
Air volume	(m^3/h)	350/350	350/350	230/210	350/350	350/320	230/210
	(L/s)	97/97	97/97	64/58	97/97	97/89	64/58
External static pressure	(mmH_2O)	15.3/19.4	7.1/5.1	2.6/2.0	15.3/19.4	7.1/5.1	2.7/2.0
	(Pa)	150/190	70/50	25/20	150/190	70/50	26/20
Temperature recovery efficiency (%)		79/79	79/79	84/85	—	—	—
Enthalpy recovery efficiency (%)	Heating	68.5/68.5	68.5/68.5	75.5/76.5	—	—	—
	Cooling	65.5/65.5	65.5/65.5	72/73	—	—	—
Noise (dB) (Measured at 1.5m under the center of the unit)		31-32/32.5	28-30/27	23-24/21	31.5-32.5/33.5	28-30/28	23-24/21
Weight (kg)		30					
Starting current		Under 1.6/1.5A or less					

LGH-50RX3-E

Model		LGH-50RX3-E					
Power source		Single phase 220-240V～50Hz/220V～60Hz					
Ventilation mode		Lossnay ventilation			Bypass ventilation		
Speed		Extra high	High	Low	Extra high	High	Low
Current (A)		0.94-0.95/1.21	0.89-0.90/1.05	0.57-0.60/0.60	0.95-0.96/1.22	0.90-0.93/1.05	0.58-0.60/0.60
Input (W)		204-225/262	193-214/231	123-142/130	206-228/263	196-221/228	125-142/130
Air volume	(m^3/h)	500/500	500/500	350/300	500/500	500/500	350/300
	(L/s)	139/139	139/139	97/83	139/139	139/139	97/83
External static pressure	(mmH_2O)	15.3/20.4	6.1/6.1	3.1/2.0	15.3/20.4	6.1/6.1	3.1/2.0
	(Pa)	150/200	60/60	30/20	150/200	60/60	30/20
Temperature recovery efficiency (%)		77/77	77/77	82/83.5	—	—	—
Enthalpy recovery efficiency (%)	Heating	67/67	67/67	73/75	—	—	—
	Cooling	61.5/61.5	61.5/61.5	68/70	—	—	—
Noise (dB) (Measured at 1.5m under the center of the unit)		32.5-33.5/32.5	30-31/28.5	23.5-24.5/23	33.5-34.5/33.5	30.5-31.5/29.5	23.5-24.5/23
Weight (kg)		33					
Starting current		Under 1.9/1.7A or less					

LGH-80RX3-E

Model		LGH-80RX3-E					
Power source		Single phase 220-240V～50Hz/220V～60Hz					
Ventilation mode		Lossnay ventilation			Bypass ventilation		
Speed		Extra high	High	Low	Extra high	High	Low
Current (A)		1.8-1.8/2.1	1.7-1.7/1.9	1.4-1.4/1.5	1.7-1.7/2.0	1.6-1.6/1.8	1.4-1.4/1.4
Input (W)		392-418/455	368-396/405	304-332/315	370-394/425	348-374/390	298-330/305
Air volume	(m^3/h)	800/800	800/800	670/660	800/800	800/800	670/660
	(L/s)	222/222	222/222	186/183	222/222	222/222	186/183
External static pressure	(mmH_2O)	14.3/23.5	10.2/12.2	7.1/8.2	14.3/23.5	10.2/12.2	7.1/8.2
	(Pa)	140/230	100/120	70/80	140/230	100/120	70/80
Temperature recovery efficiency (%)		78/78	78/78	80.5/81	—	—	—
Enthalpy recovery efficiency (%)	Heating	71/71	71/71	73/73.5	—	—	—
	Cooling	64.5/64.5	64.5/64.5	68/68.5	—	—	—
Noise (dB) (Measured at 1.5m under the center of the unit)		33.5-34.5/35	32-33/31	30-31/29	34.5-35.5/36	33-34/32	30.5-31.5/29.5
Weight (kg)		61					
Starting current		Under 3.8/3.1A or less					

LGH-100RX3-E

Model		LGH-100RX3-E					
Power source		Single phase 220-240V～50Hz/220V～60Hz					
Ventilation mode		Lossnay ventilation			Bypass ventilation		
Speed		Extra high	High	Low	Extra high	High	Low
Current (A)		2.3-2.3/2.8	2.3-2.3/2.6	2.2-2.2/1.7	2.3-2.3/2.8	2.3-2.2/2.6	2.1-2.1/1.7
Input (W)		500-525/600	495-515/555	465-475/365	505-525/595	500-515/550	455-485/365
Air volume	(m^3/h)	1000/1000	1000/1000	870/720	1000/1000	1000/1000	870/720
	(L/s)	278/278	278/278	242/200	278/278	278/278	242/200
External static pressure	(mmH_2O)	16.3/20.4	10.2/11.2	8.2/6.1	16.3/20.4	10.2/11.2	8.2/6.1
	(Pa)	160/200	100/110	80/60	160/200	100/110	80/60
Temperature recovery efficiency (%)		79/79	79/79	81/83	—	—	—
Enthalpy recovery efficiency (%)	Heating	70/70	70/70	73/76	—	—	—
	Cooling	64.5/64.5	64.5/64.5	67/71	—	—	—
Noise (dB) (Measured at 1.5m under the center of the unit)		36-37/36	34-35/34	31.5-32.5/30	37-38/37	35-36/35	33-34/31
Weight (kg)		72					
Starting current		Under 5.7/5.0A or less					

LGH-150RX3-E

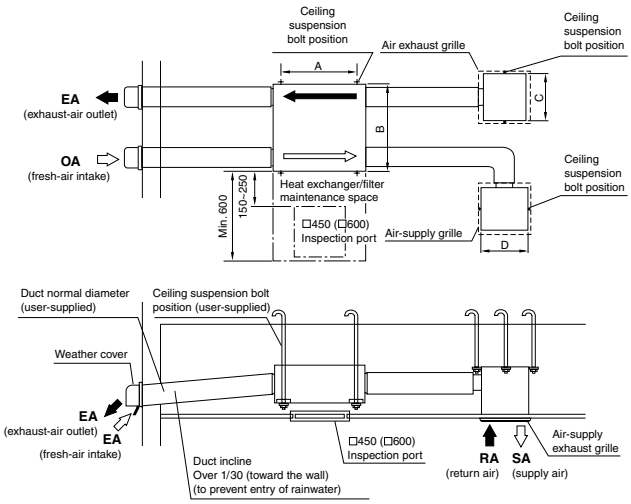
Model		LGH-150RX3-E					
Power source		Single phase 220-240V～50Hz/220V～60Hz					
Ventilation mode		Lossnay ventilation			Bypass ventilation		
Speed		Extra high	High	Low	Extra high	High	Low
Current (A)		3.3-3.3/4.2	3.1-3.1/3.7	2.7-2.8/2.9	3.2-3.2/4.2	3.0-3.0/3.7	2.6-2.6/2.9
Input (W)		720-785/915	670-730/805	585-660/630	695-760/905	650-705/800	565-615/630
Air volume	(m^3/h)	1500/1500	1500/1500	1200/1200	1500/1500	1500/1500	1200/1200
	(L/s)	417/417	417/417	333/333	417/417	417/417	333/333
External static pressure	(mmH_2O)	14.0/21.0	10.2/12.0	5.1/7.0	14.0/21.0	10.2/12.0	5.1/7.0
	(Pa)	137/206	100/118	50/69	137/206	100/118	50/69
Temperature recovery efficiency (%)		79/79	79/79	81/81	—	—	—
Enthalpy recovery efficiency (%)	Heating	72/72	72/72	75/75	—	—	—
	Cooling	65.5/65.5	65.5/65.5	69/69	—	—	—
Noise (dB) (Measured at 1.5m under the center of the unit)		36.5-37.5/37	35.5-36.5/36	32.5-33.5/33	36.5-37.5/37	35.5-36.5/36	32.5-33.5/33
Weight (kg)		154					
Starting current		Under 6.8/5.9A or less					

LGH-200RX3-E

Model		LGH-200RX3-E					
Power source		Single phase 220-240V～50Hz/220V～60Hz					
Ventilation mode		Lossnay ventilation			Bypass ventilation		
Speed		Extra high	High	Low	Extra high	High	Low
Current (A)		4.6-4.3/5.4	4.6-4.3/5.2	4.1-3.8/3.3	4.4-4.2/5.3	4.4-4.1/5.0	4.1-3.8/3.3
Input (W)		1000-1020/1175	995-1020/1130	900-905/735	960-995/1155	955-975/1090	885-900/720
Air volume	(m^3/h)	2000/2000	2000/2000	1400/1400	2000/2000	2000/2000	1400/1400
	(L/s)	556/556	556/556	389/389	556/556	556/556	389/389
External static pressure	(mmH_2O)	14.0/20.0	8.2/9.0	8.5/7.0	14.0/20.0	8.2/9.0	8.5/7.0
	(Pa)	137/196	80/88	83/69	137/196	80/88	83/69
Temperature recovery efficiency (%)		79/79	79/79	83/83	—	—	—
Enthalpy recovery efficiency (%)	Heating	70/70	70/70	76/76	—	—	—
	Cooling	64.5/64.5	64.5/64.5	71/71	—	—	—
Noise (dB) (Measured at 1.5m under the center of the unit)		39-40/38.5	37-38/36.5	35.5-36.5/34.5	39.5-40.5/38.5	37.5-38.5/36.5	36-37/34.5
Weight (kg)		179					
Starting current		Under 13.0/9.7A or less					

4. Sample Installations

LGH-15RX3-E to 100RX3-E

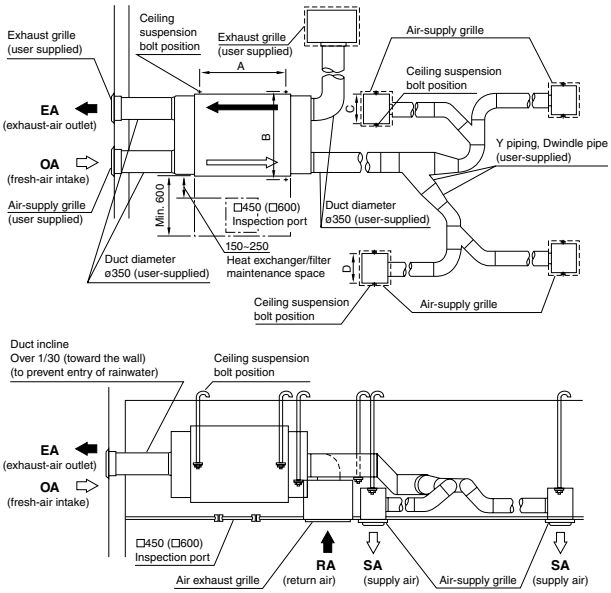


- An inspection port (□450 or □600) must be installed on the filter and Lossnay Core removing side.
- Provide heat insulation to prevent moisture condensation along the two outside ducts (fresh-air intake and exhaust-air outlet).
- Ceiling installation hardware can be attached to the top of the unit. (models LGH-35 to 100RX3-E)
- Do not use vent caps or round hoods in places directly exposed to rain.

(Unit: mm)

	A	B	C	D
LGH-15RX3-E	700	641	334	334
LGH-25RX3-E	700	765	334	334
LGH-35RX3-E	790	906	334	334
LGH-50RX3-E	790	1,048	414	414
LGH-80RX3-E	1,030	1,036	414	414
LGH-100RX3-E	1,030	1,263	414	414

LGH-150RX3-E and 200RX3-E



- An inspection port (□450 or □600) must be installed on the filter and Lossnay Core removing side.
- Provide heat insulation to prevent moisture condensation along the two outside ducts (fresh-air intake and exhaust-air outlet).
- Where rain falls directly on the machinery, use the weather cover to prevent entry of rainwater.

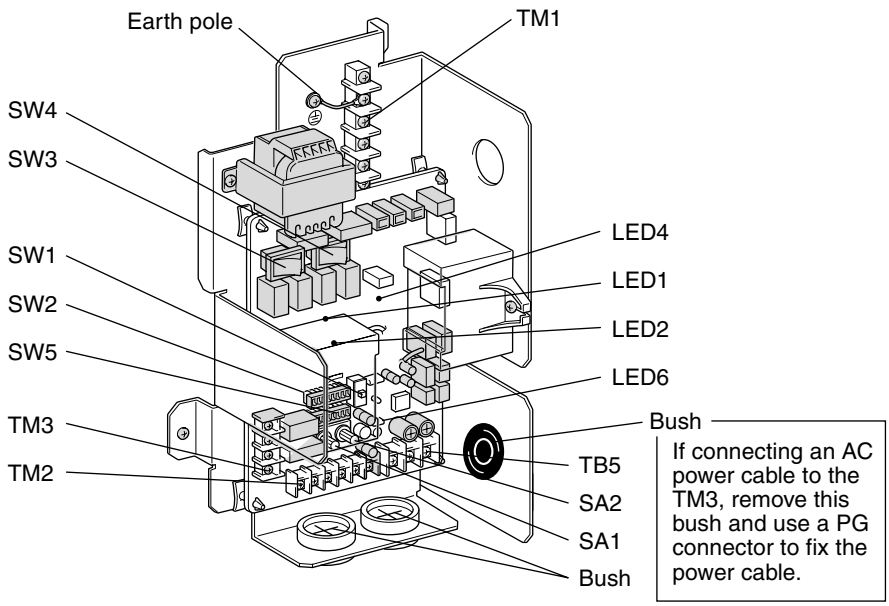
(Unit: mm)

	A	B	C	D
LGH-150RX3-E	1,030	1,046	414	414
LGH-200RX3-E	1,030	1,273	414	414

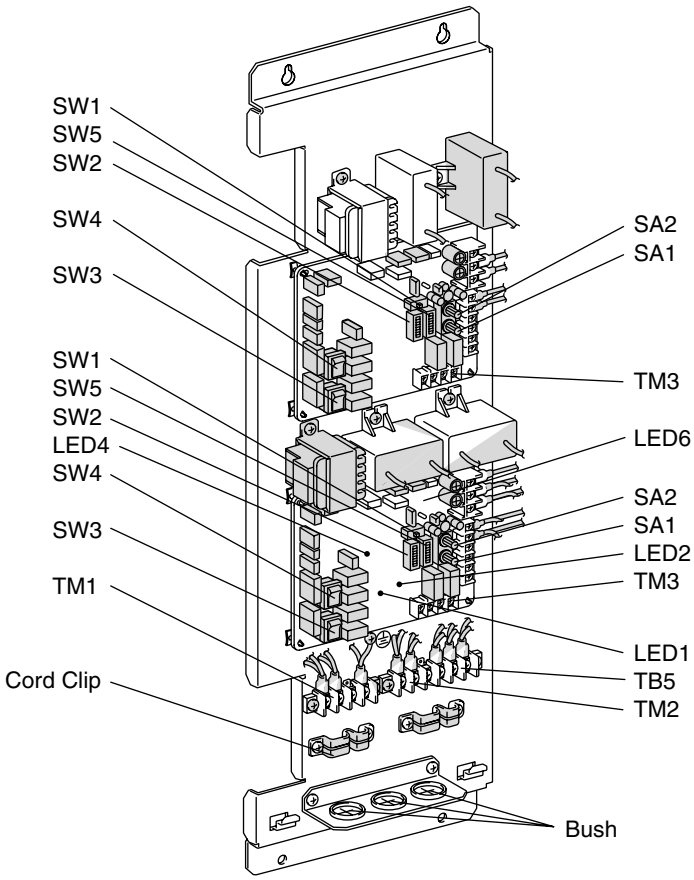
Installation conditions:
- Ambient conditions: Temperature -10°C to +40°C, relative humidity less than 80%. When condensation is expected to form, heat up the outside air using a duct heater, etc.
- Outside air intake conditions: Temperature -15°C to +40°C, relative humidity less than 80%.

LOSSNAY

LGH-15RX3-E to 100RX3-E



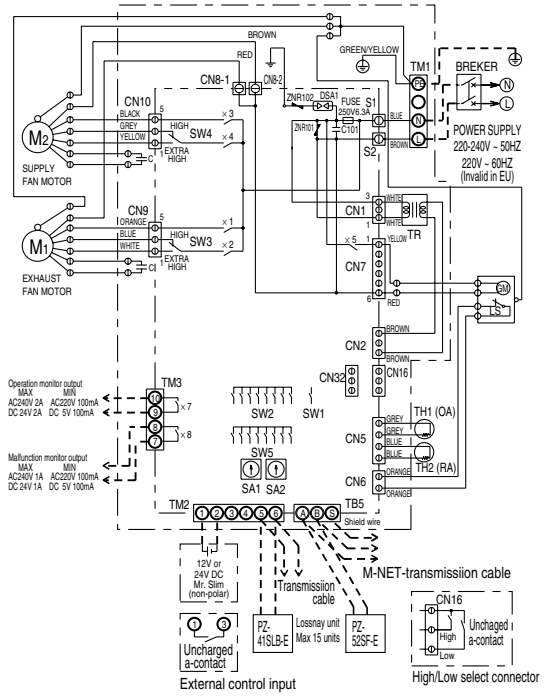
LGH-150RX3-E and 200RX3-E



LOSSNAY

6. Wiring Diagrams

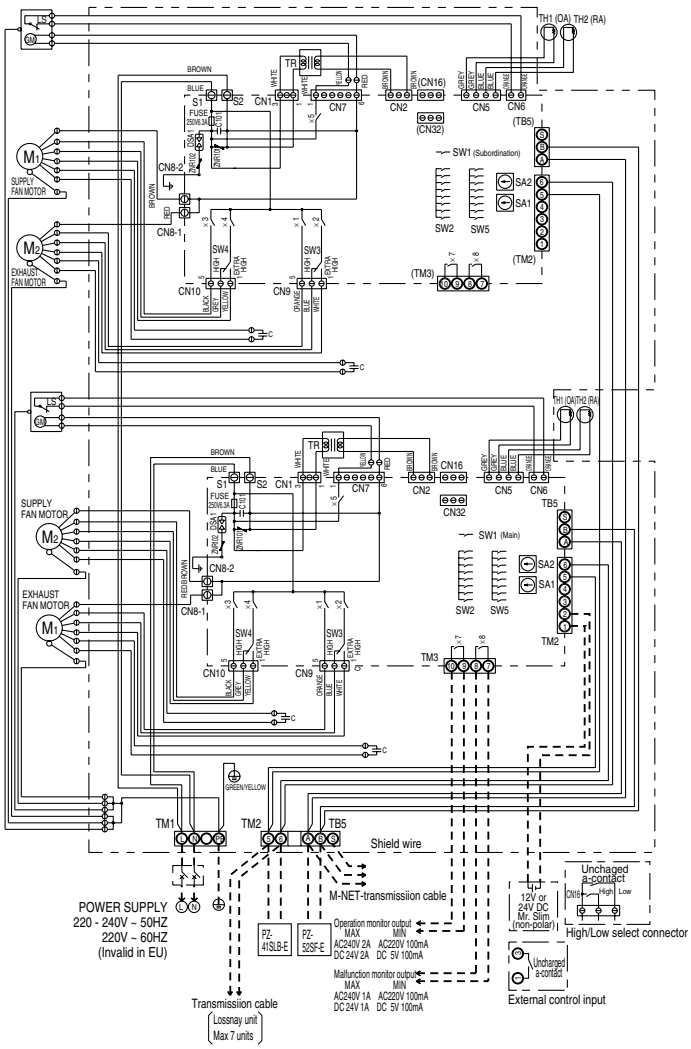
LGH-15RX3-E to 100RX3-E



- Connect the wires shown as dotted lines.
- Be sure to connect the grounding wire.
- Breaker should be provided by the customer.

Symbol explanation	
M1:	Motor for exhaust fan
M2:	Motor for supply fan
C:	Capacitor
GM:	Motor for Bypass movement
LS:	Microswitch
TH1:	Thermistor for outside air
TH2:	Thermistor for return air
SW1:	Switch (Main/Sub change)
SW2, 5:	Switch (Function selection)
SW3:	High/E. High select switch (Exhaust fan)
SW4:	High/E. High select switch (Supply fan)
TM1:	Terminal block (Power supply)
TM2:	Terminal block (Transmission cable and external control input)
TM3:	Terminal block (Monitor output)
TB5:	Terminal block (M-NET Transmission cable)
S1, S2:	Connector (Power supply)
TR:	Control circuit transformer
X7:	Relay contact (for operation monitor output)
X8:	Relay contact (for malfunction monitor output)
CN1:	Connector (Transformer primary)
CN2:	Connector (Transformer secondary)
CN5:	Connector (Thermistor)
CN6:	Connector (Microswitch)
CN7:	Connector (Motor for bypass operation)
CN8-1:	Tab connector (Fan motor)
CN8-2:	Tab connector (Fan motor)
CN9:	Connector (Fan motor)
CN10:	Connector (Fan motor)
CN16:	Connector (High/Low switch)
CN32:	Connector (Remote control selection)
SA1:	Address setting rotary switch (10 digit)
SA2:	Address setting rotary switch (1 digit)
LED1:	Inspection indicator lamp
LED2:	Inspection indicator lamp
LED4:	Power supply indicator lamp
LED6:	M-NET indicator lamp
MARK	◎ : Indicates terminal block ⦶ : Connector ⦶ : Board insertion connector or fastening connector of control board

LGH-150RX3-E and 200RX3-E



- PZ-41SLB-E and PZ-52SF-E cannot be used simultaneously.

BC controller

CMB-P-V-G
CMB-P-V-GA
CMB-P-V-GB

CONTENTS

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3. Wiring Diagrams Ⅰ-238
4. Refrigerant circuit Ⅰ-246

1. Specifications

Model name			CMB-P104V-G		CMB-P105V-G	
Number of branch			4		5	
Power source			1N ~ 220/230/240V			
			50Hz	60Hz	50Hz	60Hz
Power input		kW	Cooling : 0.067/0.076/0.085 Heating : 0.030/0.034/0.038	Cooling : 0.054/0.061/0.067 Heating : 0.024/0.027/0.030	Cooling : 0.082/0.093/0.104 Heating : 0.038/0.043/0.048	Cooling : 0.066/0.074/0.082 Heating : 0.030/0.034/0.038
Current		A	Cooling : 0.31/0.34/0.36 Heating : 0.14/0.15/0.16	Cooling : 0.25/0.27/0.28 Heating : 0.11/0.12/0.13	Cooling : 0.38/0.41/0.44 Heating : 0.18/0.19/0.20	Cooling : 0.30/0.33/0.35 Heating : 0.14/0.15/0.16
External finish			Galvanized steel plate (Lower part drain pan painting N1.5)			
Connectable outdoor unit			PURY-P200/250/300/350YGM-A(-BS)			
Indoor unit capacity connectable to 1 branch		kW	Model P140 or smaller (Use optional joint pipe combining 2 branches when the total capacity exceeds 141.) (Use the reducer (standard accessory) when the indoor unit Model 50 or smaller is connected.)			
External dimension H x W x D		mm	284 x 648 x 432			
Refrigerant piping diameter	To outdoor unit		Connectable outdoor unit capacity			
			P200	P250/P300	P350	
		High press. pipe	ø15.88 Brazed	ø19.05 Brazed	ø19.05 Brazed	
		Low press. pipe	ø19.05 Brazed	ø22.2 Brazed	ø28.58 Brazed	
	To indoor unit	Liquid pipe	ø9.52 Flare (ø6.35 with attached reducer used, ø12.7 with optional joint pipe used.)			
		Gas pipe	ø15.88 Flare (ø12.7 with attached reducer used, ø19.05 with optional joint pipe used.)			
Drain pipe			VP-25			
Net weight		kg	24		27	
Accessories			·Drain Connection pipe (with flexible hose and insulation) ·Reducer			

Note: *1. Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.
*2. The equipment is for R410A refrigerant.

Ref.: M-WYNCO-6883&6884

BC controller

Model name			CMB-P106V-G		CMB-P108V-G	
Number of branch			6		8	
Power source			1N ~ 220/230/240V			
			50Hz	60Hz	50Hz	60Hz
Power input		kW	Cooling : 0.097/0.110/0.123 Heating : 0.045/0.051/0.057	Cooling : 0.078/0.088/0.097 Heating : 0.036/0.041/0.045	Cooling : 0.127/0.144/0.161 Heating : 0.060/0.068/0.076	Cooling : 0.102/0.115/0.127 Heating : 0.048/0.054/0.060
Current		A	Cooling : 0.45/0.48/0.52 Heating : 0.21/0.23/0.24	Cooling : 0.36/0.39/0.41 Heating : 0.17/0.18/0.19	Cooling : 0.58/0.63/0.68 Heating : 0.28/0.30/0.32	Cooling : 0.47/0.50/0.53 Heating : 0.22/0.24/0.25
External finish			Galvanized steel plate (Lower part drain pan painting N1.5)			
Connectable outdoor unit			PURY-P200/250/300/350YGM-A(-BS)			
Indoor unit capacity connectable to 1 branch		kW	Model P140 or smaller (Use optional joint pipe combining 2 branches when the total capacity exceeds 141.) (Use the reducer (standard accessory) when the indoor unit Model 50 or smaller is connected.)			
External dimension H x W x D		mm	284 x 648 x 432			
Refrigerant piping diameter	To outdoor unit		Connectable outdoor unit capacity			
			P200	P250/P300	P350	
		High press. pipe	ø15.88 Brazed	ø19.05 Brazed	ø19.05 Brazed	
		Low press. pipe	ø19.05 Brazed	ø22.2 Brazed	ø28.58 Brazed	
	To indoor unit	Liquid pipe	ø9.52 Flare (ø6.35 with attached reducer used, ø12.7 with optional joint pipe used.)			
		Gas pipe	ø15.88 Flare (ø12.7 with attached reducer used, ø19.05 with optional joint pipe used.)			
Drain pipe			VP-25			
Net weight		kg	29		34	
Accessories			·Drain Connection pipe (with flexible hose and insulation) ·Reducer			

Note: *1. Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.
*2. The equipment is for R410A refrigerant.

Ref.: M-WYNCO-6885&6886

Model name			CMB-P1010V-G		CMB-P1013V-G	
Number of branch			10		13	
Power source			1N ~ 220/230/240V			
			50Hz	60Hz	50Hz	60Hz
Power input		kW	Cooling : 0.156/0.177/0.198 Heating : 0.075/0.085/0.095	Cooling : 0.126/0.141/0.156 Heating : 0.060/0.068/0.075	Cooling : 0.201/0.228/0.255 Heating : 0.097/0.110/0.123	Cooling : 0.162/0.182/0.201 Heating : 0.078/0.088/0.097
Current		A	Cooling : 0.71/0.77/0.83 Heating : 0.35/0.37/0.40	Cooling : 0.58/0.62/0.65 Heating : 0.28/0.30/0.32	Cooling : 0.92/1.00/1.07 Heating : 0.45/0.48/0.52	Cooling : 0.74/0.80/0.84 Heating : 0.36/0.39/0.41
External finish			Galvanized steel plate (Lower part drain pan painting N1.5)			
Connectable outdoor unit			PURY-P200/250/300/350YGM-A(-BS)			
Indoor unit capacity connectable to 1 branch		kW	Model P140 or smaller (Use optional joint pipe combining 2 branches when the total capacity exceeds 141.) (Use the reducer (standard accessory) when the indoor unit Model 50 or smaller is connected.)			
External dimension H x W x D		mm	284 x 648 x 432		284 x 1,098 x 432	
Refrigerant piping diameter	To outdoor unit		Connectable outdoor unit capacity			
			P200	P250/P300	P350	
		High press. pipe	ø15.88 Brazed	ø19.05 Brazed	ø19.05 Brazed	
		Low press. pipe	ø19.05 Brazed	ø22.2 Brazed	ø28.58 Brazed	
	To indoor unit	Liquid pipe	ø9.52 Flare (ø6.35 with attached reducer used, ø12.7 with optional joint pipe used.)			
		Gas pipe	ø15.88 Flare (ø12.7 with attached reducer used, ø19.05 with optional joint pipe used.)			
Drain pipe			VP-25			
Net weight		kg	39		47	
Accessories			·Drain Connection pipe (with flexible hose and insulation) ·Reducer			

Note: *1. Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.
*2. The equipment is for R410A refrigerant.

Ref.: M-WYNCO-6887&6888

Model name			CMB-P1016V-G		
Number of branch			16		
Power source			1N ~ 220/230/240V		
			50Hz	60Hz	
Power input		kW	Cooling : 0.246/0.279/0.312 Heating : 0.119/0.135/0.151	Cooling : 0.198/0.222/0.246 Heating : 0.096/0.108/0.119	
Current		A	Cooling : 1.12/1.22/1.30 Heating : 0.55/0.59/0.63	Cooling : 0.90/0.97/1.03 Heating : 0.44/0.47/0.50	
External finish			Galvanized steel plate (Lower part drain pan painting N1.5)		
Connectable outdoor unit			PURY-P200/250/300/350YGM-A(-BS)		
Indoor unit capacity connectable to 1 branch		kW	Model P140 or smaller (Use optional joint pipe combining 2 branches when the total capacity exceeds 141.) (Use the reducer (standard accessory) when the indoor unit Model 50 or smaller is connected.)		
External dimension H x W x D		mm	284 x 1,098 x 432		
Refrigerant piping diameter	To outdoor unit		Connectable outdoor unit capacity		
			P200	P250/P300	P350
		High press. pipe	ø15.88 Brazed	ø19.05 Brazed	ø19.05 Brazed
		Low press. pipe	ø19.05 Brazed	ø22.2 Brazed	ø28.58 Brazed
	To indoor unit	Liquid pipe	ø9.52 Flare (ø6.35 with attached reducer used, ø12.7 with optional joint pipe used.)		
		Gas pipe	ø15.88 Flare (ø12.7 with attached reducer used, ø19.05 with optional joint pipe used.)		
Drain pipe			VP-25		
Net weight		kg	54		
Accessories			·Drain Connection pipe (with flexible hose and insulation) ·Reducer		

Note: *1. Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.
*2. The equipment is for R410A refrigerant.

Ref.: M-WYNCO-6889

Model name			CMB-P108V-GA		CMB-P1010V-GA	
Number of branch			8		10	
Power source			1N ~ 220/230/240V			
			50Hz	60Hz	50Hz	60Hz
Power input		kW	Cooling : 0.127/0.144/0.161 Heating : 0.060/0.068/0.076	Cooling : 0.102/0.115/0.127 Heating : 0.048/0.054/0.060	Cooling : 0.156/0.177/0.198 Heating : 0.075/0.085/0.095	Cooling : 0.126/0.141/0.156 Heating : 0.060/0.068/0.075
Current		A	Cooling : 0.58/0.63/0.68 Heating : 0.28/0.30/0.32	Cooling : 0.47/0.50/0.53 Heating : 0.22/0.24/0.25	Cooling : 0.71/0.77/0.83 Heating : 0.35/0.37/0.40	Cooling : 0.58/0.62/0.65 Heating : 0.28/0.30/0.32
External finish			Galvanized steel plate (Lower part drain pan painting N1.5)			
Connectable outdoor unit			PURY-P200/250/300/350/400/450/500/550/600/650YGM-A(-BS)			
Indoor unit capacity connectable to 1 branch		kW	Model P140 or smaller (Use optional joint pipe combining 2 branches when the total capacity exceeds 141.) (Use the reducer (standard accessory) when the indoor unit Model 50 or smaller is connected.)			
External dimension H x W x D		mm	289 x1,110 x 520			
Refrigerant piping diameter	To outdoor unit		Connectable outdoor unit capacity			
			P200	P250/P300	P350	P400~P500	P550~P650
		High press. pipe	ø15.88 Brazed	ø19.05 Brazed	ø19.05 Brazed	ø22.2 Brazed	ø28.58 Brazed
		Low press. pipe	ø19.05 Brazed	ø22.2 Brazed	ø28.58 Brazed	ø28.58 Brazed	ø28.58 Brazed
	To indoor unit	Liquid pipe	ø9.52 Flare (ø6.35 with attached reducer used, ø12.7 with optional joint pipe used.)			
		Gas pipe	ø15.88 Flare (ø12.7 with attached reducer used, ø19.05 with optional joint pipe used.)			
	To other BC controller		Total indoor unit capacity connected to this Sub BC controller			
			~P200	P251~P300	P301~P350	
		High press. pipe	ø15.88 Brazed	ø19.05 Brazed	ø19.05 Brazed	
		Low press. pipe	ø19.05 Brazed	ø22.2 Brazed	ø28.58 Brazed	
		Liquid pipe	ø9.52 Brazed	ø9.52 Brazed	ø12.7 Brazed	
Drain pipe			VP-25			
Net weight		kg	44		49	
Accessories			·Drain Connection pipe (with flexible hose and insulation) ·Reducer			

Note: *1. Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.
*2. The equipment is for R410A refrigerant.

Ref.: M-WYNCO-6890&6891

Model name			CMB-P1013V-GA		CMB-P1016V-GA	
Number of branch			13		16	
Power source			1N ~ 220/230/240V			
			50Hz	60Hz	50Hz	60Hz
Power input		kW	Cooling : 0.201/0.228/0.255 Heating : 0.097/0.110/0.123	Cooling : 0.162/0.182/0.201 Heating : 0.078/0.088/0.097	Cooling : 0.246/0.279/0.312 Heating : 0.119/0.135/0.151	Cooling : 0.198/0.222/0.246 Heating : 0.096/0.108/0.119
Current		A	Cooling : 0.92/1.00/1.07 Heating : 0.45/0.48/0.52	Cooling : 0.74/0.80/0.84 Heating : 0.36/0.39/0.41	Cooling : 1.12/1.22/1.30 Heating : 0.55/0.59/0.63	Cooling : 0.90/0.97/1.03 Heating : 0.44/0.47/0.50
External finish			Galvanized steel plate (Lower part drain pan painting N1.5)			
Connectable outdoor unit			PURY-P200/250/300/350/400/450/500/550/600/650YGM-A(-BS)			
Indoor unit capacity connectable to 1 branch		kW	Model P140 or smaller (Use optional joint pipe combining 2 branches when the total capacity exceeds 141.) (Use the reducer (standard accessory) when the indoor unit Model 50 or smaller is connected.)			
External dimension H x W x D		mm	289 x1,110 x 520			
Refrigerant piping diameter	To outdoor unit		Connectable outdoor unit capacity			
			P200	P250/P300	P350	P400~P500	P550~P650
		High press. pipe	ø15.88 Brazed	ø19.05 Brazed	ø19.05 Brazed	ø22.2 Brazed	ø28.58 Brazed
		Low press. pipe	ø19.05 Brazed	ø22.2 Brazed	ø28.58 Brazed	ø28.58 Brazed	ø28.58 Brazed
	To indoor unit	Liquid pipe	ø9.52 Flare (ø6.35 with attached reducer used, ø12.7 with optional joint pipe used.)			
		Gas pipe	ø15.88 Flare (ø12.7 with attached reducer used, ø19.05 with optional joint pipe used.)			
	To other BC controller		Total indoor unit capacity connected to this Sub BC controller			
			~P200	P251~P300	P301~P350	
		High press. pipe	ø15.88 Brazed	ø19.05 Brazed	ø19.05 Brazed	
		Low press. pipe	ø19.05 Brazed	ø22.2 Brazed	ø28.58 Brazed	
		Liquid pipe	ø9.52 Brazed	ø9.52 Brazed	ø12.7 Brazed	
Drain pipe			VP-25			
Net weight		kg	57		64	
Accessories			·Drain Connection pipe (with flexible hose and insulation) ·Reducer			

Note: *1. Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.
*2. The equipment is for R410A refrigerant.

Ref.: M-WYNCO-6892&6893

Model name			CMB-P104V-GB		CMB-P108V-GB	
Number of branch			4		8	
Power source			1N ~ 220/230/240V			
			50Hz	60Hz	50Hz	60Hz
Power input		kW	Cooling : 0.060/0.068/0.076 Heating : 0.030/0.034/0.038	Cooling : 0.048/0.054/0.060 Heating : 0.024/0.027/0.030	Cooling : 0.119/0.135/0.151 Heating : 0.060/0.068/0.076	Cooling : 0.096/0.108/0.119 Heating : 0.048/0.054/0.060
Current		A	Cooling : 0.28/0.30/0.32 Heating : 0.14/0.15/0.16	Cooling : 0.22/0.24/0.25 Heating : 0.11/0.12/0.13	Cooling : 0.55/0.59/0.63 Heating : 0.28/0.30/0.32	Cooling : 0.44/0.47/0.50 Heating : 0.22/0.24/0.25
External finish			Galvanized steel plate (Lower part drain pan painting N1.5)			
Connectable BC controller		Main BC	CMB-P108/1010/1013/1016V-GA			
		Sub BC	CMB-P104/108V-GB			
Indoor unit capacity connectable to 1 branch		kW	Model P140 or smaller (Use optional joint pipe combining 2 branches when the total capacity exceeds 141.) (Use the reducer (standard accessory) when the indoor unit Model 50 or smaller is connected.)			
External dimension H x W x D		mm	284 x 648 x 432			
Refrigerant piping diameter			Total indoor unit capacity connected to this Sub BC controller			
			~P200	P201~P300	P301~P350	
	To Main BC controller	High press. pipe	ø15.88 Brazed	ø19.05 Brazed	ø19.05 Brazed	
		Low press. pipe	ø19.05 Brazed	ø22.2 Brazed	ø28.58 Brazed	
		Liquid pipe	ø9.52 Brazed	ø9.52 Brazed	ø12.7 Brazed	
	To indoor unit	Liquid pipe	ø9.52 Flare (ø6.35 with attached reducer used, ø12.7 with optional joint pipe used.)			
		Gas pipe	ø15.88 Flare (ø12.7 with attached reducer used, ø19.05 with optional joint pipe used.)			
Drain pipe			VP-25			
Net weight		kg	22		32	
Accessories			·Drain Connection pipe (with flexible hose and insulation) ·Reducer			

Note: *1. Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.
*2. The equipment is for R410A refrigerant.

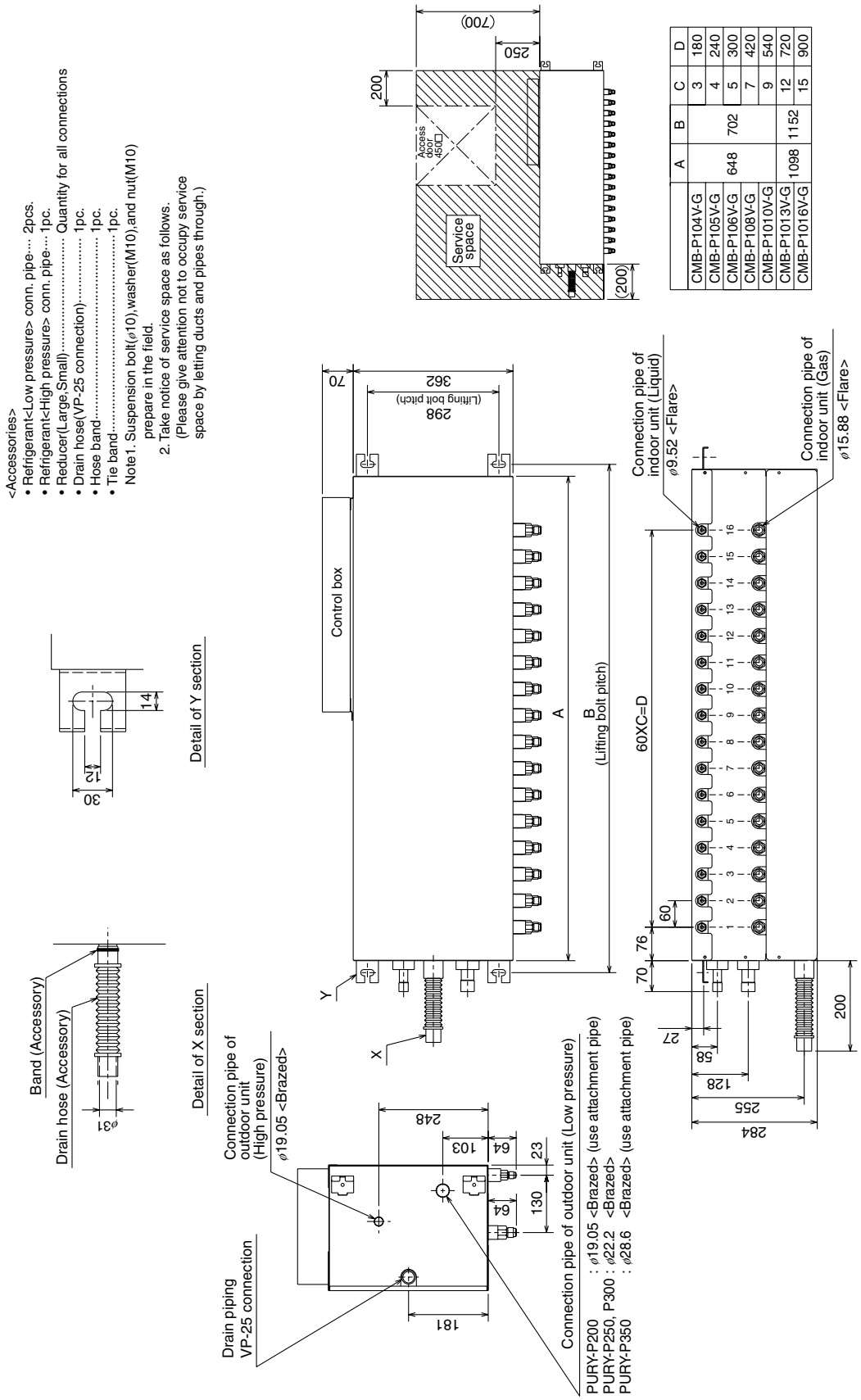
Ref.: M-WYNCO-6894&6895

BC controller

2. External Dimension

CMB-P104,105,106,108,1010, 1013,1016V-G

Unit : mm



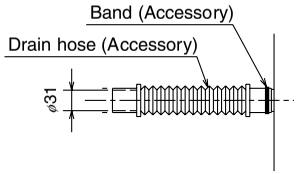
	A	B	C	D
CMB-P104V-G	648	702	3	180
CMB-P105V-G			4	240
CMB-P106V-G			5	300
CMB-P108V-G			7	420
CMB-P1010V-G			9	540
CMB-P1013V-G	1098	1152	12	720
CMB-P1016V-G			15	900

<Accessories>
- Refrigerant<Low pressure> conn. pipe··· 2pcs.
- Refrigerant<High pressure> conn. pipe··· 1pc.
- Reducer(Large,Small)····· Quantity for all connections
- Drain hose(VP-25 connection)····· 1pc.
- Hose band····· 1pc.
- Tie band····· 1pc.

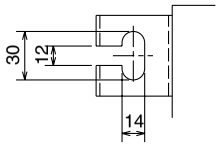
Note 1. Suspension bolt(ø10),washer(M10),and nut(M10) prepare in the field.
2. Take notice of service space as follows. (Please give attention not to occupy service space by letting ducts and pipes through.)

BC controller

CMB-P108,1010,1013,1016V-GA



Detail of X section



Detail of Y section

	A	B
CMB-P108V-GA	7	420
CMB-P1010V-GA	9	540
CMB-P1013V-GA	12	720
CMB-P1016V-GA	15	900

<Accessories>
- Refrigerant<High pressure>conn. pipe···· 2pcs.
- Reducer(Large,Small)····· Quantity for all connections
- Drain hose(VP-25 connection)····· 1pc.
- Hose band····· 1pc.
- Tie band····· 1pc.

Note1. Suspension bolt(ø10),washer(M10),and nut(M10) prepare in the field.
2. Take notice of service space as follows.
(Please give attention not to occupy service space by letting ducts and pipes through.)
3. Please take space to connect SUB BC CONTROLLER.

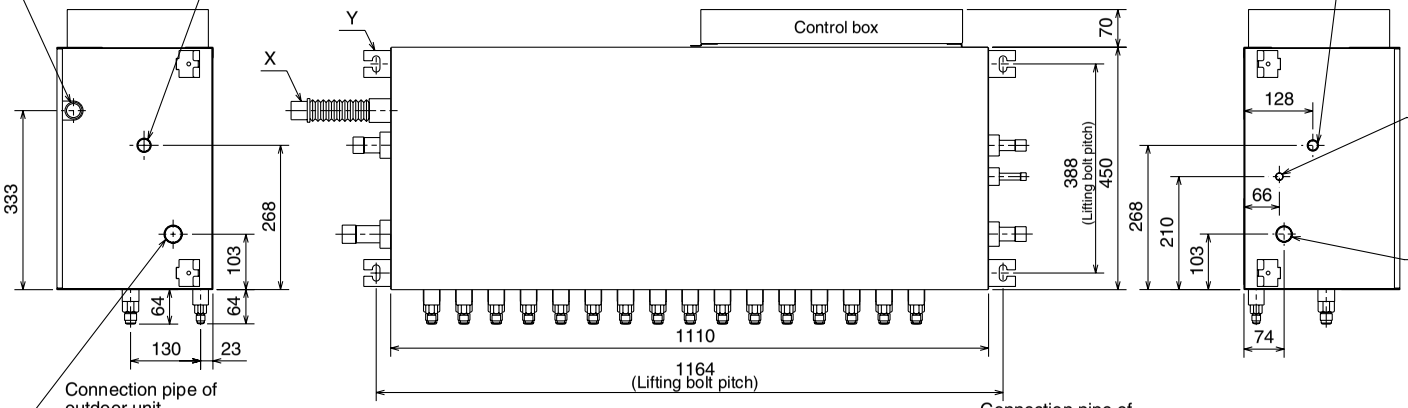
Connection pipe of outdoor unit (High pressure)
PURY-P350 : ø19.05 <Brazed> (use attachment pipe)
PURY-P400, P450, P500 : ø22.2 <Brazed>
PURY-P550, P600, P650 : ø28.6 <Brazed> (use attachment pipe)

Drain piping
VP-25 connection

Connection pipe of
SUB BC CONTROLLER (High pressure)
Total capacity of indoor unit at SUB BC CONTROLLER
200 or less : ø15.88 <Brazed>
(use attachment pipe of SUB BC CONTROLLER)
200 over : ø19.05 <Brazed>

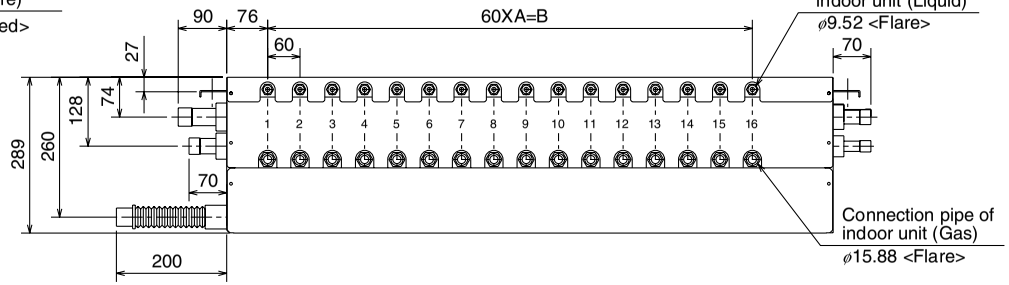
Connection pipe of
SUB BC CONTROLLER (Liquid)
Total capacity of indoor unit at SUB BC CONTROLLER
300 or less : ø9.52<Brazed>
300 over : ø12.7<Brazed>
(use attachment pipe of SUB BC CONTROLLER)

Connection pipe of
SUB BC CONTROLLER (Low pressure)
Total capacity of indoor unit at SUB BC CONTROLLER
200 or less : ø19.05 <Brazed>
(use attachment pipe of SUB BC CONTROLLER)
300 or less : ø22.2 <Brazed>
300 over : ø28.6 <Brazed>
(use attachment pipe of SUB BC CONTROLLER)

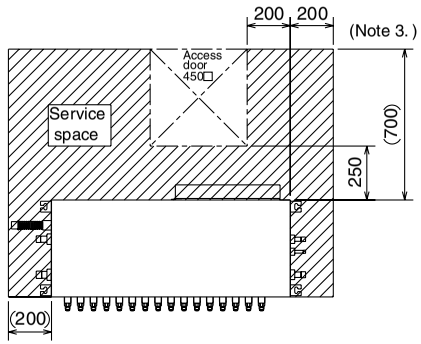


Connection pipe of outdoor unit (Low pressure)
ø28.6 <Brazed>

Connection pipe of indoor unit (Liquid)
ø9.52 <Flare>



Connection pipe of indoor unit (Gas)
ø15.88 <Flare>

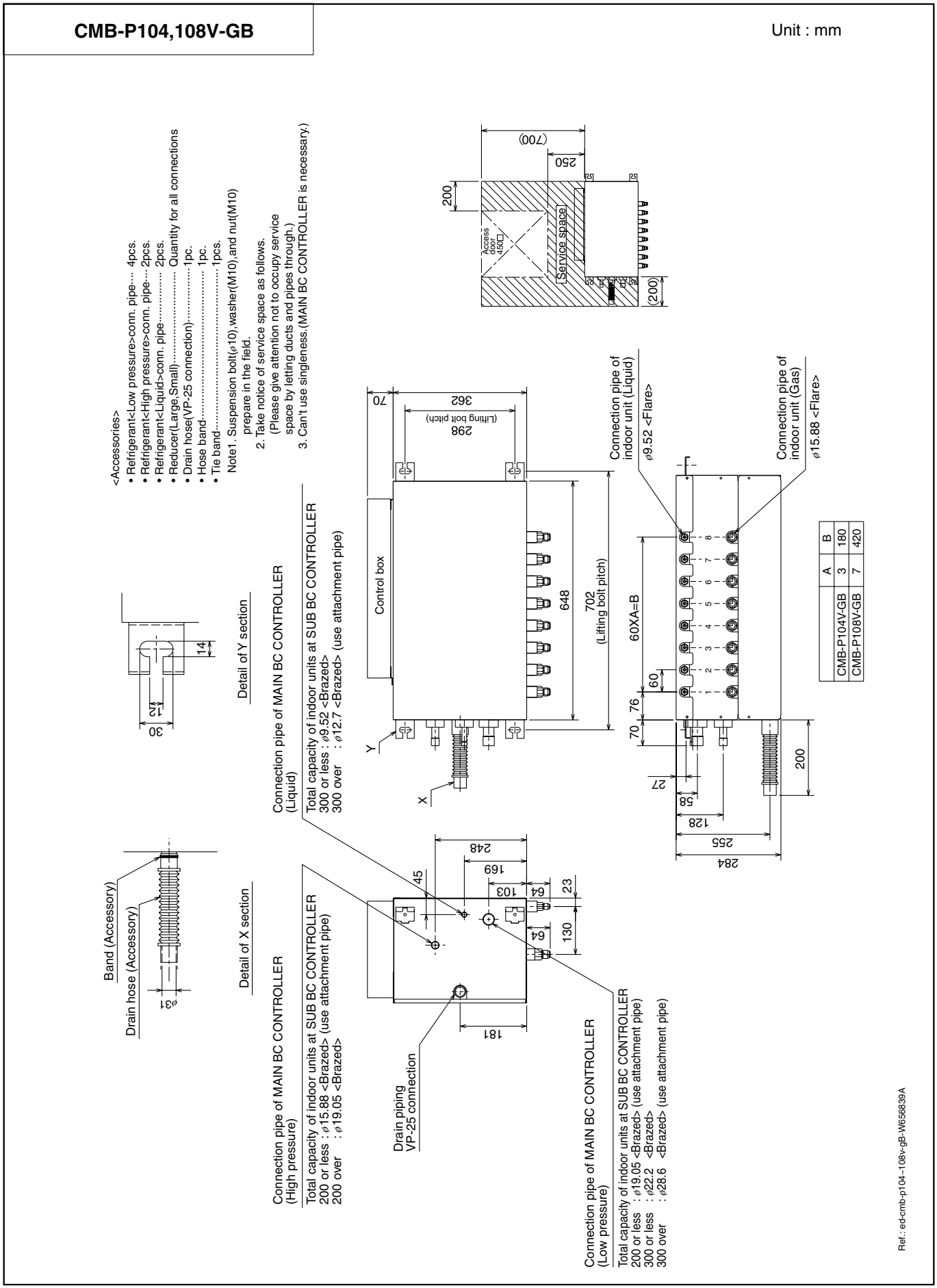


Unit : mm

Ref.: ed-cmb-p108~1016v-gA-W656838A

CMB-P104,108V-GB

Unit : mm



	A	B
CMB-P104V-GB	3	180
CMB-P108V-GB	7	420

BC controller

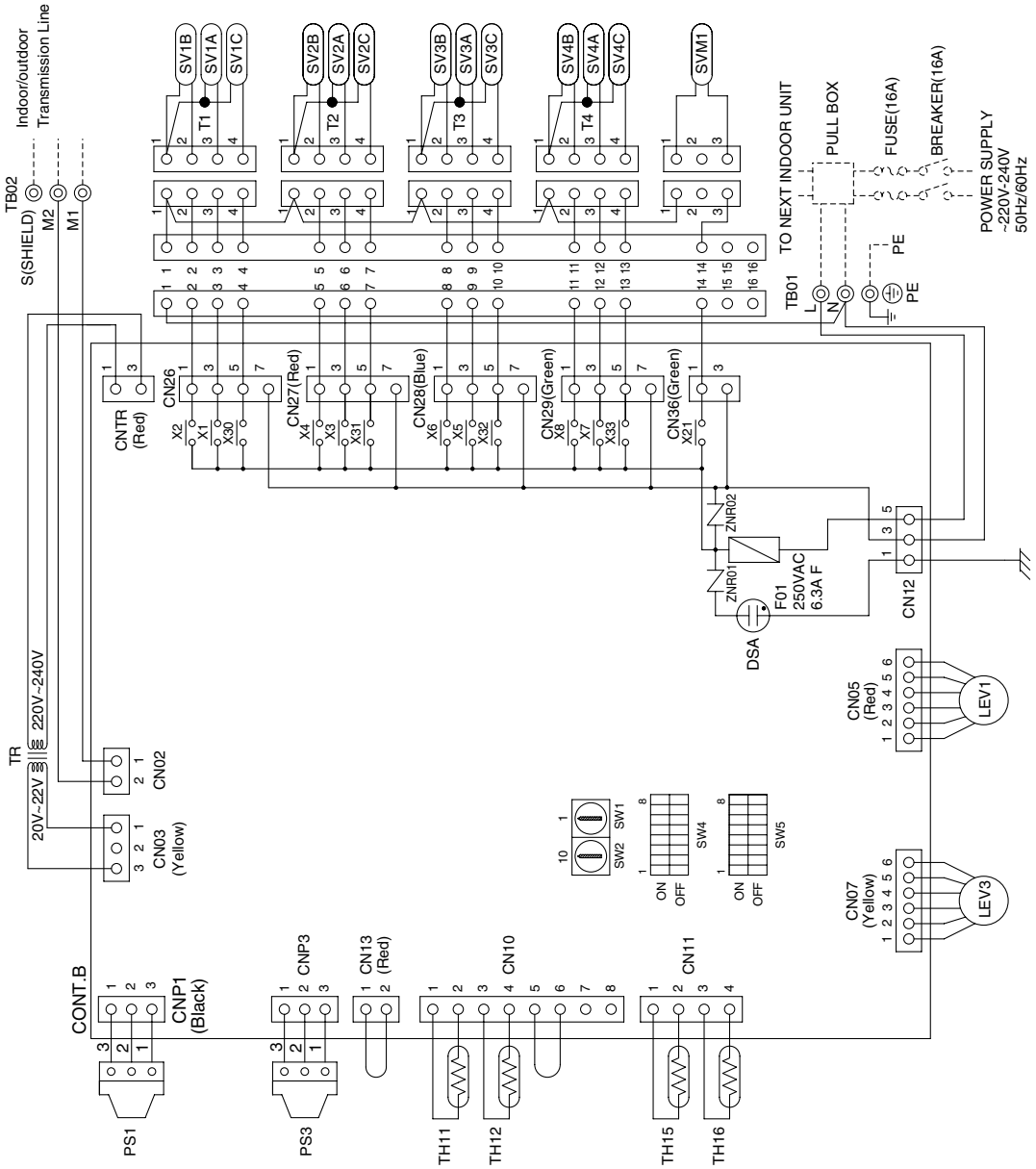
3. Wiring Diagrams

CMB-P104V-G

Symbol explanation

Symbol	Name
TR	Transformer
TH11,12,15,16	Thermister sensor
LEV1,3	Expansion valve
PS1,3	Pressure sensor
CONT.B	Circuit board / BC controller
TB01	Terminal block (for power source)
TB02	Terminal block (for Transmission)
SV1~4A,B,C	Solenoid valve
SVM1	Solenoid valve
T1~4	Terminal
F01	Fuse AC250V 6.3A F

Note: 1. TB02 is transmission terminal block.
Never connect power line to it.
2. The initial set values of switch on CONT.B are as follows.
SW1:0
SW2:0



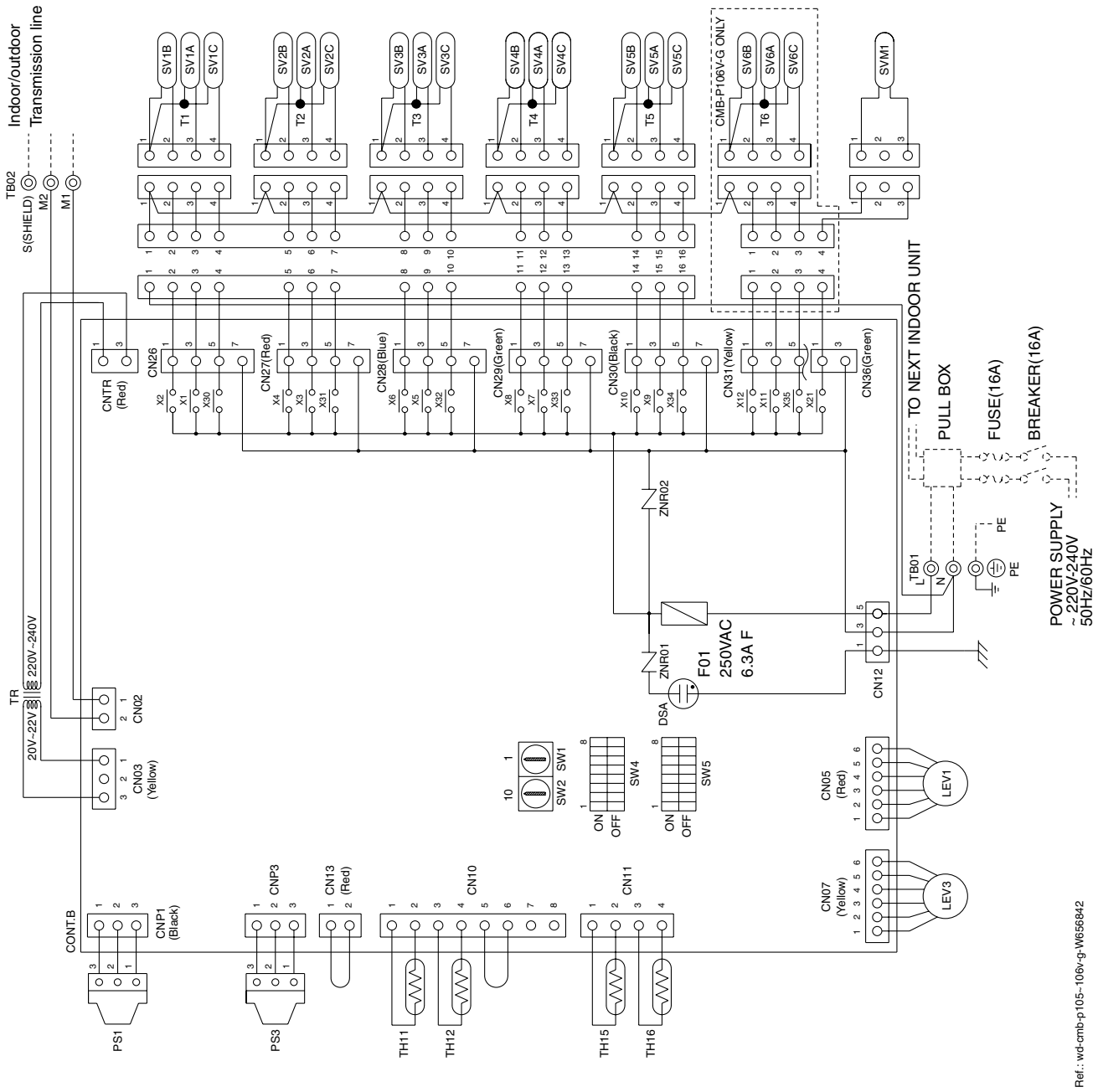
Ref.: wd-cmb-p104v-g-W656841

CMB-P105, 106V-G

Symbol explanation

Symbol	Name
TR	Transformer
TH11,12,15,16	Thermister sensor
LEV1,3	Expansion valve
PS1,3	Pressure sensor
CONT.B	Circuit board BC controller
TB01	Terminal block (for power source)
TB02	Terminal block (for Transmission)
SV1~6A,B,C	Solenoid valve
SVM1	Solenoid valve
T1~6	Terminal
F01	Fuse AC250V 6.3A F

Note: 1. TB02 is transmission terminal block.
Never connect power line to it.
2. The initial set values of switch on CONT.B are as follows.
SW1:0
SW2:0



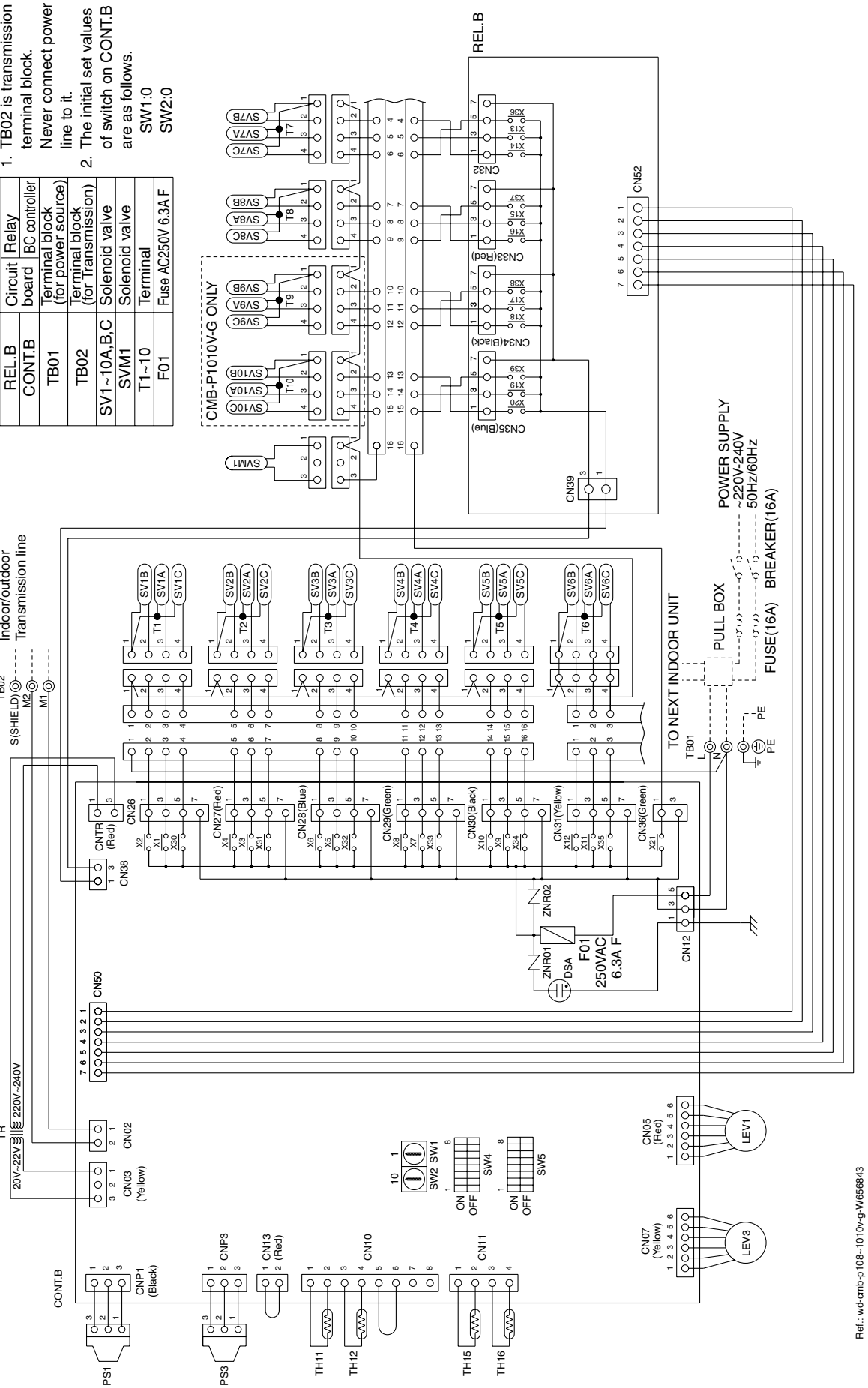
BC controller

CMB-P108, 1010V-G

Symbol explanation

Symbol	Name
TR	Transformer
TH11,12,15,16	Thermister sensor
LEV1,3	Expansion valve
PS1,3	Pressure sensor
REL.B	Circuit board: Relay
CONT.B	Circuit board: BC controller
TB01	Terminal block (for power source)
TB02	Terminal block (for Transmission)
SV1~10A,B,C	Solenoid valve
SVM1	Solenoid valve
T1~10	Terminal
F01	Fuse AC250V 6.3A F

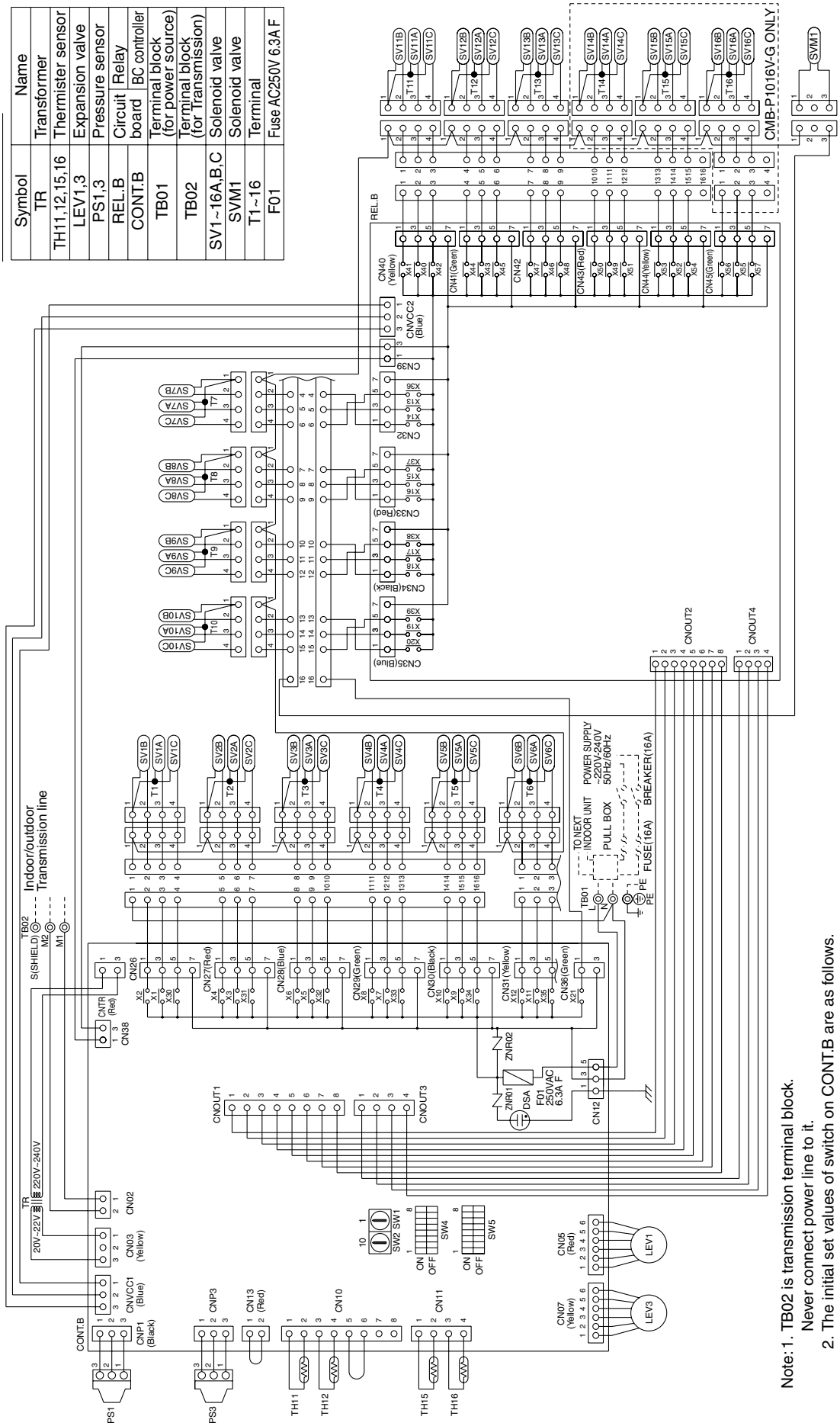
Note:
1. TB02 is transmission terminal block. Never connect power line to it.
2. The initial set values of switch on CONT.B are as follows.
   SW1:0
   SW2:0



CMB-P1013, 1016V-G

Symbol explanation

Symbol	Name
TR	Transformer
TH11,12,15,16	Thermister sensor
LEV1,3	Expansion valve
PS1,3	Pressure sensor
REL.B	Circuit board: Relay
CONT.B	Circuit board: BC controller
TB01	Terminal block (for power source)
TB02	Terminal block (for Transmission)
SV1~16A,B,C	Solenoid valve
SVM1	Solenoid valve
T1~16	Terminal
F01	Fuse AC250V 6.3A F

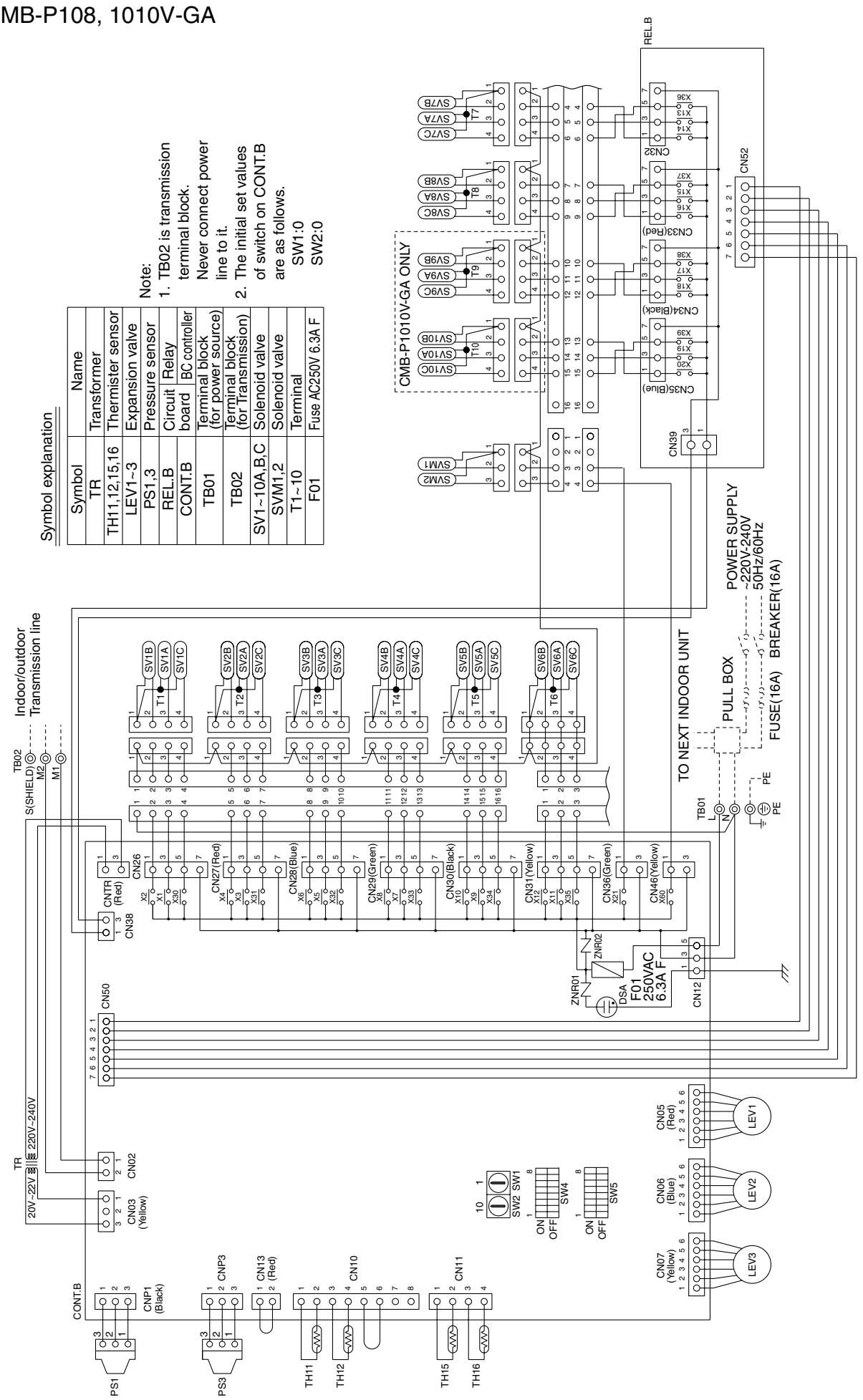


Note: 1. TB02 is transmission terminal block.
Never connect power line to it.
2. The initial set values of switch on CONT.B are as follows.
SW1:0
SW2:0

Ref.: wd-cmb-p1013~1016v-g-W656844

BC controller

CMB-P108, 1010V-GA



Symbol explanation

Symbol	Name
TR	Transformer
TH11,12,15,16	Thermister sensor
LEV1~3	Expansion valve
PS1,3	Pressure sensor
REL.B	Circuit board: Relay
CONT.B	Circuit board: BC controller
TB01	Terminal block (for power source)
TB02	Terminal block (for Transmission)
SV1~10A,B,C	Solenoid valve
SVM1,2	Solenoid valve
T1~10	Terminal
F01	Fuse AC250V 6.3A F

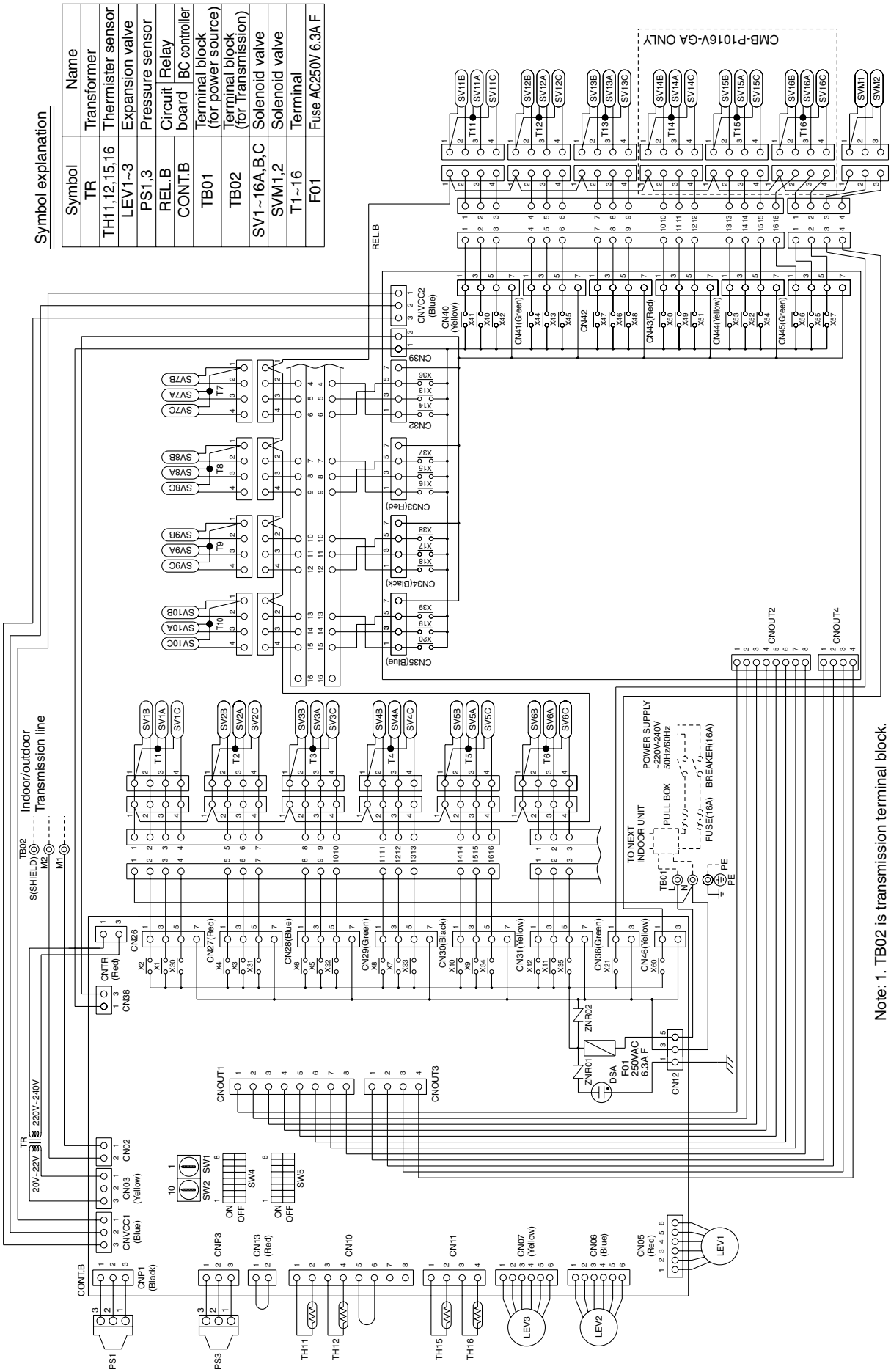
Note:
1. TB02 is transmission terminal block. Never connect power line to it.
2. The initial set values of switch on CONT.B are as follows.
   SW1:0
   SW2:0

Ref.: wd-cmb-p108~1010v-gA-W656845

CMB-P1013, 1016V-GA

Symbol explanation

Symbol	Name
TR	Transformer
TH11,12,15,16	Thermister sensor
LEV1~3	Expansion valve
PS1,3	Pressure sensor
REL.B	Circuit board Relay
CONT.B	BC controller
TB01	Terminal block (for power source)
TB02	Terminal block (for Transmission)
SV1~16A,B,C	Solenoid valve
SVM1,2	Solenoid valve
T1~16	Terminal
F01	Fuse AC250V 6.3A F



Note: 1. TB02 is transmission terminal block.
Never connect power line to it.
2. The initial set values of switch on CONT.B are as follows.
SW1:0
SW2:0

Ref.: wd-cmb-p1013~1016v-gA-W656846

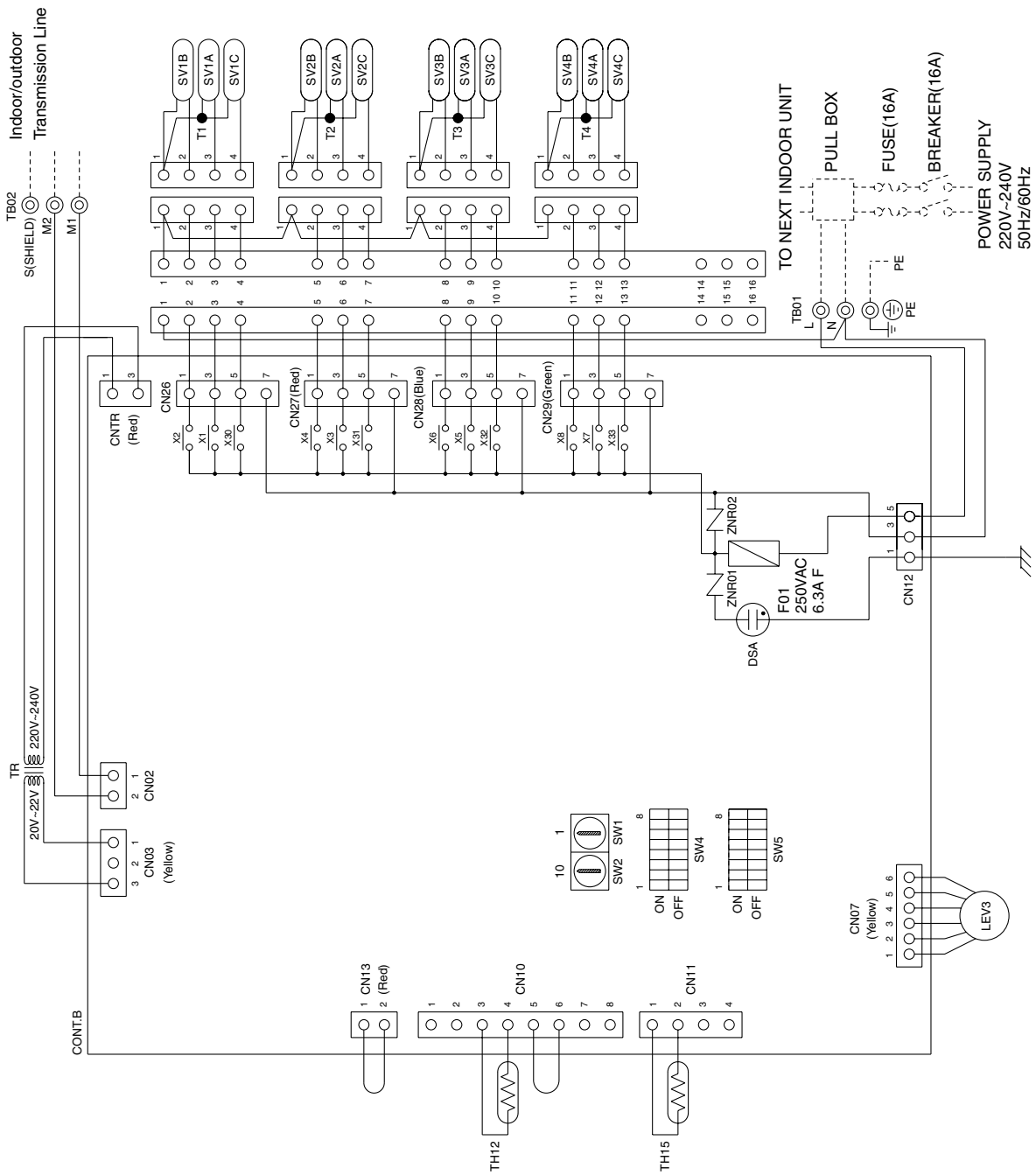
BC controller

CMB-P104V-GB

Symbol explanation

Symbol	Name
TR	Transformer
TH12,15	Thermister sensor
LEV3	Expansion valve
CONT.B	Circuit board BC controller
TB01	Terminal block (for power source)
TB02	Terminal block (for Transmission)
SV1~4A,B,C	Solenoid valve
T1~4	Terminal
F01	Fuse AC250V 6.3A F

Note: 1. TB02 is transmission terminal block.
Never connect power line to it.
2. The initial set values of switch on CONT.B are as follows.
SW1:0
SW2:0

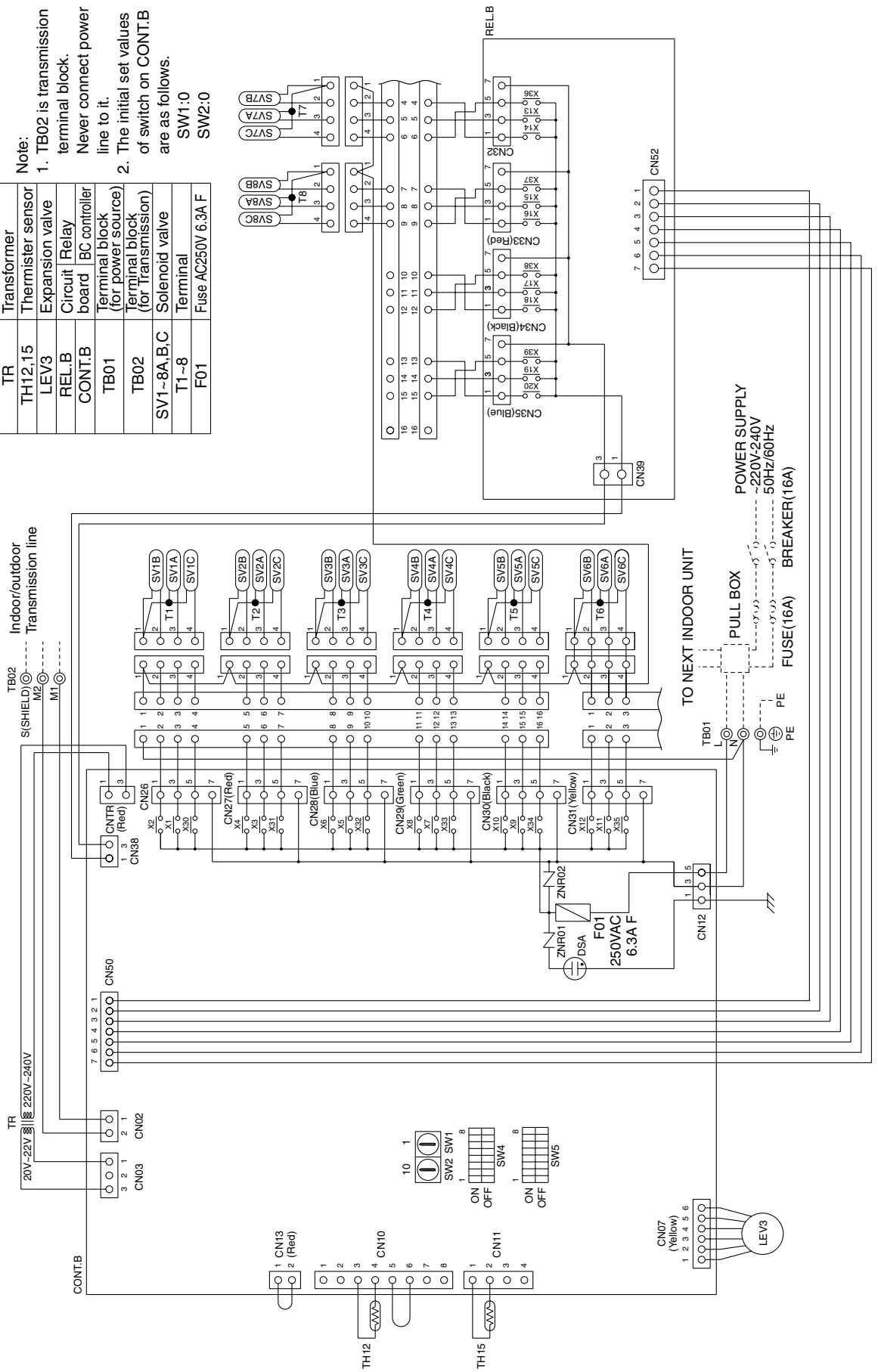


Ref.: wd-cmb-p104v-gB-W656847

Symbol explanation

Symbol	Name
TR	Transformer
TH12,15	Thermister sensor
LEV3	Expansion valve
REL.B	Circuit board: Relay
CONT.B	Circuit board: BC controller
TB01	Terminal block (for power source)
TB02	Terminal block (for Transmission)
SV1~8A,B,C	Solenoid valve
T1~8	Terminal
F01	Fuse AC250V 6.3A F

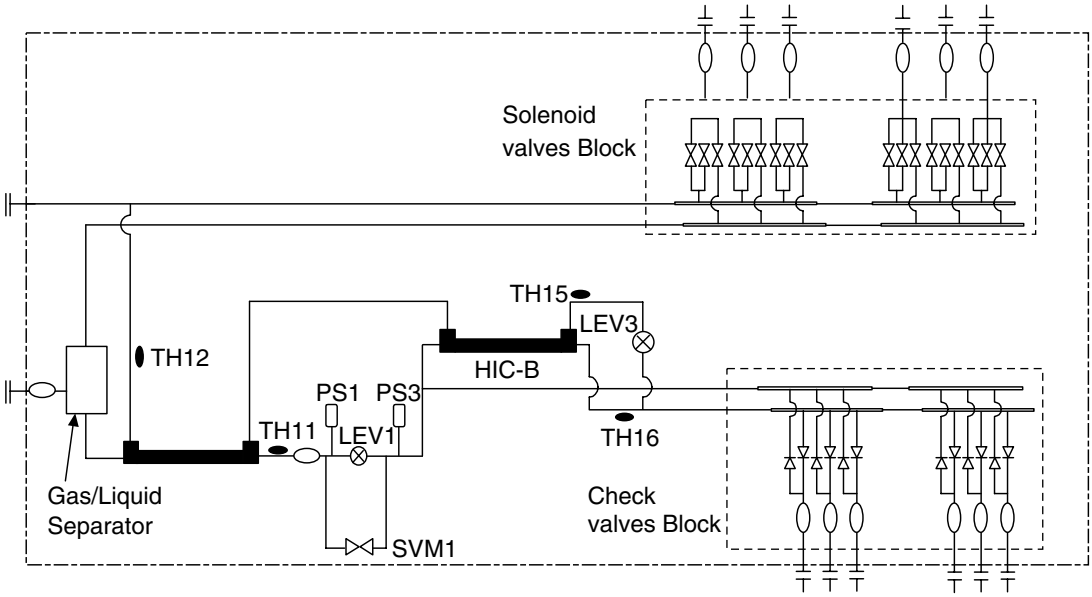
Note:
1. TB02 is transmission terminal block. Never connect power line to it.
2. The initial set values of switch on CONT.B are as follows.
SW1:0
SW2:0



BC controller

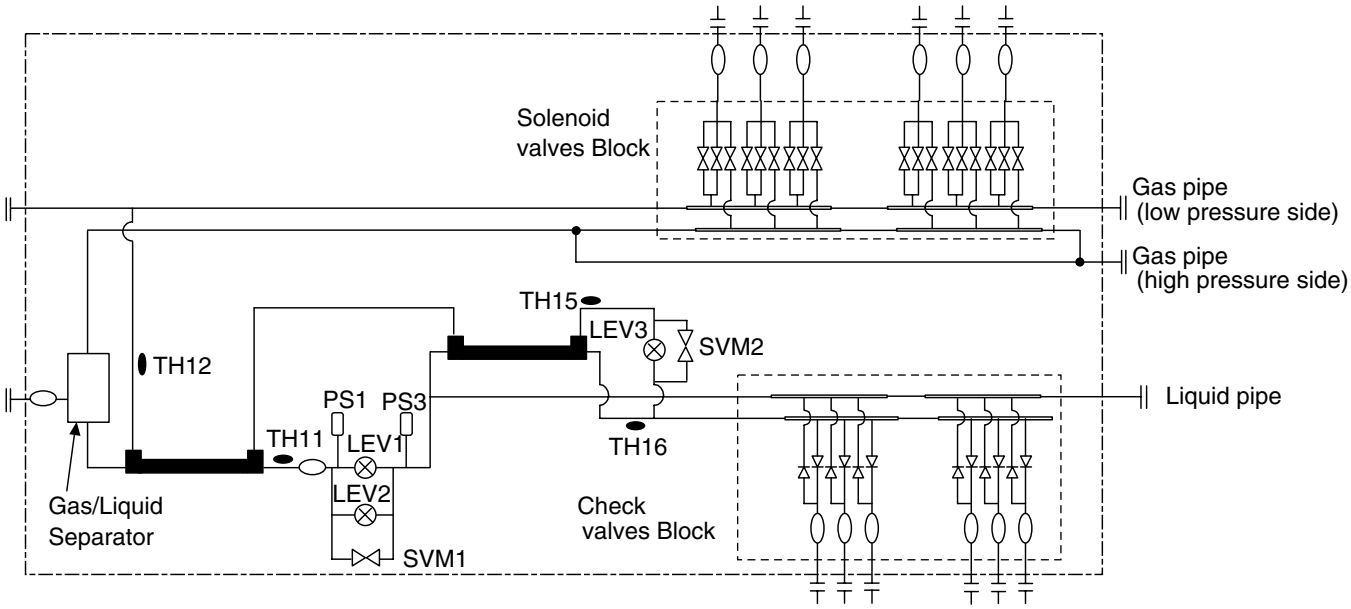
Ref.: wd-cmb-p108v-gB-W656848

CMB-P104,105,106,108,1010,1013,1016V-G



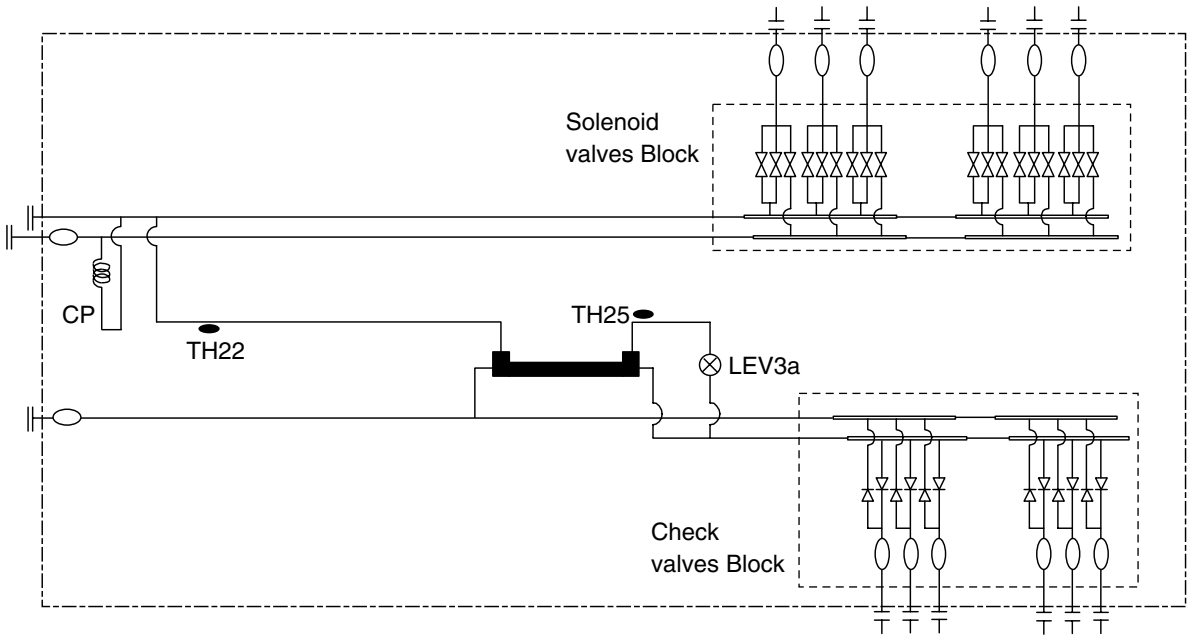
Ref.: rc-cmb-p~V-G

CMB-P108,1010,1013,1016V-GA



Ref.: rc-cmb-p~V-GA

CMB-P104,108V-GB



Ref.: rc-cmb-p-V-GB

CITY MULTI (TM) OUTDOOR UNIT

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R410A refrigerant & CE units

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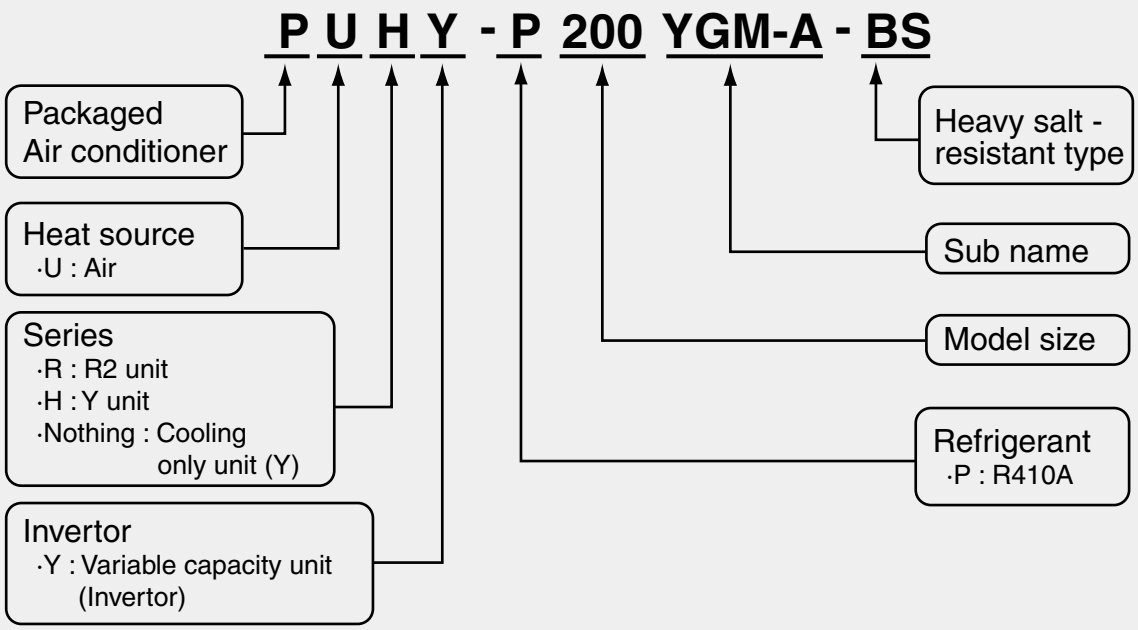
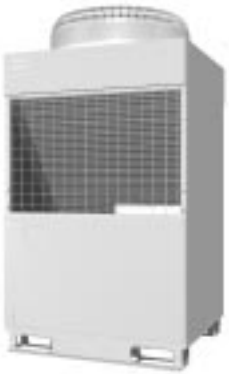
Meaning of model name



CITY MULTI OUTDOOR UNITS

Standard	Refrigerant	Series	Model Name	200 (8HP)	250 (10HP)	300 (12HP)	350 (14HP)	400 (16HP)	450 (18HP)	500 (20HP)	550 (22HP)	600 (24HP)	650 (26HP)	700 (28HP)	750 (30HP)	800 (32HP)
CE	R410A	Y	PUHY-P-Y(S)GM-A(-BS)	●	●	●	●	●	●	●	●	●	●	●	●	●
			PUY-P-YGM-A(-BS)	●	●	●	●									
		R2	PURY-P-YGM-A(-BS)	●	●	●	●	●	●	●	●	●	●			



	8HP	10HP	12HP	14HP	16HP
Heat Pump	PUHY-P200YGM	PUHY-P250YGM	PUHY-P300YGM	PUHY-P350YGM	PUHY-P400YGM
Cooling Only	PUY-P200YGM	PUY-P250YGM	PUY-P300YGM	PUY-P350YGM	–
Heat Recovery	PURY-P200YGM	PURY-P250YGM	PURY-P300YGM	PURY-P350YGM	PURY-P400YGM

	18HP	20HP	22HP	24HP	26HP
Heat Pump	PUHY-P450YGM	PUHY-P500YGM	PUHY-P550YGM	PUHY-P600YGM	PUHY-P650YGM
Heat Recovery	PURY-P450YGM	PURY-P500YGM	PURY-P550YGM	PURY-P600YGM	PURY-P650YGM

	28HP	30HP	32HP
Heat Pump	PUHY-P700YSGM	PUHY-P750YSGM	PUHY-P800YSGM

PUHY-P200·250·300·350YGM-A (-BS)
PUY-P200·250·300·350YGM-A (-BS)

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1. Specifications

Model name			PUHY-P200YGM-A (-BS)	
			Cooling	Heating
Capacity	*1 †	kW	22.4	25.0
	*1 †	BTU/h	76,400	85,300
	*1 ††	kcal/h	20,000	-
Power source			3N ~ 380/400/415V 50/60Hz	
Power input		kW	6.14	5.98
Current		A	10.3 / 9.8 / 9.4	10.0 / 9.5 / 9.2
Fan	Type x Quantity		Propeller fan x 1	
	Airflow rate	m^3/min	200	
	Motor output	kW	0.38	
Compressor	Type		Hermetic	
	Motor output	kW	4.7	
	Crankcase heater	kW	0.045 x 1	
Heat exchanger			Salt resistant fin	
Refrigerant / Lubricant			R410A / MEL56	
External finish			Pre-coated galvanized sheets (+ powder coating for –BS type) <MUNSEL 5Y 8/1 or similar>	
External dimension H x W x D		mm	1,840 x 990 x 840	
Protection devices	High pressure protection		4.15MPa	
	Compressor		Over current protection / Over heat protection	
	Fan		Thermal switch	
	Inverter		Over current protection / Thermal protection	
Refrigerant piping diameter	High press. pipe		ϕ9.52 Flare	
	Low press. pipe		ϕ19.05 Brazed	
Indoor unit	Total capacity		50~130% of outdoor unit capacity	
	Model / Quantity		Model P20~P250 / 1~13	
Noise level	*2	dB<A>	56 / 56	
Net weight		kg	218	
Operating temperature range			Cooling	Heating
			Indoor : 15˚CWB ~ 24˚CWB Outdoor: -5˚CDB ~ 43˚CDB (0˚CDB ~ 43˚CDB, when the outdoor unit is at a lower position)	Indoor : 15˚CDB ~ 27˚CDB Outdoor: -20˚CWB ~ 15.5˚CWB

Note: *1. Cooling/Heating capacity indicates the maximum value at operation under the following condition.

† <Cooling> Indoor : 27˚CDB / 19˚CWB Outdoor : 35˚CDB
<Heating> Indoor : 20˚CDB Outdoor : 7˚CDB / 6˚CWB
Pipe length : 7.5m Height difference : 0m

†† <Cooling> Indoor : 27˚CDB / 19.5˚CWB Outdoor : 35˚CDB
Pipe length : 5m Height difference : 0m

*2. It is measured in anechoic room.

** Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.

Ref.: M-WYNCO-6927&6940

Model name			PUHY-P250YGM-A (-BS)	
			Cooling	Heating
Capacity	*1†	kW	28.0	31.5
	*1†	BTU/h	95,500	107,500
	*1††	kcal/h	25,000	-
Power source			3N ~ 380/400/415V 50/60Hz	
Power input		kW	7.72	7.62
Current		A	13.0 / 12.3 / 11.9	12.8 / 12.2 / 11.7
Fan	Type x Quantity		Propeller fan x 1	
	Airflow rate	m^3/min	200	
	Motor output	kW	0.38	
Compressor	Type		Hermetic	
	Motor output	kW	6.7	
	Crankcase heater	kW	0.045 x 1	
Heat exchanger			Salt resistant fin	
Refrigerant / Lubricant			R410A / MEL32	
External finish			Pre-coated galvanized sheets (+ powder coating for –BS type) <MUNSEL 5Y 8/1 or similar>	
External dimension H x W x D		mm	1,840 x 990 x 840	
Protection devices	High pressure protection		4.15MPa	
	Compressor		Over current protection / Over heat protection	
	Fan		Thermal switch	
	Inverter		Over current protection / Thermal protection	
Refrigerant piping diameter	High press. pipe		ø9.52 Flare (ø12.7 for over 90m)	
	Low press. pipe		ø22.2 Brazed	
Indoor unit	Total capacity		50~130% of outdoor unit capacity	
	Model / Quantity		Model P20~P250 / 1~16	
Noise level	*2	dB<A>	57 / 57	
Net weight		kg	233	
			Cooling	Heating
Operating temperature range			Indoor : 15˚CWB ~ 24˚CWB Outdoor: -5˚CDB ~ 43˚CDB (0˚CDB ~ 43˚CDB, when the outdoor unit is at a lower position)	Indoor : 15˚CDB ~ 27˚CDB Outdoor: -20˚CWB ~ 15.5˚CWB

Note: *1. Cooling/Heating capacity indicates the maximum value at operation under the following condition.

† <Cooling> Indoor : 27˚CDB / 19˚CWB Outdoor : 35˚CDB
<Heating> Indoor : 20˚CDB Outdoor : 7˚CDB / 6˚CWB
Pipe length : 7.5m Height difference : 0m

†† <Cooling> Indoor : 27˚CDB / 19.5˚CWB Outdoor : 35˚CDB
Pipe length : 5m Height difference : 0m

*2. It is measured in anechoic room.

** Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.

Ref.: M-WYNCO-6928&6941

Model name			PUHY-P300YGM-A (-BS)	
			Cooling	Heating
Capacity	*1 †	kW	33.5	37.5
	*1 †	BTU/h	114,300	127,900
	*1 ††	kcal/h	30,000	-
Power source			3N ~ 380/400/415V 50/60Hz	
Power input		kW	9.57	9.10
Current		A	16.1 / 15.3 / 14.7	15.3 / 14.5 / 14.0
Fan	Type x Quantity		Propeller fan x 1	
	Airflow rate	m^3/min	200	
	Motor output	kW	0.38	
Compressor	Type		Hermetic	
	Motor output	kW	8.0	
	Crankcase heater	kW	0.045 x 1	
Heat exchanger			Salt resistant fin	
Refrigerant / Lubricant			R410A / MEL32	
External finish			Pre-coated galvanized sheets (+ powder coating for –BS type) <MUNSEL 5Y 8/1 or similar>	
External dimension H x W x D		mm	1,840 x 990 x 840	
Protection devices	High pressure protection		4.15MPa	
	Compressor		Over current protection / Over heat protection	
	Fan		Thermal switch	
	Inverter		Over current protection / Thermal protection	
Refrigerant piping diameter	High press. pipe		ø9.52 Flare (ø12.7 for over 40m)	
	Low press. pipe		ø22.2 Brazed	
Indoor unit	Total capacity		50~130% of outdoor unit capacity	
	Model / Quantity		Model P20~P250 / 1~19	
Noise level	*2	dB<A>	59 / 59	
Net weight		kg	233	
Operating temperature range			Cooling	Heating
			Indoor : 15˚CWB ~ 24˚CWB Outdoor: -5˚CDB ~ 43˚CDB (0˚CDB ~ 43˚CDB, when the outdoor unit is at a lower position)	Indoor : 15˚CDB ~ 27˚CDB Outdoor: -20˚CWB ~ 15.5˚CWB

Note: *1. Cooling/Heating capacity indicates the maximum value at operation under the following condition.

† <Cooling> Indoor : 27˚CDB / 19˚CWB Outdoor : 35˚CDB
<Heating> Indoor : 20˚CDB Outdoor : 7˚CDB / 6˚CWB
Pipe length : 7.5m Height difference : 0m

†† <Cooling> Indoor : 27˚CDB / 19.5˚CWB Outdoor : 35˚CDB
Pipe length : 5m Height difference : 0m

*2. It is measured in anechoic room.

** Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.

Ref.: M-WYNCO-6929&6942

Model name			PUHY-P350YGM-A (-BS)	
			Cooling	Heating
Capacity	*1 †	kW	40.0	45.0
	*1 †	BTU/h	136,500	153,500
	*1 ††	kcal/h	35,000	-
Power source			3N ~ 380/400/415V 50/60Hz	
Power input		kW	11.39	11.02
Current		A	19.2 / 18.2 / 17.6	18.6 / 17.6 / 17.0
Fan	Type x Quantity		Propeller fan x 1	
	Airflow rate	m^3/min	200	
	Motor output	kW	0.38	
Compressor	Type		Hermetic	
	Motor output	kW	9.6	
	Crankcase heater	kW	0.045 x 1	
Heat exchanger			Salt resistant fin	
Refrigerant / Lubricant			R410A / MEL32	
External finish			Pre-coated galvanized sheets (+ powder coating for –BS type) <MUNSEL 5Y 8/1 or similar>	
External dimension H x W x D		mm	1,840 x 990 x 840	
Protection devices	High pressure protection		4.15MPa	
	Compressor		Over current protection / Over heat protection	
	Fan		Thermal switch	
	Inverter		Over current protection / Thermal protection	
Refrigerant piping diameter	High press. pipe		ϕ12.7 Flare	
	Low press. pipe		ϕ28.58 Brazed	
Indoor unit	Total capacity		50~130% of outdoor unit capacity	
	Model / Quantity		Model P20~P250 / 1~20	
Noise level *2		dB<A>	60 / 60	
Net weight		kg	233	
Operating temperature range			Cooling	Heating
			Indoor : 15˚CWB ~ 24˚CWB Outdoor: -5˚CDB ~ 43˚CDB (0˚CDB ~ 43˚CDB, when the outdoor unit is at a lower position)	Indoor : 15˚CDB ~ 27˚CDB Outdoor: -20˚CWB ~ 15.5˚CWB

Note: *1. Cooling/Heating capacity indicates the maximum value at operation under the following condition.

† <Cooling> Indoor : 27˚CDB / 19˚CWB Outdoor : 35˚CDB
<Heating> Indoor : 20˚CDB Outdoor : 7˚CDB / 6˚CWB
Pipe length : 7.5m Height difference : 0m

†† <Cooling> Indoor : 27˚CDB / 19.5˚CWB Outdoor : 35˚CDB
Pipe length : 5m Height difference : 0m

*2. It is measured in anechoic room.

** Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.

Ref.: M-WYNCO-6930&6943

Model name			PUY-P200YGM-A (-BS)	PUY-P250YGM-A (-BS)
			Cooling	Cooling
Capacity	*1 †	kW	22.4	28.0
	*1 †	BTU/h	76,400	95,500
	*1 ††	kcal/h	20,000	25,000
Power source			3N ~ 380/400/415V 50/60Hz	
Power input		kW	6.14	7.72
Current		A	10.3 / 9.8 / 9.4	13.0 / 12.3 / 11.9
Fan	Type x Quantity		Propeller fan x 1	
	Airflow rate	m^3/min	200	
	Motor output	kW	0.38	
Compressor	Type		Hermetic	
	Motor output	kW	4.7	6.7
	Crankcase heater	kW	0.045 x 1	
Heat exchanger			Salt resistant fin	
Refrigerant / Lubricant			R410A / MEL56	R410A / MEL32
External finish			Pre-coated galvanized sheets (+ powder coating for –BS type) <MUNSEL 5Y 8/1 or similar>	
External dimension H x W x D		mm	1,840 x 990 x 840	
Protection devices	High pressure protection		4.15MPa	
	Compressor		Over current protection / Over heat protection	
	Fan		Thermal switch	
	Inverter		Over current protection / Thermal protection	
Refrigerant piping diameter	High press. pipe		ϕ 9.52 Flare	ϕ 9.52 Flare (ϕ 12.7 for over 90m)
	Low press. pipe		ϕ 19.05 Brazed	ϕ 22.2 Brazed
Indoor unit	Total capacity		50~130% of outdoor unit capacity	
	Model / Quantity		Model P20~P250 / 1~13	Model P20~P250 / 1~16
Noise level	*2	dB<A>	56 / 56	57 / 57
Net weight		kg	218	233
			Cooling	Cooling
Operating temperature range			Indoor : 15˚CWB ~ 24˚CWB Outdoor: -5˚CDB ~ 43˚CDB (0˚CDB ~ 43˚CDB, when the outdoor unit is at a lower position)	Indoor : 15˚CWB ~ 24˚CWB Outdoor: -5˚CDB ~ 43˚CDB (0˚CDB ~ 43˚CDB, when the outdoor unit is at a lower position)

Note: *1. Cooling/Heating capacity indicates the maximum value at operation under the following condition.
† <Cooling> Indoor : 27˚CDB / 19˚CWB Outdoor : 35˚CDB Pipe length : 7.5m Height difference : 0m
†† <Cooling> Indoor : 27˚CDB / 19.5˚CWB Outdoor : 35˚CDB Pipe length : 5m Height difference : 0m
*2. It is measured in anechoic room.

** Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.

Ref.: M-WYNCO-7255&7259-7256&7260

Model name			PUY-P300YGM-A (-BS)	PUY-P350YGM-A (-BS)
			Cooling	Cooling
Capacity	*1 †	kW	33.5	40.0
	*1 †	BTU/h	114,300	136,500
	*1 ††	kcal/h	30,000	35,000
Power source			3N ~ 380/400/415V 50/60Hz	
Power input		kW	9.57	11.39
Current		A	16.1 / 15.3 / 14.7	19.2 / 18.2 / 17.6
Fan	Type x Quantity		Propeller fan x 1	
	Airflow rate	m^3/min	200	
	Motor output	kW	0.38	
Compressor	Type		Hermetic	
	Motor output	kW	8.0	9.6
	Crankcase heater	kW	0.045 x 1	
Heat exchanger			Salt resistant fin	
Refrigerant / Lubricant			R410A / MEL32	
External finish			Pre-coated galvanized sheets (+ powder coating for –BS type) <MUNSEL 5Y 8/1 or similar>	
External dimension H x W x D		mm	1,840 x 990 x 840	
Protection devices	High pressure protection		4.15MPa	
	Compressor		Over current protection / Over heat protection	
	Fan		Thermal switch	
	Inverter		Over current protection / Thermal protection	
Refrigerant piping diameter	High press. pipe		ø 9.52 Flare (ø 12.7 for over 40m)	ø 12.7 Flare
	Low press. pipe		ø 22.2 Brazed	ø 28.58 Brazed
Indoor unit	Total capacity		50~130% of outdoor unit capacity	
	Model / Quantity		Model P20~P250 / 1~19	Model P20~P250 / 1~20
Noise level *2		dB<A>	59 / 59	60 / 60
Net weight		kg	233	
Operating temperature range			Cooling Indoor : 15˚CWB ~ 24˚CWB Outdoor: -5˚CDB ~ 43˚CDB (0˚CDB ~ 43˚CDB, when the outdoor unit is at a lower position)	Cooling Indoor : 15˚CWB ~ 24˚CWB Outdoor: -5˚CDB ~ 43˚CDB (0˚CDB ~ 43˚CDB, when the outdoor unit is at a lower position)

Note: *1. Cooling/Heating capacity indicates the maximum value at operation under the following condition.
† <Cooling> Indoor : 27˚CDB / 19˚CWB Outdoor : 35˚CDB Pipe length : 7.5m Height difference : 0m
†† <Cooling> Indoor : 27˚CDB / 19.5˚CWB Outdoor : 35˚CDB Pipe length : 5m Height difference : 0m
*2. It is measured in anechoic room.

** Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.

Ref.: M-WYNCO-7257&7261-7258&7262

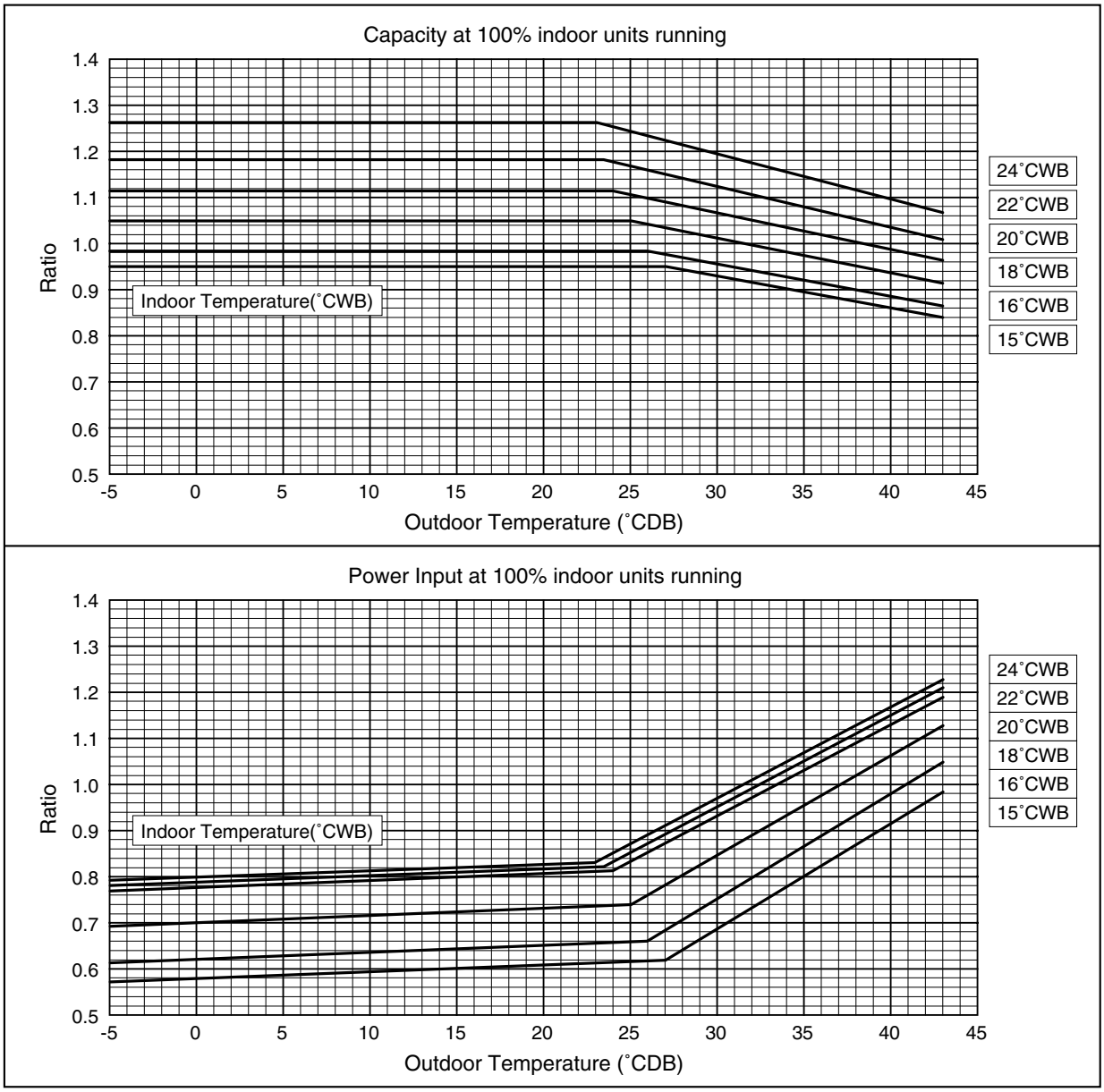
2. Capacity Table

2-1. Correction by temperature

Cooling

• Standard Specifications

		PU(H)Y-P200YGM	PU(H)Y-P250YGM
Capacity	kW	22.4	28.0
Input	kW	6.14	7.72

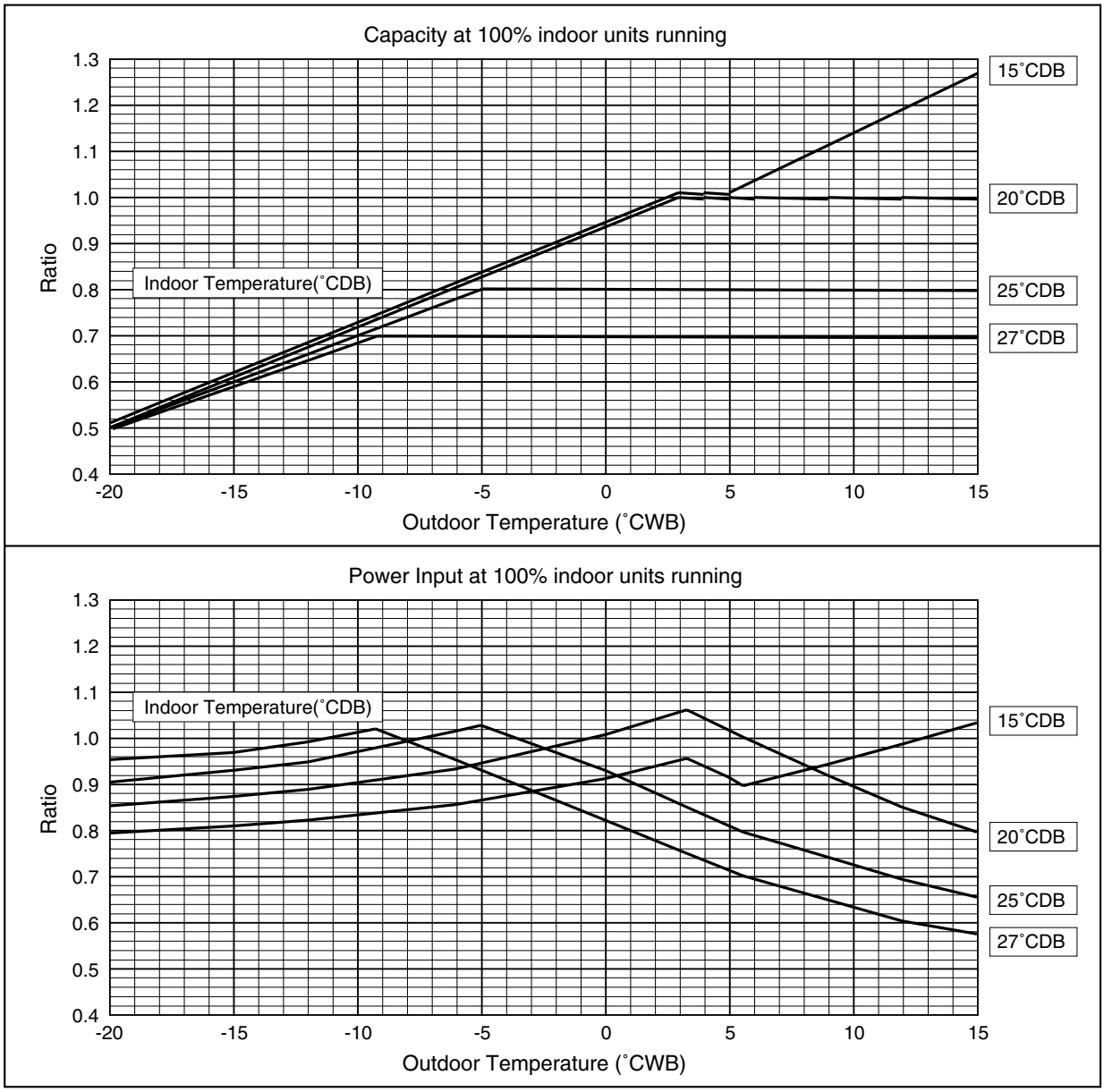


Ref: cap&inpc-p200-250

Heating

• Standard Specifications

		PUHY-P200YGM	PUHY-P250YGM
Capacity	kW	25.0	31.5
Input	kW	5.98	7.62

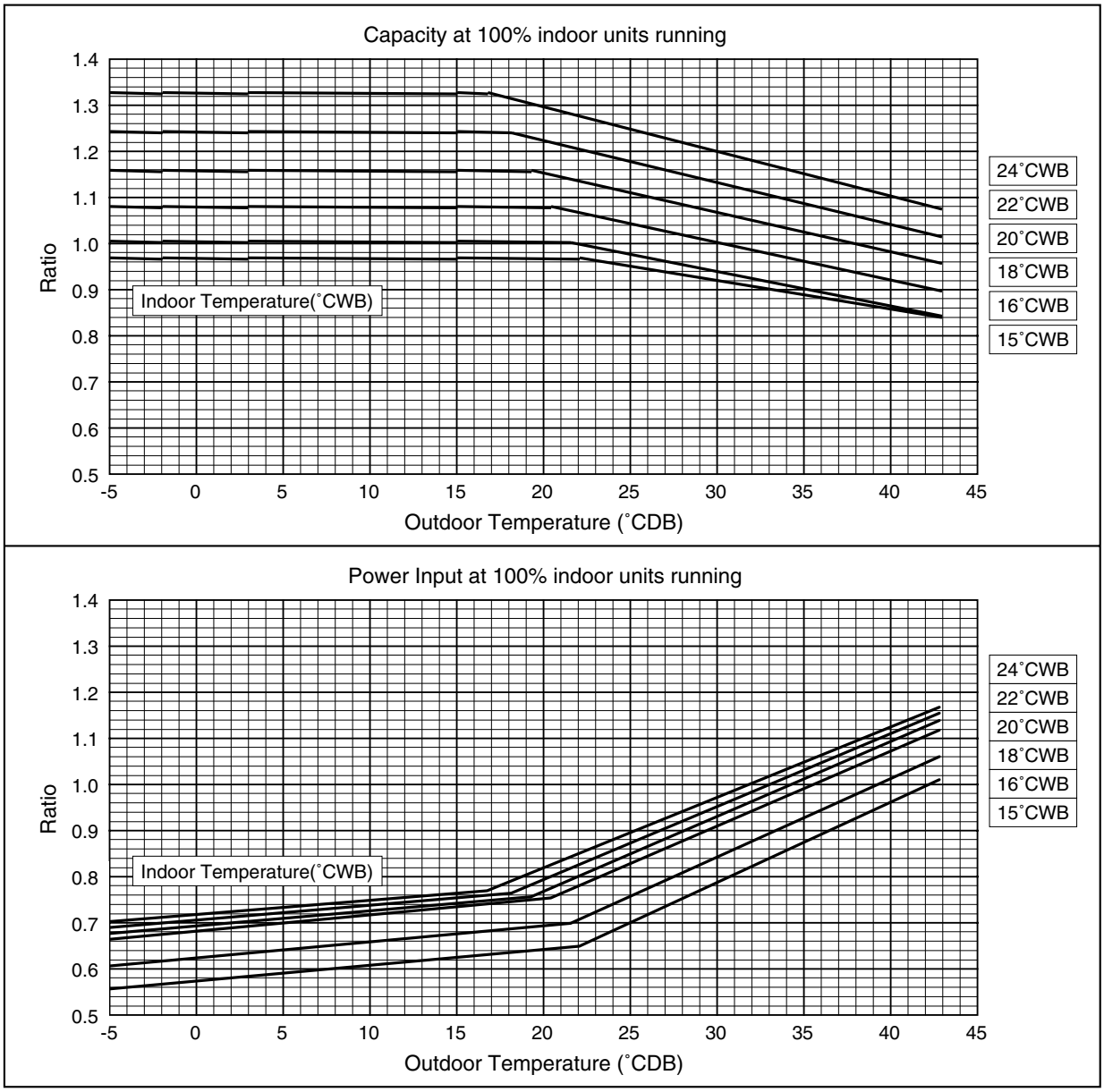


Ref: cap&inph-p200-250

Cooling

• Standard Specifications

		PU(H)Y-P300YGM	PU(H)Y-P350YGM
Capacity	kW	33.5	40.0
Input	kW	9.57	11.39

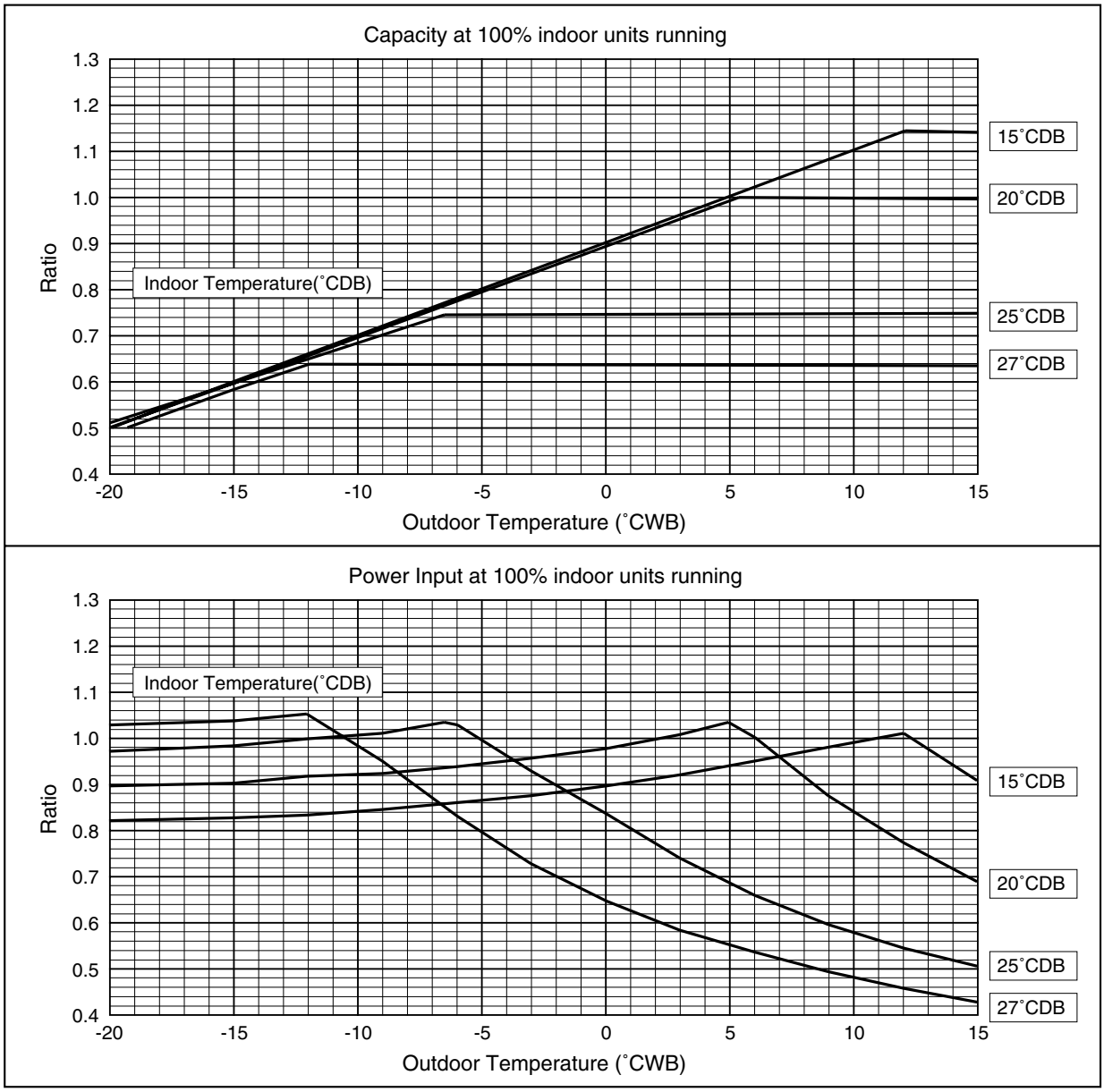


Ref: cap&inpc-p300-400

Heating

• Standard Specifications

		PUHY-P300YGM	PUHY-P350YGM
Capacity	kW	37.5	45.0
Input	kW	9.10	11.02

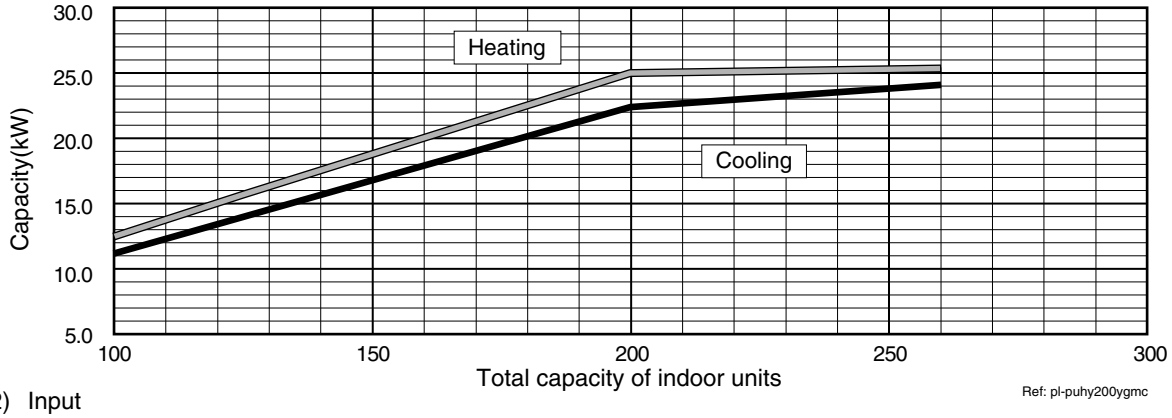


Ref: cap&inph-p300-400

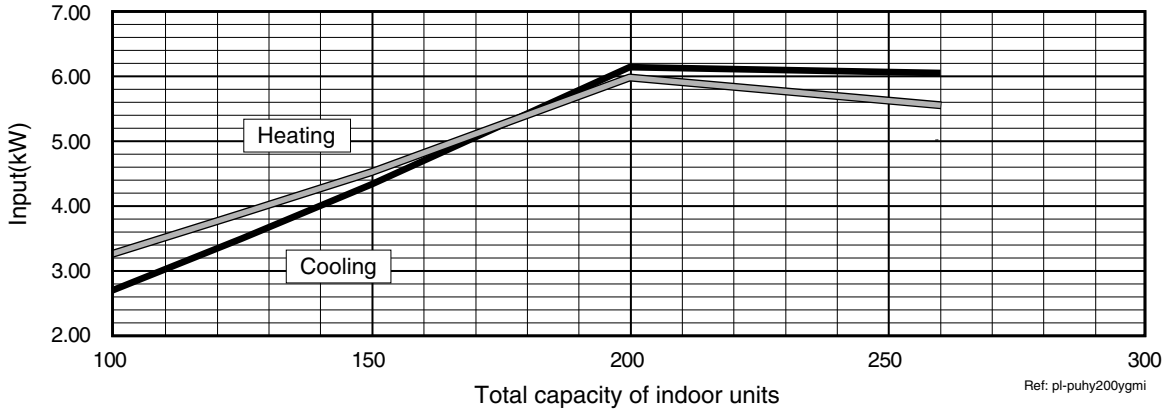
2-2. Correction by total indoor

PU(H)Y-P200YGM

1) Capacity

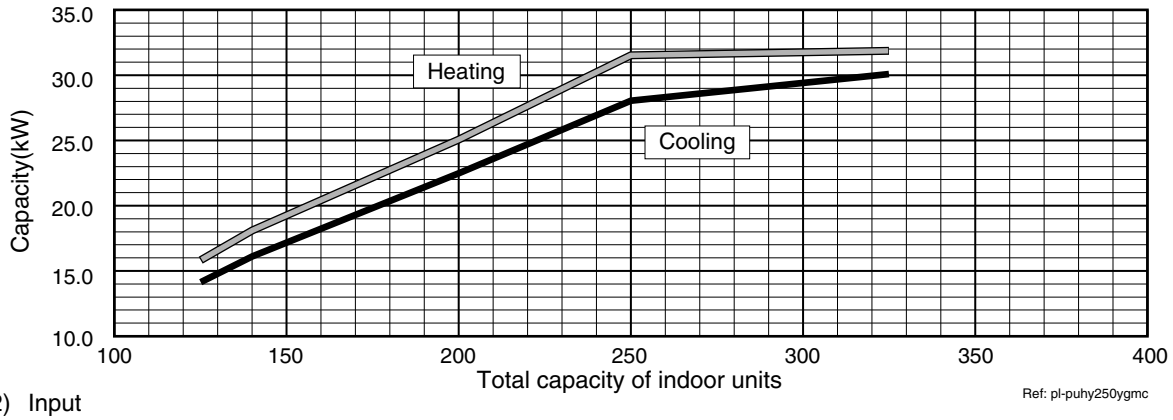


2) Input

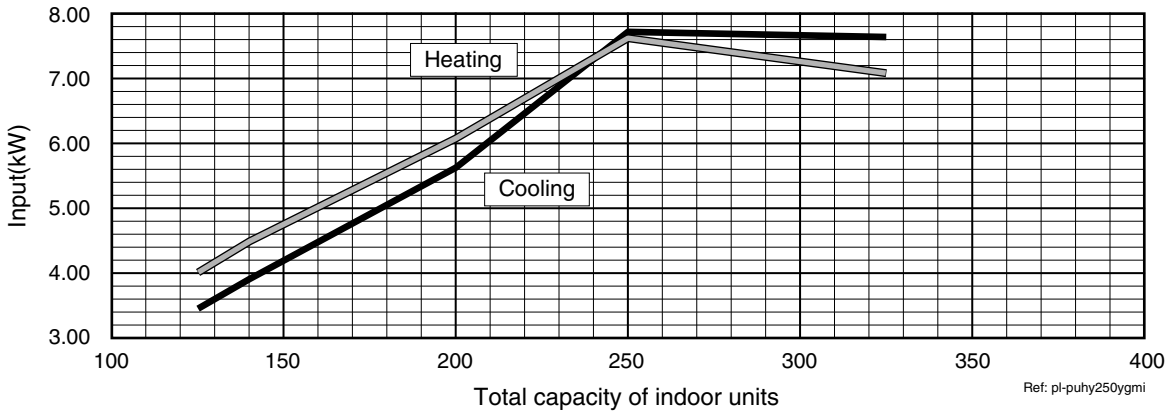


PU(H)Y-P250YGM

1) Capacity

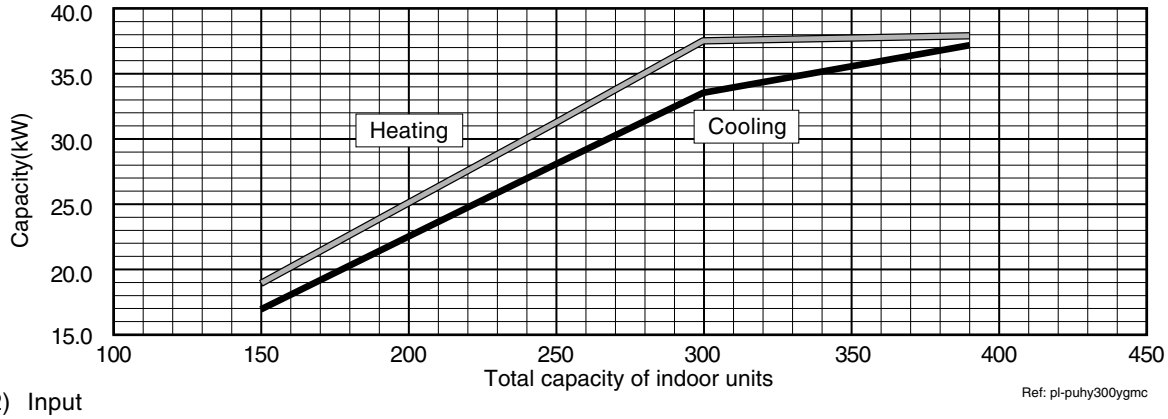


2) Input

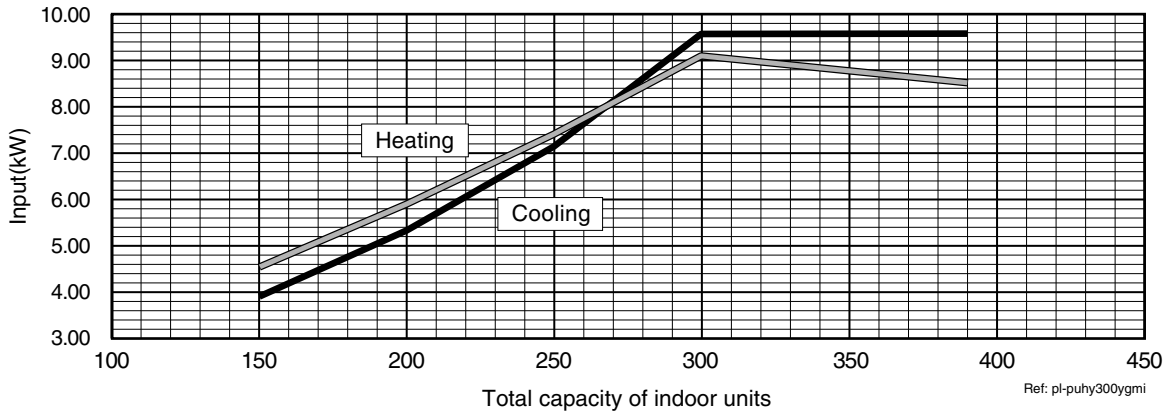


PU(H)Y-P300YGM

1) Capacity

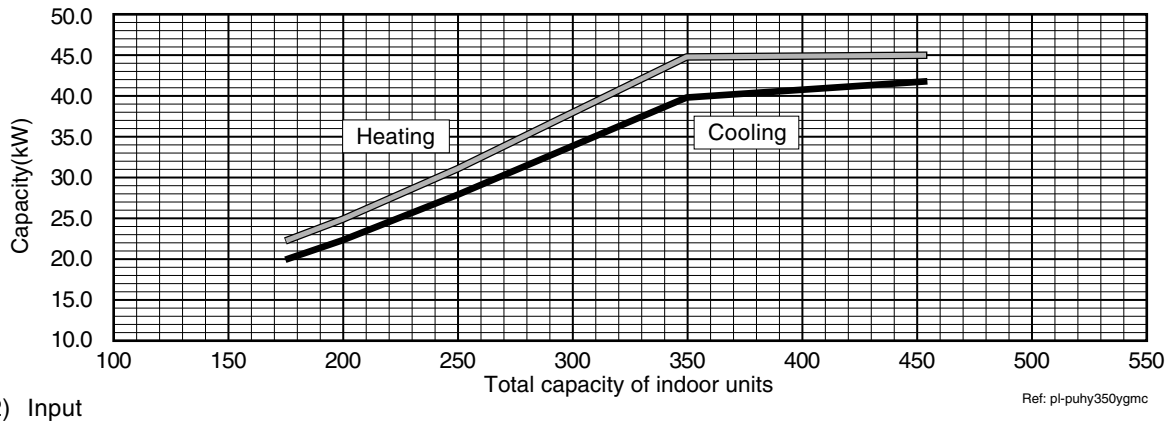


2) Input

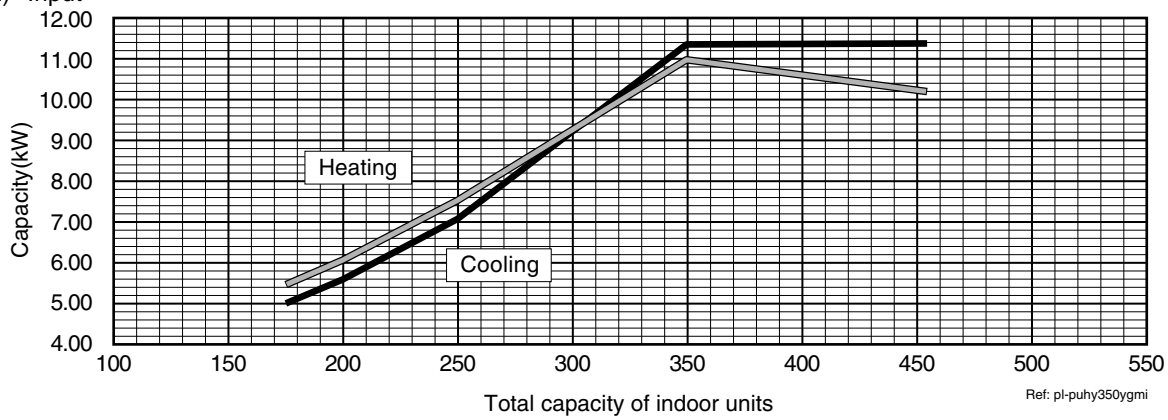


PU(H)Y-P350YGM

1) Capacity



2) Input

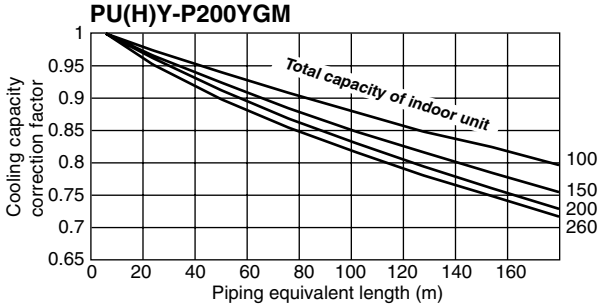


2-3. Correction by refrigerant piping length

Due to the extension of refrigerant piping, a decrease of cooling/heating capacity happens. The actual capacity is considered by multiplying the correction factor according to the equivalent length of the refrigerant piping shown at the table below.

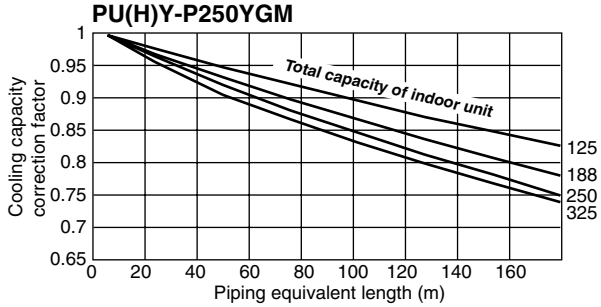
• Cooling capacity correction

PU(H)Y-P200YGM



Ref.: crpl-p200ygmc

PU(H)Y-P250YGM



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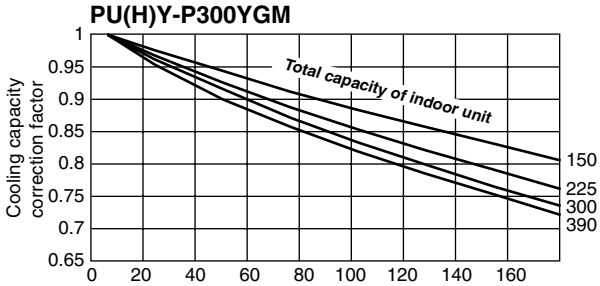
PU(H)Y-P300YGM



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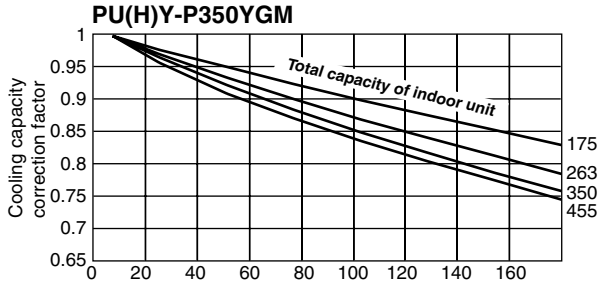
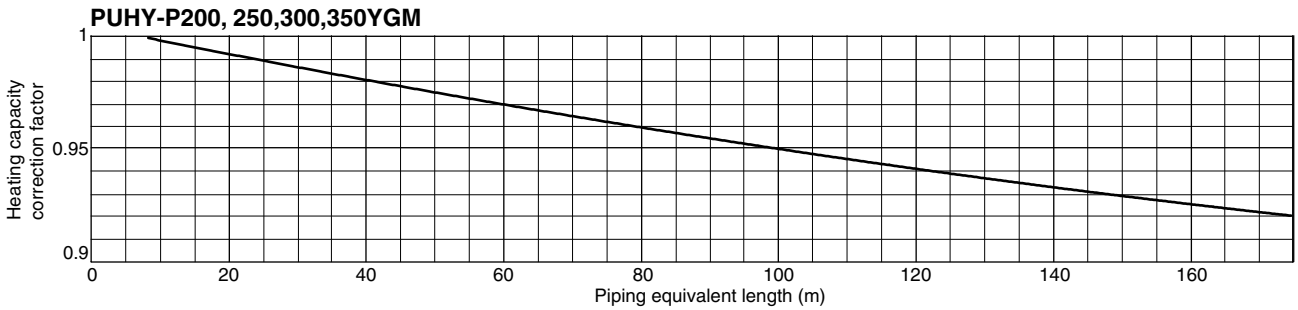
PU(H)Y-P350YGM



Ref.: crpl-p350ygmc

• Heating capacity correction

PUHY-P200, 250,300,350YGM



Ref.: h200-250ygm-MEE03W211(P63)

• How to obtain piping equivalent length

1 **PU(H)Y, PURY-P200YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.35 x number of bent on the piping) m

2 **PU(H)Y, PURY-P250,300YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.42 x number of bent on the piping) m

3 **PU(H)Y, PURY-P350YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.47 x number of bent on the piping) m

4 **PUHY, PURY-P400,450,500,550,600,650YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.50 x number of bent on the piping) m

5 **PUHY-P700,750,800YSGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.70 x number of bent on the piping) m

2-4. Correction at frosting and defrosting

Due to frosting at the outdoor heat exchanger and the automatical defrosting operation, the heating capacity of the outdoor unit should be considered by multiplying the correction factor which shown in the table below.

Table of correction factor

PU(H)Y-P200, 250YGM

Outdoor inlet air temp (˚CWB)	6	4	2	1	0	-2	-4	-6	-8	-10	-20
Correction factor	1.0	0.95	0.84	0.83	0.83	0.87	0.90	0.95	0.95	0.95	0.95

Ref.: def-ygmp200-250

PU(H)Y-P300YGM

Outdoor inlet air temp (˚CWB)	6	4	2	1	0	-2	-4	-6	-8	-10	-20
Correction factor	1.0	0.93	0.82	0.80	0.82	0.86	0.90	0.90	0.95	0.95	0.95

Ref.: def-ygmp300

PU(H)Y-P350YGM

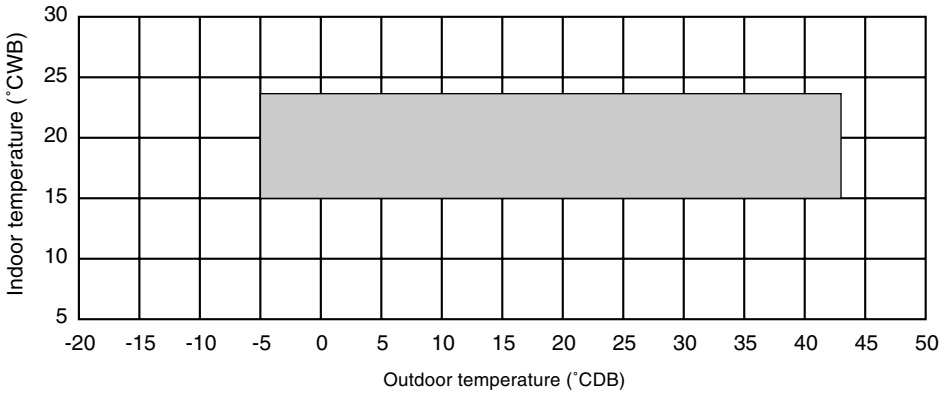
Outdoor inlet air temp (˚CWB)	6	4	2	1	0	-2	-4	-6	-8	-10	-20
Correction factor	1.0	0.93	0.85	0.83	0.84	0.86	0.90	0.90	0.95	0.95	0.95

Ref.: def-ygmp350

2-5. Operation limit

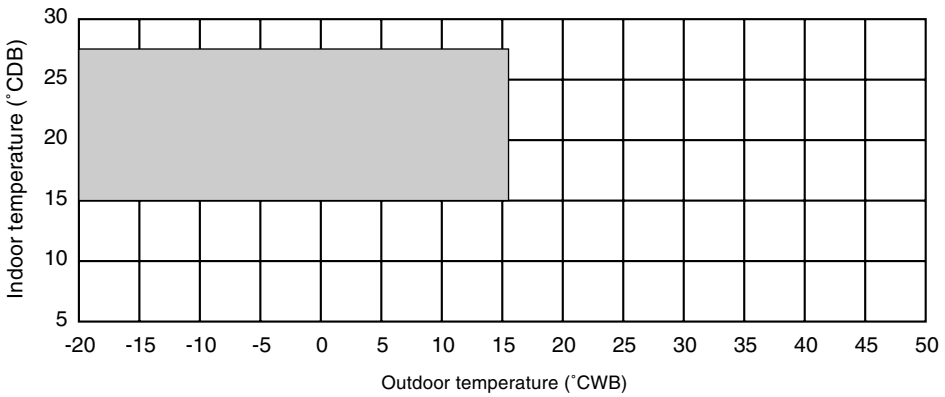
PUHY-P200, 250, 300, 350YGM

• Cooling



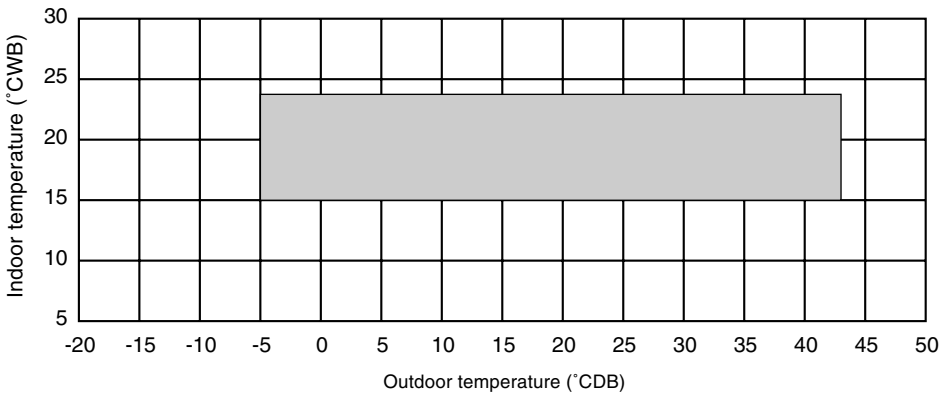
* The operation temperature of outdoor unit is limited into 0~43˚CDB when the outdoor unit is at a postion lower than the indoor units.

• Heating



PUY-P200, 250, 300, 350YGM

• Cooling



Ref.: ol-ygmc

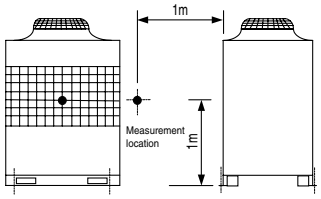
* The operation temperature of outdoor unit is limited into 0~43˚CDB when the outdoor unit is at a postion lower than the indoor units.

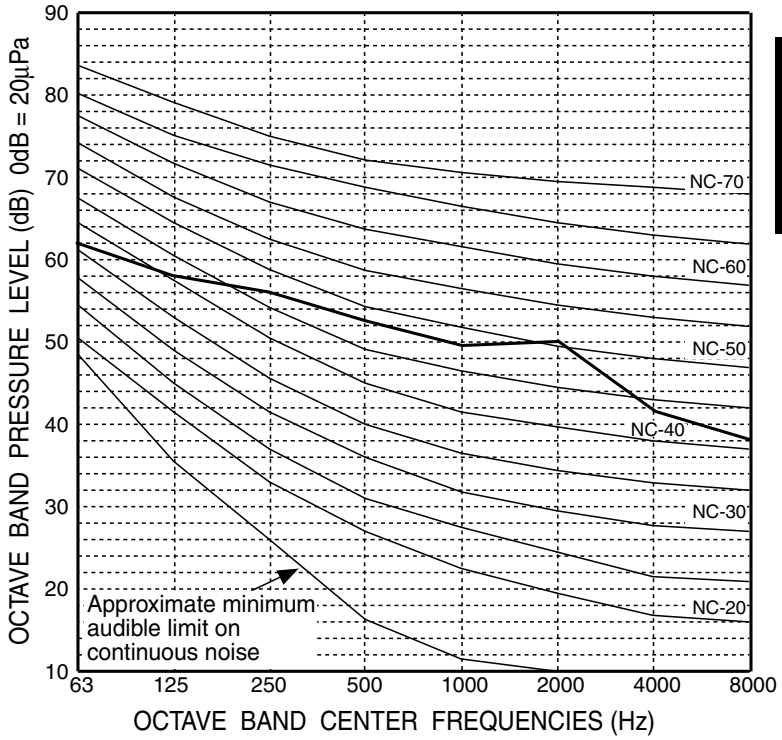
3. Sound Levels

PU(H)Y-P200YGM

63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	dB(A)
62	58	56	52.5	49.5	50	41.5	38	56

Measurement condition



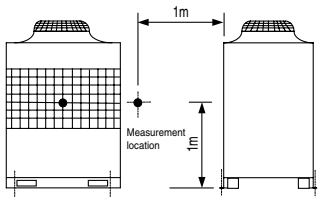


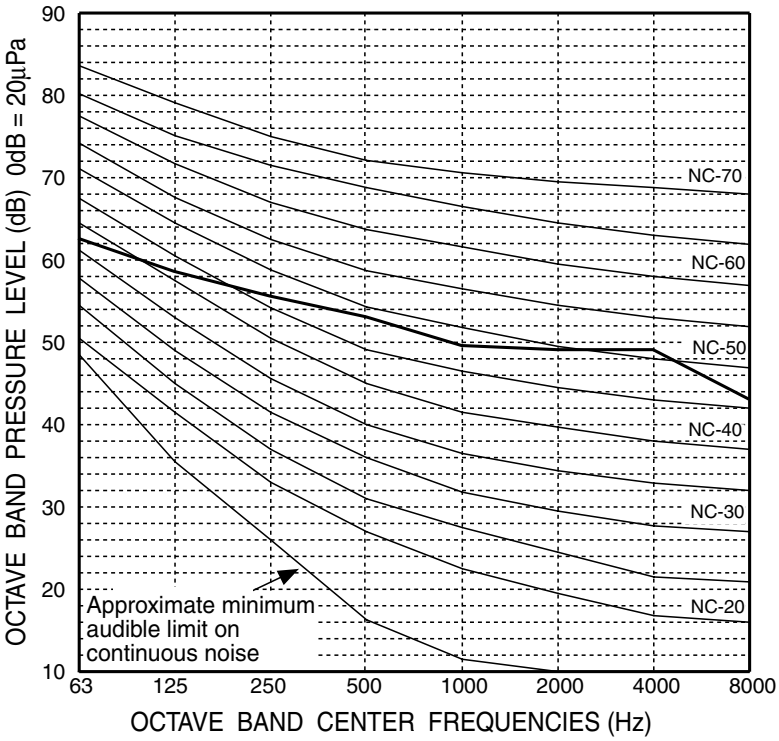
Ref.: h200ygm-WYNB0-3270

PU(H)Y-P250YGM

63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	dB(A)
62.5	58.5	55.5	53	49.5	49	49	43	57

Measurement condition



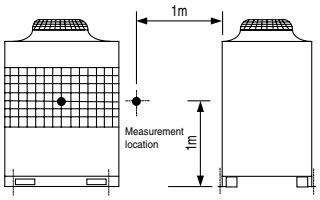


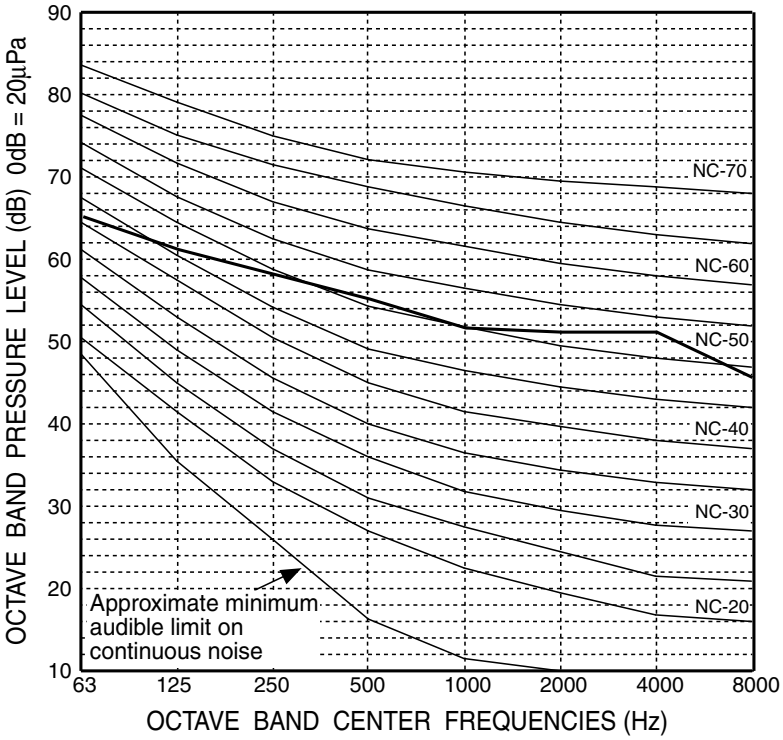
Ref.: h250ygm-WYNB0-3271

PU(H)Y-P300YGM

63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	dB(A)
65	61	58	55	51.5	51	51	45.5	59

Measurement condition



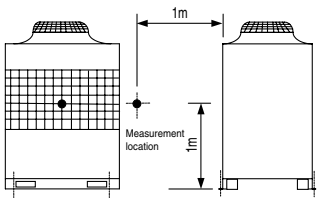


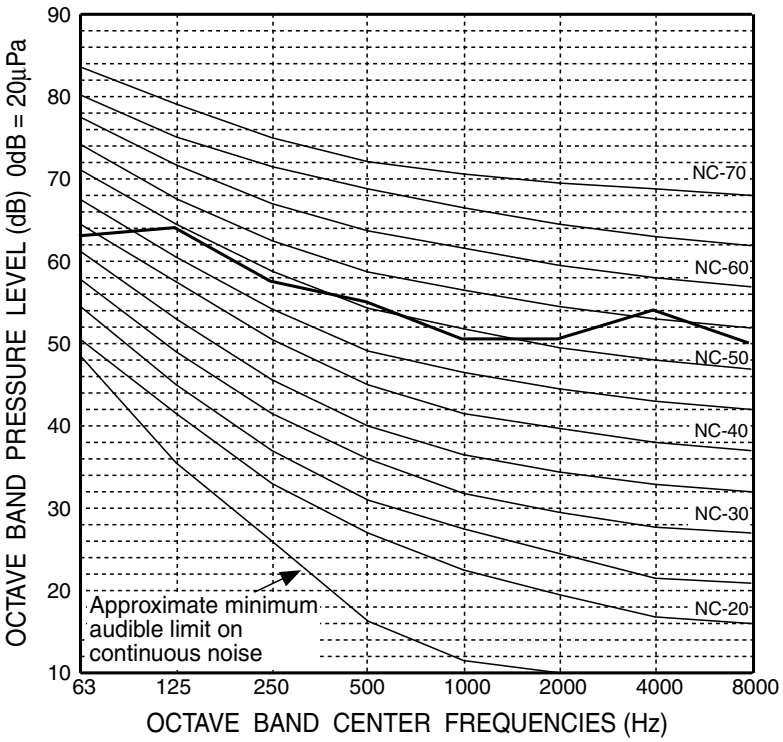
Ref.: h300ygm-WYNB0-3272

PU(H)Y-P350YGM

63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	dB(A)
63	64	57.5	55	50.5	50.5	54	50	60

Measurement condition



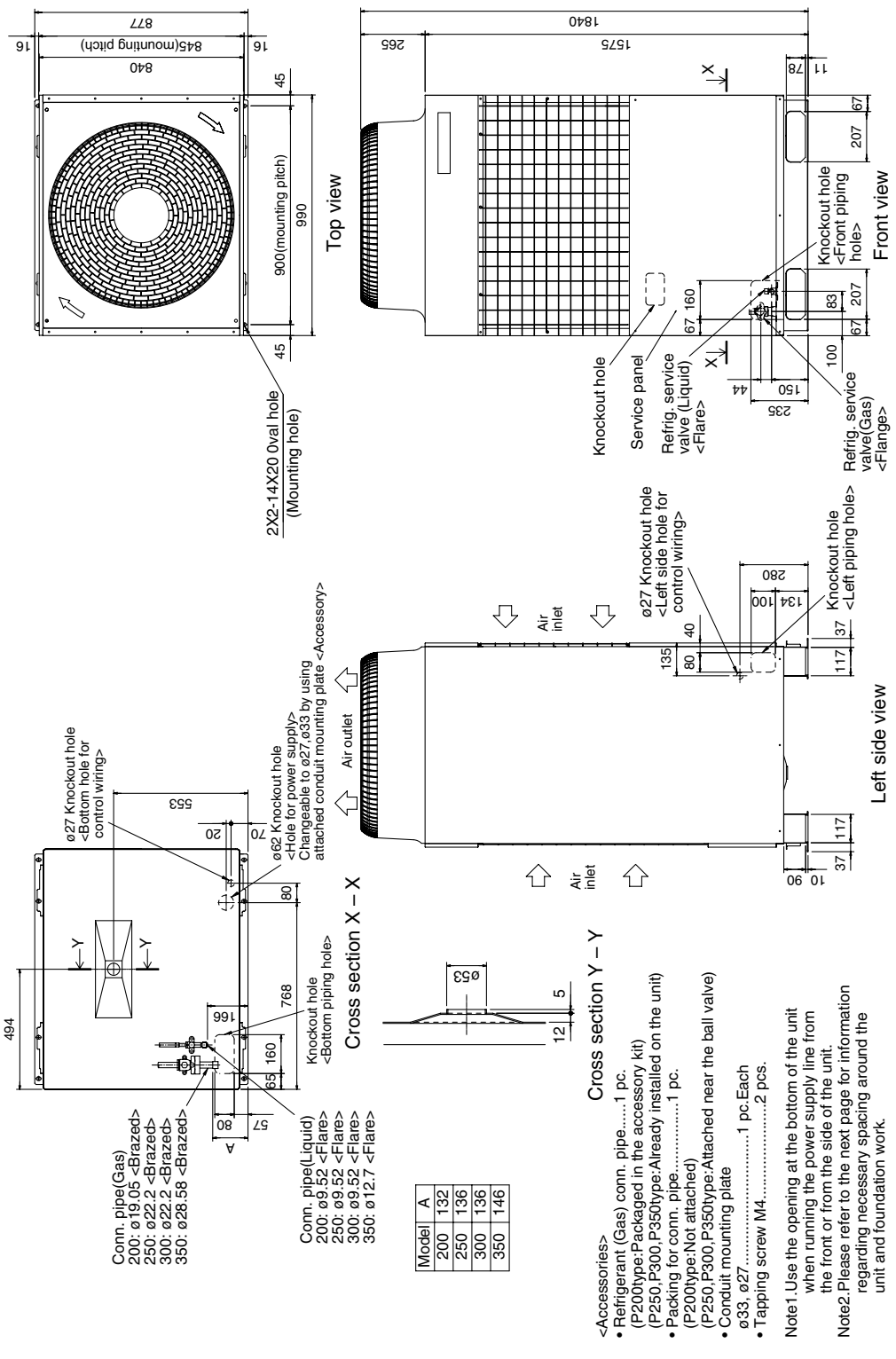


Ref.: h350ygm-WYNB0-3274

4. External Dimensions

PU(H)Y-P200,250,300,350YGM-A(-BS)

Unit : mm

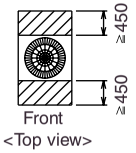


Spacing of PU(H)Y-P200,250,300,350YGM-A(-BS)

1.Space required around unit

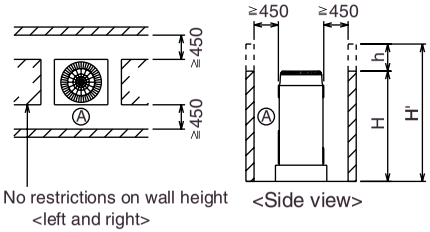
✻ In case of single installation [Basic rules for spacing the unit]

①Since the service from the back of unit is required, provide the back space 450 mm or above as the front.



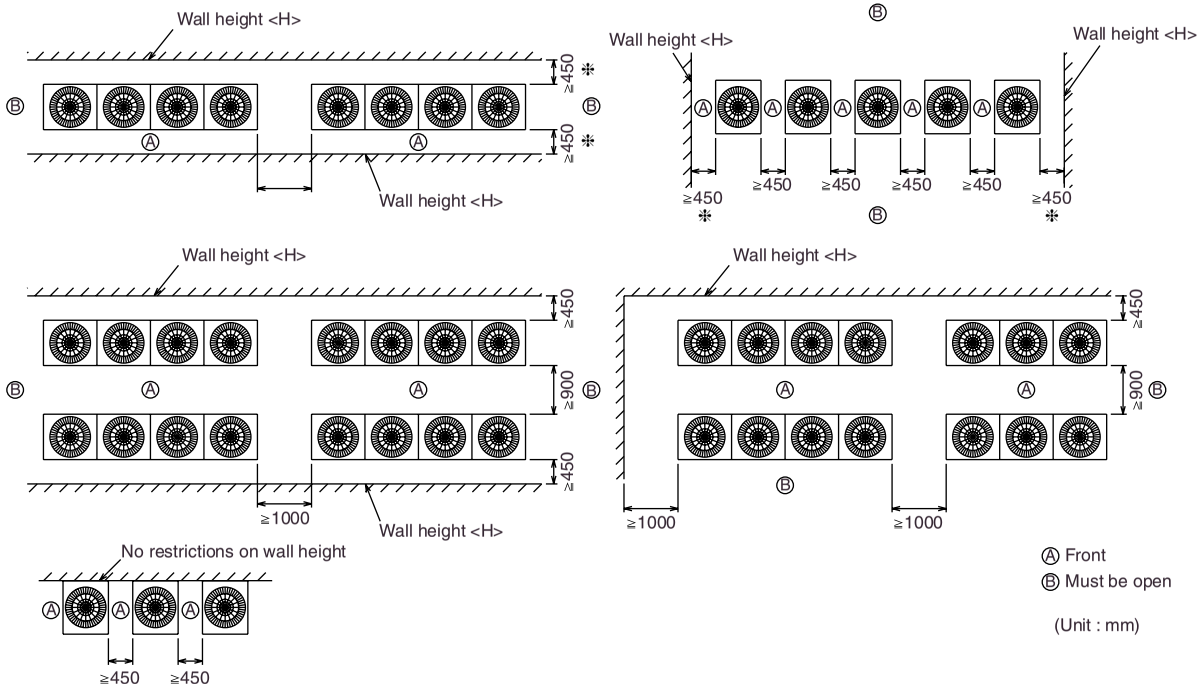
[When inlet air enters from right and left sides of unit]

①Wall heights <H> of the front and the back sides shall be within total height of unit.
②When wall height <H'> exceeds total height of unit, add <h> dimension to 450 of the following figure.
h= wall height <H'> - total height of unit.



✻ In case of collective installation and continuous installation

①Space required for collective installation and continuous installation:
When installing several units, provide the space between each block considering passage for air and people.
②Open in two directions.
③In case of wall height <H> exceeds total height of unit, add <h> dimension (h= wall height <H> - total height of unit) to ✻ marked dimension.
④If there is a wall at both the front and the rear of the unit, install up to four units consecutively in the side direction and provide a space of 1000 mm or more as inlet space/passage space for each four units.

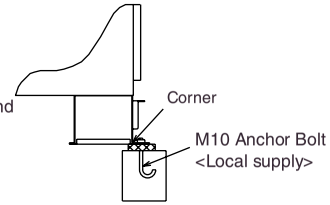


Ⓐ Front
Ⓑ Must be open

(Unit : mm)

2.Foundation work

①When building the foundation, give full attention to the floor strength, drain water disposal <drain water flows out of the unit, during operation>, piping and wiring routes.
②Be sure that the corners are firmly seated. If the corners are not firmly seated, the installation feet may be bent.
③When down piping and down wiring are performed, be sure that foundation and base work does not block the base through holes.



Ref: ygm-W656818 1/2

5. Electrical Wiring Diagram

PU(H)Y-P200, 250, 300, 350YGM-A(-BS)

< Symbol explanation >

Symbol		Name
ACCT1		AC Current Sensor
DCCT1	※3	DC Current Sensor
DCL1		DC reactor (Power factor improvement)
52C1		Magnetic contactor (Inverter main circuit)
MF1		Fan motor (Radiator panel)
CH11		Crank case heater (Compressor)
21S4a	※5	4-way valve
21S4b		
21S4c	※4	
SV1		Solenoid valve (Discharge-suction bypass)
SV5b		Solenoid valve (Heat exchanger capacity control)
SV5c	※4	
LEV1		Electronic expansion valve (SC coil)
TH11	Thermistor	Discharge pipe temp. detect
TH5		Pipe temp.detect (Hex outlet)
TH6		OA temp.detect
TH7		liquid outlet temp.detect at Sub-cool coil
TH8		bypass outlet temp.detect at Sub-cool coil
THHS1		Radiator panel temp. detect
63H1		High pressure switch
63HS		High pressure sensor
63LS		Low pressure sensor
L1,L2		Choke coil (Transmission)
Z20		Function device
⏚		Earth terminal

< Difference of appliance >

Model name	Appliance
PUHY-P200YGM-A	※3" and "※4" do not exsist.
PUHY-P250,P300,P350YGM-A	"※4" do not exsist.
PUHY-P400YGM-A	All exists
PUY-P200YGM-A	"※2" "※3" "※4" and "※5" do not exsist.
PUY-P250,P300,P350YGM-A	"※2" "※4" and "※5" do not exsist.

※1: Function according to switch operation. (SW4-7,CN3D 1-2P,and CN3D 1-3P)

SW4-7:OFF (Compressor ON/OFF and NIGHT MODE)

CN3D 1-3P	Compressor ON/OFF	CN3D 1-2P	NIGHT MODE
OPEN	ON	OPEN	OFF
SHORT	OFF	SHORT	ON

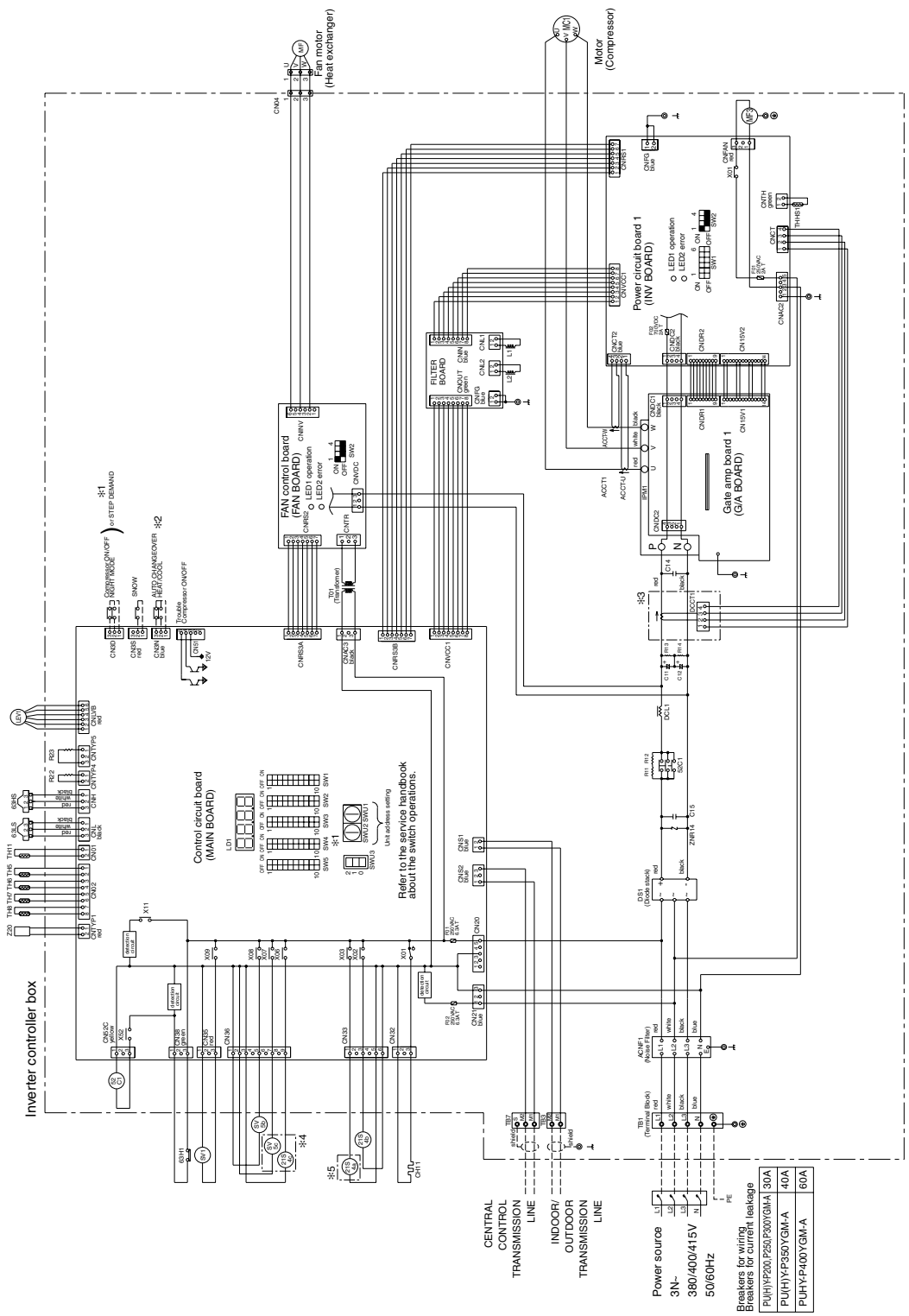
SW4-7:ON (STEP DEMAND)

CN3D 1-2P / CN3D 1-3P	OPEN	SHORT
OPEN	100%	75%
SHORT	0%	50%

※2:Auto changeover (CN3N 1-2P,1-3P)

CN3N 1-3P / CN3N 1-2P	OPEN	SHORT
OPEN	Auto changeover:OFF	-
SHORT	Auto changeover:ON	COOL HEAT

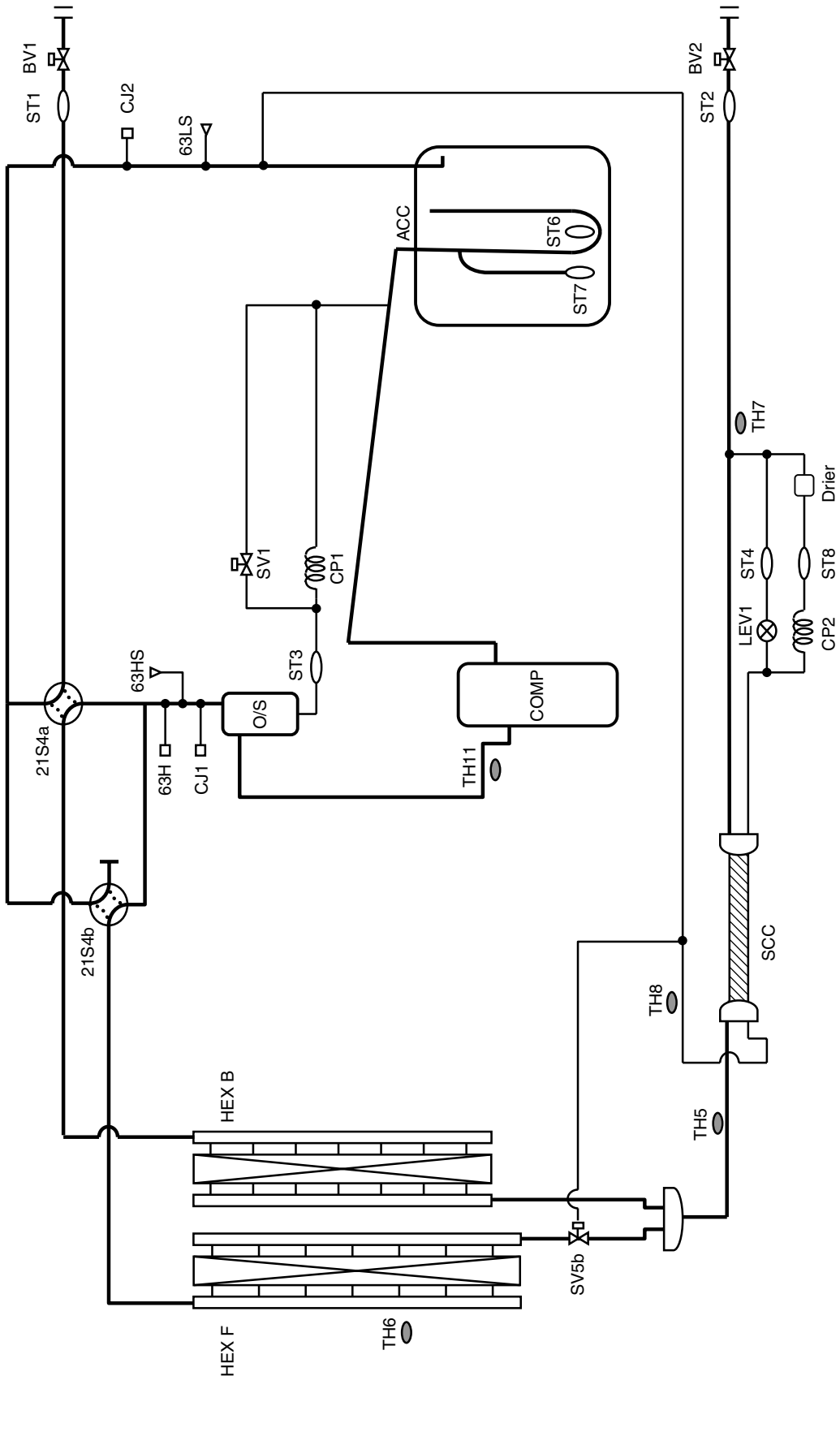
NOTE:The broken lines indicate field wiring.



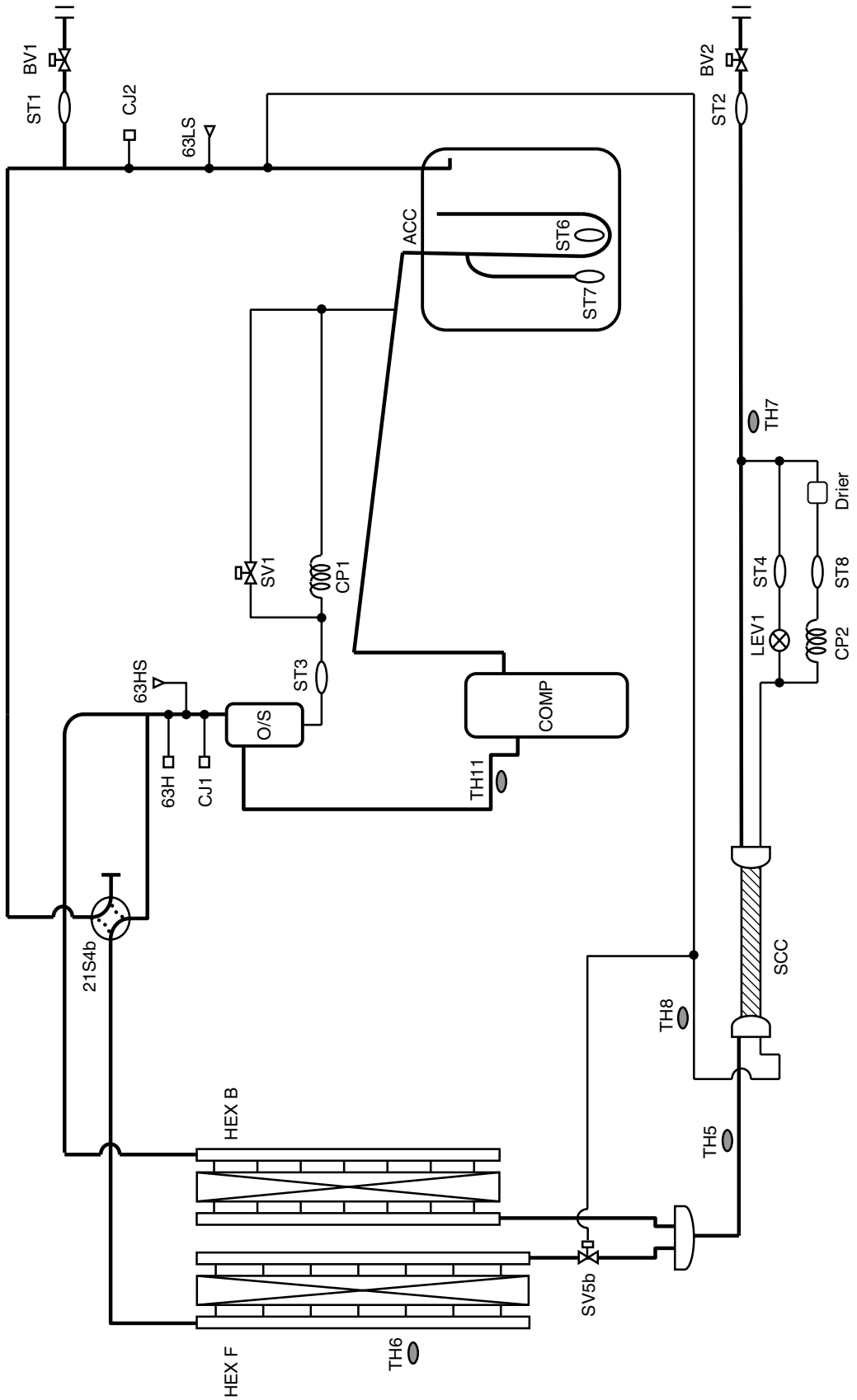
Ref: Yp200~400ygm-W274627

6. Refrigerant Circuit Diagram And Thermal Sensor

PUHY-P200, 250, 300, 350YGM-A(-BS)



PUY-P200, 250, 300, 350YGM-A(-BS)



Ref:rcd-200~350ygmco

PUHY-P400YGM-A (-BS)

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   2-1 Correction by temperature Ⅱ-29
   2-2 Correction by total indoor Ⅱ-31
   2-3 Correction by refrigerant piping length Ⅱ-32
   2-4 Correction at frosting and defrosting Ⅱ-33
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4. External Dimensions Ⅱ-35

5. Electrical Wiring Diagram Ⅱ-37

6. Refrigerant Circuit Diagram And Thermal Sensor Ⅱ-38

1. Specifications

Y-16(R410A)

Model name			PUHY-P400YGM-A (-BS)	
			Cooling	Heating
Capacity	*1 †	kW	45.0	50.0
	*1 †	BTU/h	153,500	170,500
	*1 ††	kcal/h	40,000	-
Power source			3N ~ 380/400/415V 50/60Hz	
Power input		kW	13.42	12.43
Current		A	22.6 / 21.5 / 20.7	20.9 / 19.9 / 19.2
Fan	Type x Quantity		Propeller fan x 1	
	Airflow rate	m^3/min	240	
	Motor output	kW	0.64	
Compressor	Type		Hermetic	
	Motor output	kW	9.7	
	Crankcase heater	kW	0.045 x 1	
Heat exchanger			Salt resistant fin	
Refrigerant / Lubricant			R410A / MEL32	
External finish			Pre-coated galvanized sheets (+ powder coating for –BS type) <MUNSEL 5Y 8/1 or similar>	
External dimension H x W x D		mm	1,840 x 1,290 x 840	
Protection devices	High pressure protection		4.15MPa	
	Compressor		Over current protection / Over heat protection	
	Fan		Thermal switch	
	Inverter		Over current protection / Thermal protection	
Refrigerant piping diameter	High press. pipe		ϕ12.7 Flare	
	Low press. pipe		ϕ28.58 Brazed	
Indoor unit	Total capacity		50~130% of outdoor unit capacity	
	Model / Quantity		Model P20~P250 / 1~22	
Noise level	*2	dB<A>	61 / 61	
Net weight		kg	275	
Operating temperature range			Cooling	Heating
			Indoor : 15˚CWB ~ 24˚CWB Outdoor: -5˚CDB ~ 43˚CDB (0˚CDB ~ 43˚CDB, when the outdoor unit is at a lower position)	Indoor : 15˚CDB ~ 27˚CDB Outdoor: -20˚CWB ~ 15.5˚CWB

Note: *1. Cooling/Heating capacity indicates the maximum value at operation under the following condition.

† <Cooling> Indoor : 27˚CDB / 19˚CWB Outdoor : 35˚CDB
<Heating> Indoor : 20˚CDB Outdoor : 7˚CDB / 6˚CWB
Pipe length : 7.5m Height difference : 0m

†† <Cooling> Indoor : 27˚CDB / 19.5˚CWB Outdoor : 35˚CDB
Pipe length : 5m Height difference : 0m

*2. It is measured in anechoic room.

** Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.

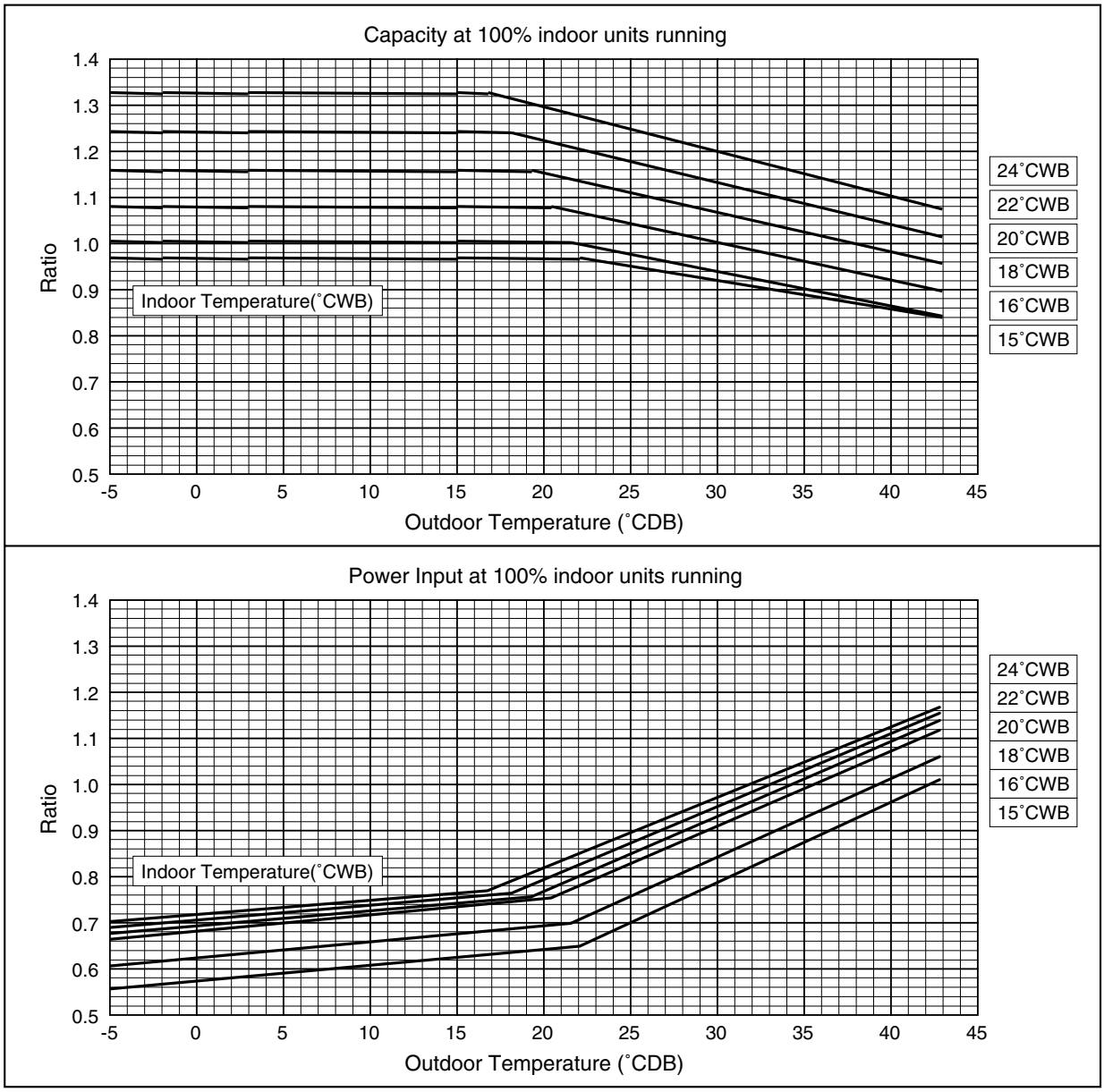
Ref.: M-WYNCO-6931&6944

2. Capacity Table

Cooling

• Standard Specifications

		PUHY-P400YGM
Capacity	kW	45.0
Input	kW	13.42



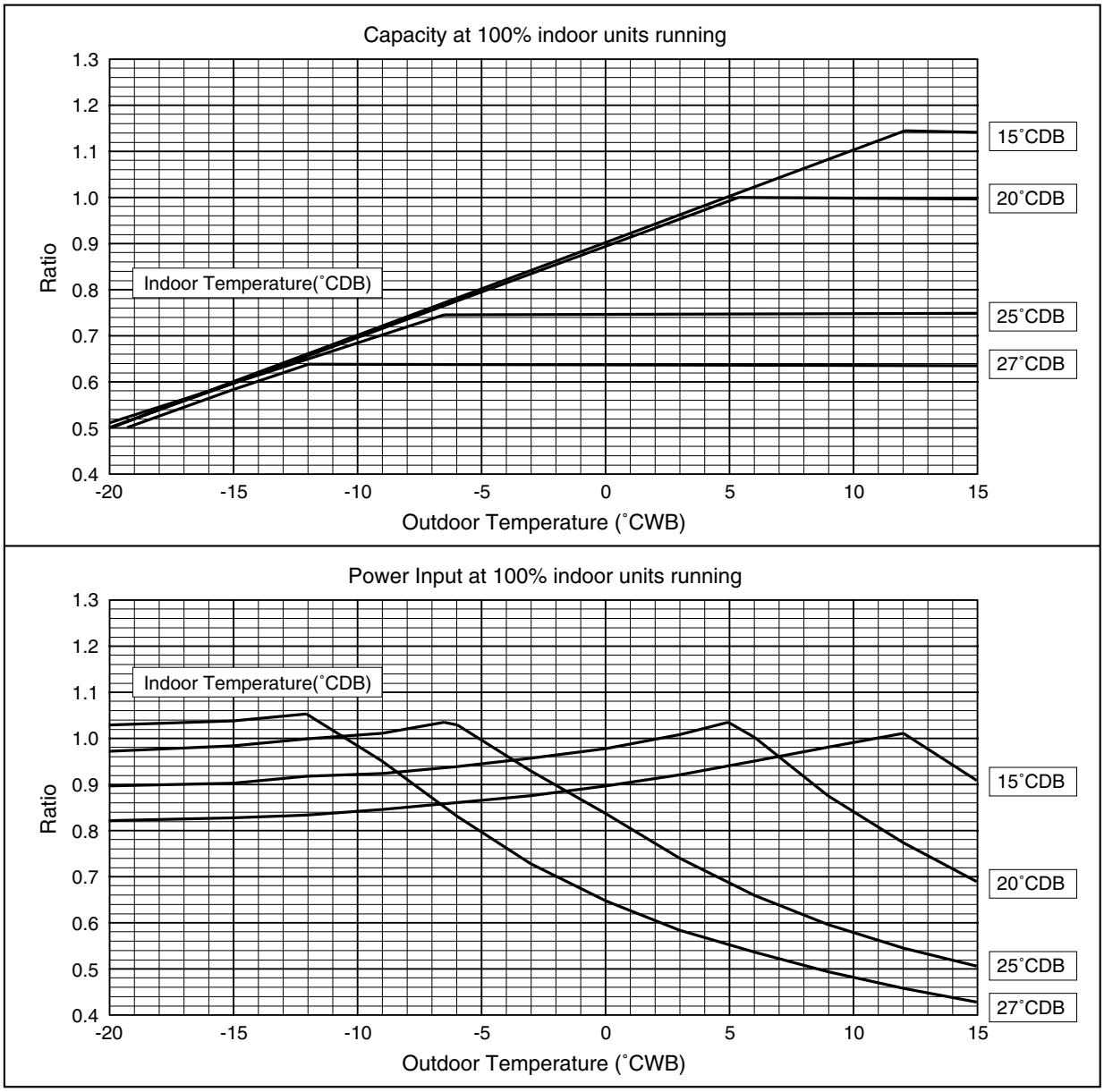
Ref: cap&inpc-p300-400

Y-16(R410A)

Heating

• Standard Specifications

		PUHY-P400YGM
Capacity	kW	50.0
Input	kW	12.43

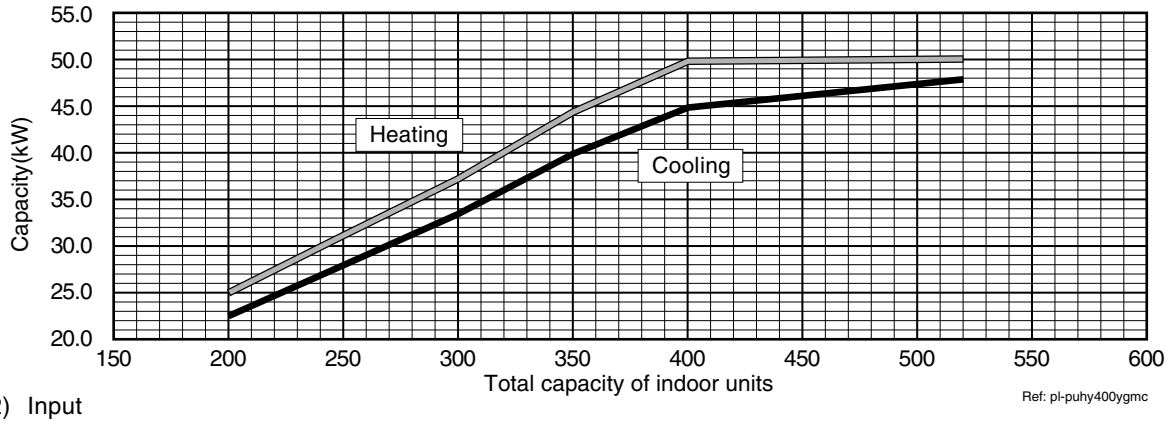


Ref: cap&inph-p300-400

2-2. Correction by total indoor

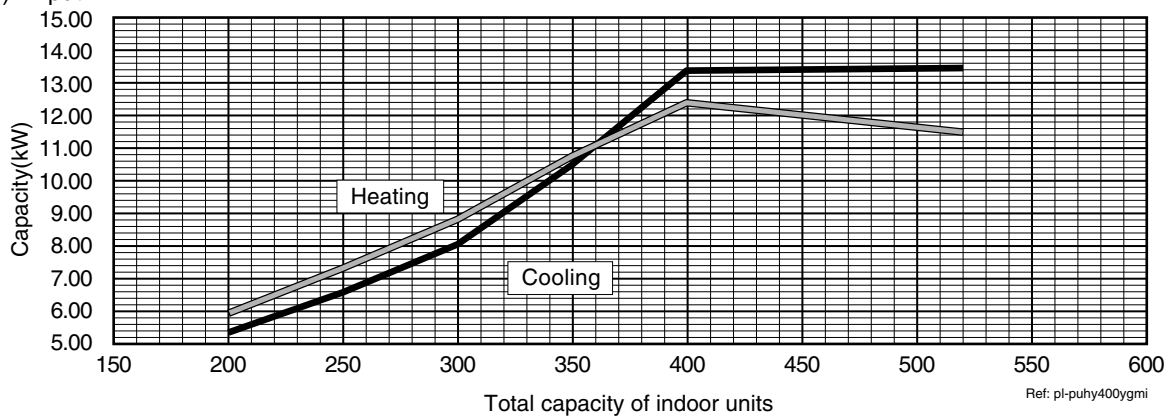
PUHY-P400YGM

1) Capacity



Ref: pl-puhy400ygmc

2) Input



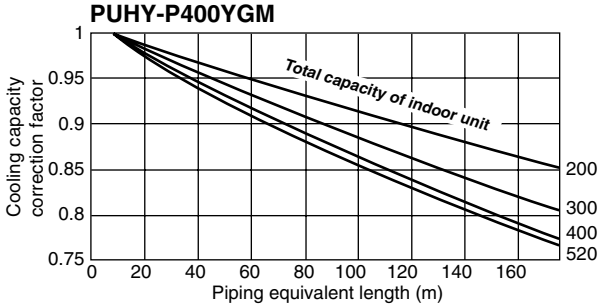
Ref: pl-puhy400ygmi

2-3. Correction by refrigerant piping length

Due to the extension of refrigerant piping, a decrease of cooling/heating capacity happens. The actual capacity is considered by multiplying the correction factor according to the equivalent length of the refrigerant piping shown at the table below.

• Cooling capacity correction

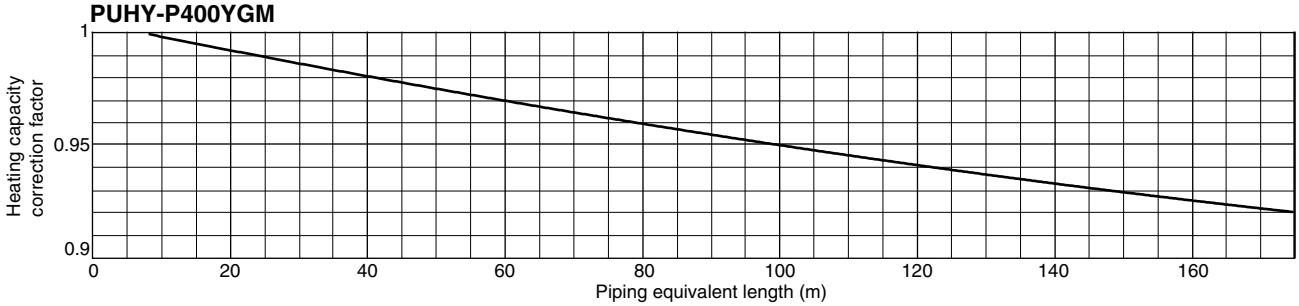
PUHY-P400YGM



Ref.: crpl-p400ygmc

• Heating capacity correction

PUHY-P400YGM



Ref.: h300-400ygm-MEE03W211(P73)

• How to obtain piping equivalent length

1 **PU(H)Y, PURY-P200YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.35 x number of bent on the piping) m

2 **PU(H)Y, PURY-P250,300YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.42 x number of bent on the piping) m

3 **PU(H)Y, PURY-P350YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.47 x number of bent on the piping) m

4 **PUHY, PURY-P400,450,500,550,600,650YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.50 x number of bent on the piping) m

5 **PUHY-P700,750,800YSGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.70 x number of bent on the piping) m

2-4. Correction at frosting and defrosting

Due to frosting at the outdoor heat exchanger and the automatical defrosting operation, the heating capacity of the outdoor unit should be considered by multiplying the correction factor which shown in the table below.

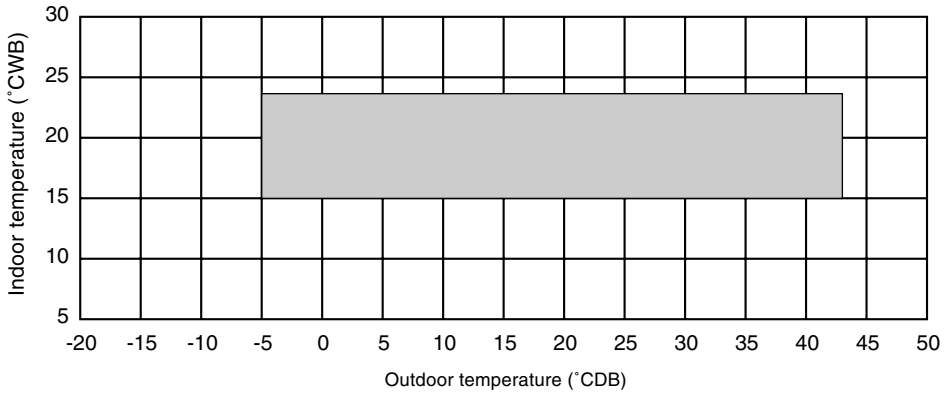
Table of correction factor

Outdoor inlet air temp (˚CWB)	6	4	2	1	0	-2	-4	-6	-8	-10	-20
Correction factor	1.0	0.95	0.90	0.87	0.88	0.89	0.90	0.95	0.95	0.95	0.95

Ref.: def-ygmp400

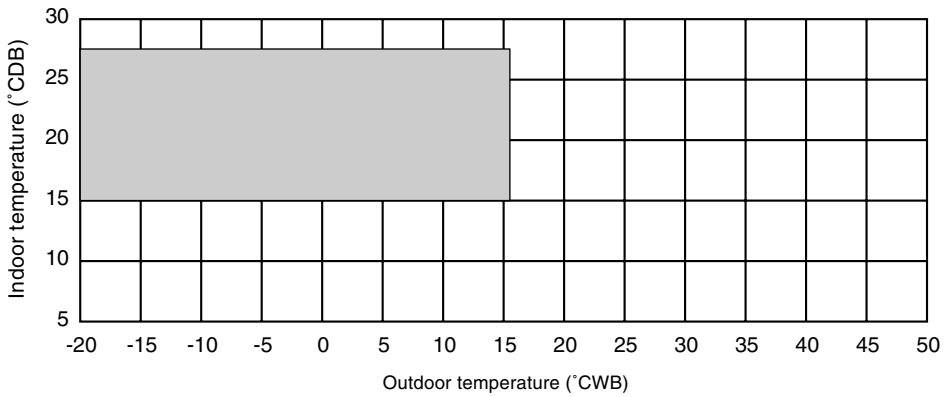
2-5. Operation limit

• Cooling



* The operation temperature of outdoor unit is limited into 0~43˚CDB when the outdoor unit is at a postion lower than the indoor units.

• Heating



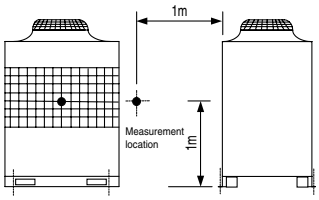
Ref.: ol-ygmhp

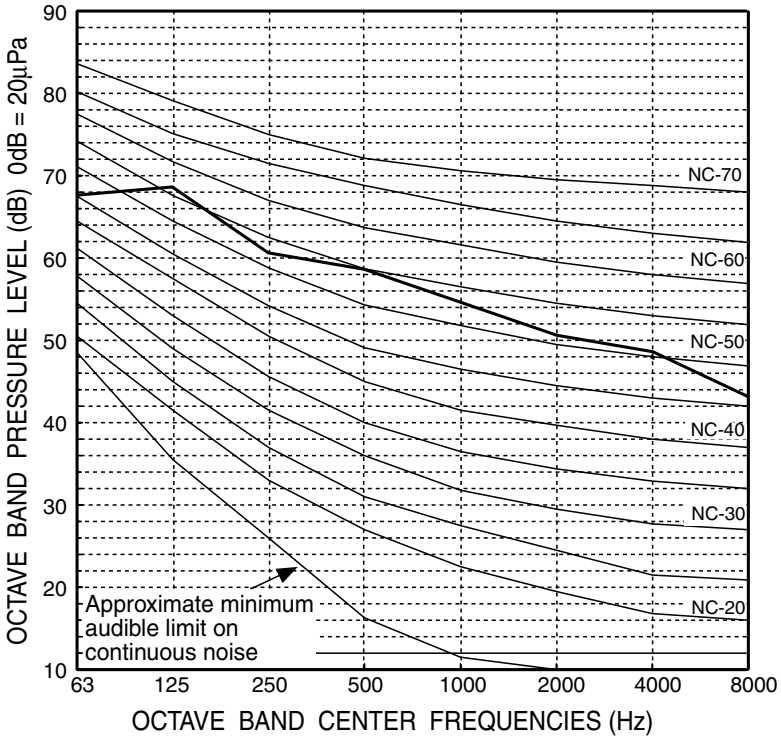
3. Sound Levels

PUHY-P400YGM

63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	dB(A)
67.5	68.5	60.05	58.5	54.5	50.5	48.5	43	61

Measurement condition





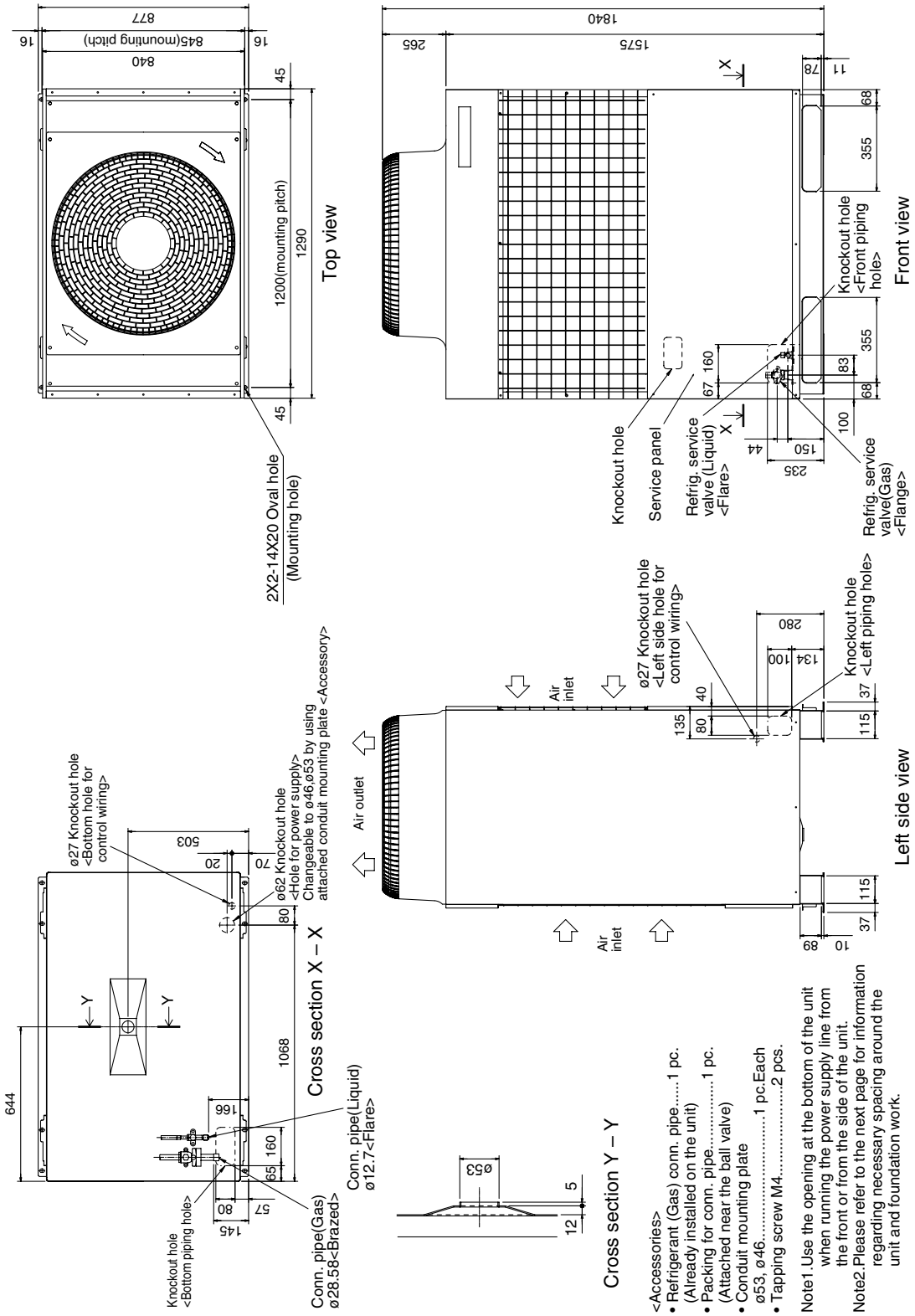
Ref.: h400ygm-WYNB0-3275

Y-16(R410A)

4. External Dimensions

PUHY-P400YGM-A(-BS)

Unit : mm

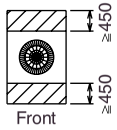


Spacing of PUHY-P400YGM-A(-BS)

1.Space required around unit

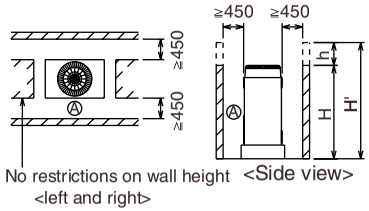
✻ In case of single installation [Basic rules for spacing the unit]

①Since the service from the back of unit is required, provide the back space 450 mm or above as the front.



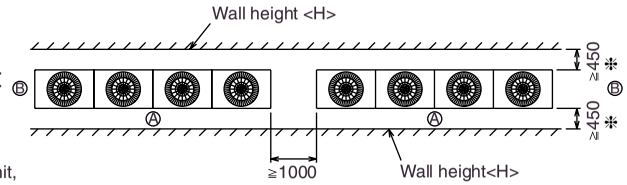
[When inlet air enters from right and left sides of unit]

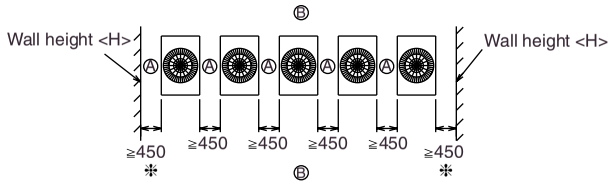
①Wall heights <H> of the front and the back sides shall be within total height of unit.
②When wall height <H> exceeds total height of unit, add <h> dimension to 450 of the following figure.
h=wall height <H'> -total height of unit.

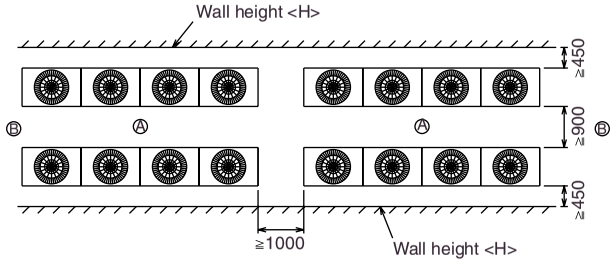


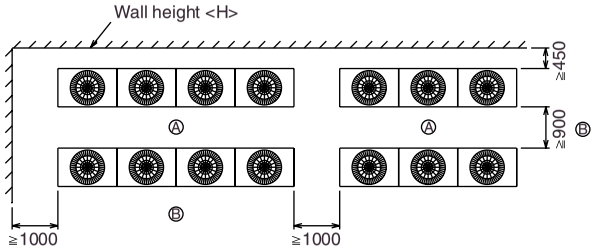
✻ In case of collective installation and continuous installation

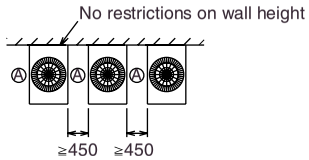
①Space required for collective installation and continuous installation:
When installing several units, provide the space between each block considering passage for air and people.
②Open in two directions.
③In case of wall height <H> exceeds total height of unit, add <h> dimension (h=wall height <H> -total height of unit) to ✻ marked dimension.
④If there is a wall at both the front and the rear of the unit, install up to four units consecutively in the side direction and provide a space of 1000 mm or more as inlet space/passage space for each four units.









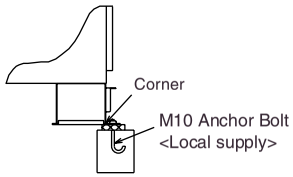


Ⓐ Front
Ⓑ Must be open

(Unit : mm)

2.Foundation work

①When building the foundation, give full attention to the floor strength, drain water disposal <drain water flows out of the unit, during operation>, piping and wiring routes.
②Be sure that the corners are firmly seated. If the corners are not firmly seated, the installation feet may be bent.
③When down piping and down wiring are performed, be sure that foundation and base work does not block the base through holes.



Ref: ygm-W656819 2/2

5. Electrical Wiring Diagram

PUHY-P400YGM-A(-BS)

< Symbol explanation >

Symbol		Name
ACCT1		AC Current Sensor
DCCT1	※3	DC Current Sensor
DCL1		DC reactor (Power factor improvement)
52C1		Magnetic contactor (Inverter main circuit)
MF1		Fan motor (Radiator panel)
CH11		Crank case heater (Compressor)
21S4a	※5	4-way valve
21S4b		
21S4c	※4	
SV1		Solenoid valve (Discharge-suction bypass)
SV5b		Solenoid valve
SV5c	※4	(Heat exchanger capacity control)
LEV1		Electronic expansion valve (SC coil)
TH11	Thermistor	Discharge pipe temp. detect
TH5		Pipe temp.detect (Hex outlet)
TH6		OA temp.detect
TH7		liquid outlet temp.detect at Sub-cool coil
TH8		bypass outlet temp.detect at Sub-cool coil
THHS1		Radiator panel temp. detect
63H1		High pressure switch
63HS		High pressure sensor
63LS		Low pressure sensor
L1,L2		Choke coil (Transmission)
Z20		Function device
⏚		Earth terminal

< Difference of appliance >

Model name	Appliance
PUHY-P200YGM-A	※3" and "※4" do not exsist.
PUHY-P250,P300,P350YGM-A	"※4" do not exsist.
PUHY-P400YGM-A	All exists
PUY-P200YGM-A	"※2" "※3" "※4" and "※5" do not exsist.
PUY-P250,P300,P350YGM-A	"※2" "※4" and "※5" do not exsist.

※1: Function according to switch operation.
(SW4-7,CN3D 1-2P,and CN3D 1-3P)

SW4-7:OFF
(Compressor ON/OFF and NIGHT MODE)

CN3D 1-3P	Compressor ON/OFF	CN3D 1-2P	NIGHT MODE
OPEN	ON	OPEN	OFF
SHORT	OFF	SHORT	ON

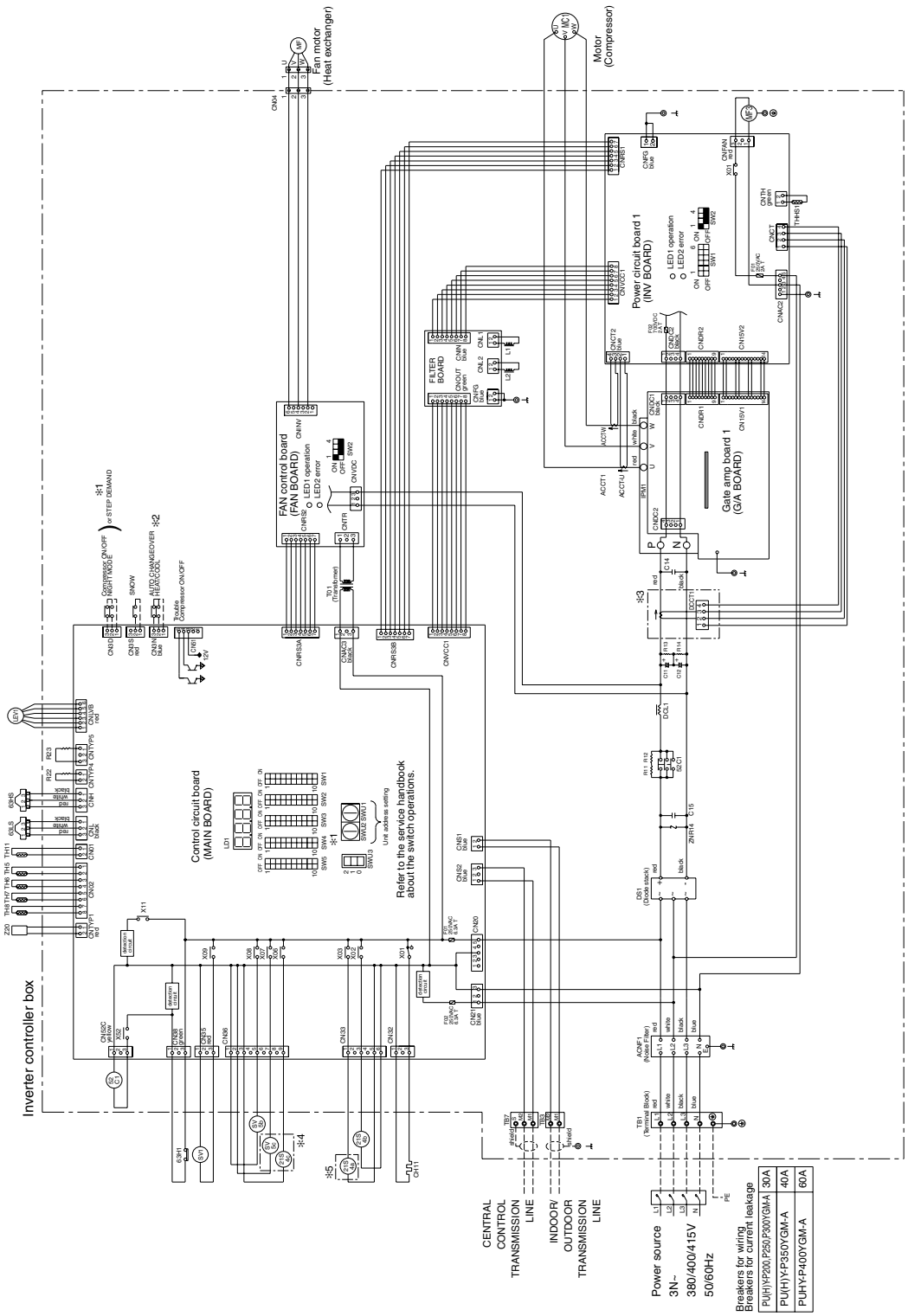
SW4-7:ON (STEP DEMAND)

CN3D 1-2P / CN3D 1-3P	OPEN	SHORT
OPEN	100%	75%
SHORT	0%	50%

※2:Auto changeover (CN3N 1-2P1-3P)

CN3N 1-3P / CN3N 1-2P	OPEN	SHORT
OPEN	Auto changeover:OFF	-
SHORT	Auto changeover:ON	COOL HEAT

NOTE:The broken lines indicate field wiring.

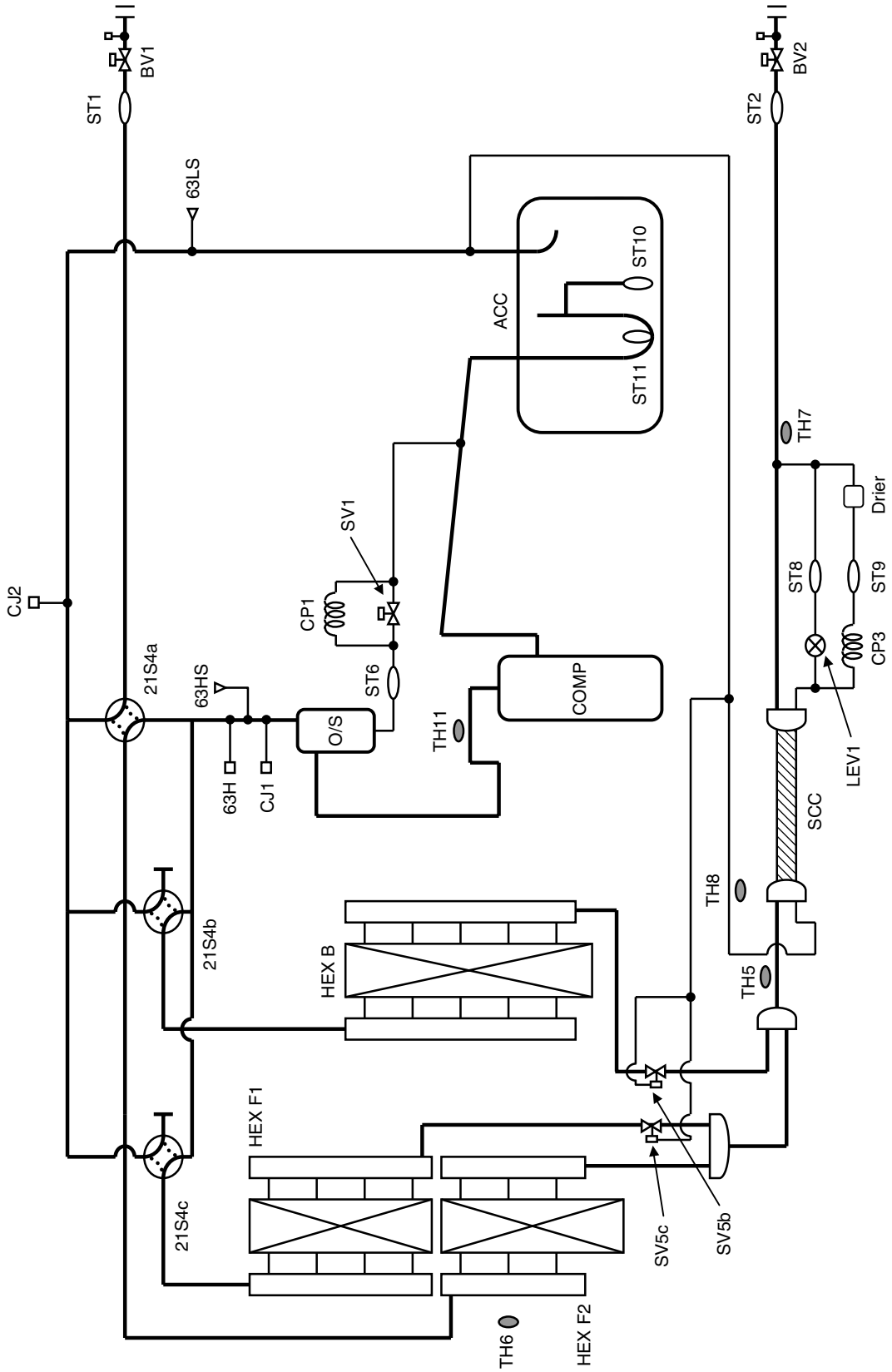


Ref: Y-p200~400ygm-W274627

Y-16(R410A)

6. Refrigerant Circuit Diagram And Thermal Sensor

PUHY-P400YGM-A(-BS)



PUHY-P450·500·550·600·650YGM-A (-BS)

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6. Refrigerant Circuit Diagram And Thermal Sensor Ⅱ-58

1. Specifications

Model name			PUHY-P450YGM-A (-BS)	
			Cooling	Heating
Capacity	*1 †	kW	50.0	56.0
	*1 †	BTU/h	170,600	191,100
	*1 ††	kcal/h	45,000	-
Power source			3N ~ 380/400/415V 50/60Hz	
Power input		kW	13.61	13.86
Current		A	22.9 / 21.8 / 21.0	23.3 / 22.2 / 21.4
Fan	Type x Quantity		Propeller fan x 2	
	Airflow rate	m^3/min	400	
	Motor output	kW	0.38 x 2	
Compressor	Type		Hermetic	
	Motor output	kW	6.8 + 5.3	
	Crankcase heater	kW	0.045 x 2	
Heat exchanger			Salt resistant fin	
Refrigerant / Lubricant			R410A / MEL32	
External finish			Pre-coated galvanized sheets (+ powder coating for –BS type) <MUNSEL 5Y 8/1 or similar>	
External dimension H x W x D		mm	1,840 x 1,990 x 840	
Protection devices	High pressure protection		4.15MPa	
	Compressor		Over current protection / Over heat protection	
	Fan		Thermal switch	
	Inverter		Over current protection / Thermal protection	
Refrigerant piping diameter	High press. pipe		ø15.88 Flare	
	Low press. pipe		ø28.58 Brazed	
Indoor unit	Total capacity		50~130% of outdoor unit capacity	
	Model / Quantity		Model P20~P250 / 1~24	
Noise level	*2	dB<A>	60 / 61	
Net weight		kg	455	
Operating temperature range			Cooling	Heating
			Indoor : 15˚CWB ~ 24˚CWB Outdoor: -5˚CDB ~ 43˚CDB (0˚CDB ~ 43˚CDB, when the outdoor unit is at a lower position)	Indoor : 15˚CDB ~ 27˚CDB Outdoor: -20˚CWB ~ 15.5˚CWB

Note: *1. Cooling/Heating capacity indicates the maximum value at operation under the following condition.

† <Cooling> Indoor : 27˚CDB / 19˚CWB Outdoor : 35˚CDB
<Heating> Indoor : 20˚CDB Outdoor : 7˚CDB / 6˚CWB
Pipe length : 7.5m Height difference : 0m

†† <Cooling> Indoor : 27˚CDB / 19.5˚CWB Outdoor : 35˚CDB
Pipe length : 5m Height difference : 0m

*2. It is measured in anechoic room.

** Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.

Ref.: M-WYNCO-6932&6945

Y-18~26(R410A)

Model name			PUHY-P500YGM-A (-BS)	
			Cooling	Heating
Capacity	*1 †	kW	56.0	63.0
	*1 †	BTU/h	191,100	215,000
	*1 ††	kcal/h	50,000	-
Power source			3N ~ 380/400/415V 50/60Hz	
Power input		kW	15.59	15.89
Current		A	26.3 / 25.0 / 24.0	26.8 / 25.4 / 24.5
Fan	Type x Quantity		Propeller fan x 2	
	Airflow rate	m^3/min	400	
	Motor output	kW	0.38 x 2	
Compressor	Type		Hermetic	
	Motor output	kW	8.2 + 5.3	
	Crankcase heater	kW	0.045 x 2	
Heat exchanger			Salt resistant fin	
Refrigerant / Lubricant			R410A / MEL32	
External finish			Pre-coated galvanized sheets (+ powder coating for –BS type) <MUNSEL 5Y 8/1 or similar>	
External dimension H x W x D		mm	1,840 x 1,990 x 840	
Protection devices	High pressure protection		4.15MPa	
	Compressor		Over current protection / Over heat protection	
	Fan		Thermal switch	
	Inverter		Over current protection / Thermal protection	
Refrigerant piping diameter	High press. pipe		ø15.88 Flare	
	Low press. pipe		ø28.58 Brazed	
Indoor unit	Total capacity		50~130% of outdoor unit capacity	
	Model / Quantity		Model P20~P250 / 1~24	
Noise level	*2	dB<A>	60 / 61	
Net weight		kg	455	
Operating temperature range			Cooling	Heating
			Indoor : 15˚CWB ~ 24˚CWB Outdoor: -5˚CDB ~ 43˚CDB (0˚CDB ~ 43˚CDB, when the outdoor unit is at a lower position)	Indoor : 15˚CDB ~ 27˚CDB Outdoor: -20˚CWB ~ 15.5˚CWB

Note: *1. Cooling/Heating capacity indicates the maximum value at operation under the following condition.

† <Cooling> Indoor : 27˚CDB / 19˚CWB Outdoor : 35˚CDB
<Heating> Indoor : 20˚CDB Outdoor : 7˚CDB / 6˚CWB
Pipe length : 7.5m Height difference : 0m

†† <Cooling> Indoor : 27˚CDB / 19.5˚CWB Outdoor : 35˚CDB
Pipe length : 5m Height difference : 0m

*2. It is measured in anechoic room.

** Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.

Ref.: M-WYNCO-6933&6946

Y-18~26(R410A)

Model name			PUHY-P550YGM-A (-BS)	
			Cooling	Heating
Capacity	*1 †	kW	63.0	67.0
	*1 †	BTU/h	215,000	228,600
	*1 ††	kcal/h	55,000	-
Power source			3N ~ 380/400/415V 50/60Hz	
Power input		kW	17.08	16.37
Current		A	28.8 / 27.3 / 26.4	27.6 / 26.2 / 25.3
Fan	Type x Quantity		Propeller fan x 2	
	Airflow rate	m^3/min	400	
	Motor output	kW	0.38 x 2	
Compressor	Type		Hermetic	
	Motor output	kW	9.3 + 5.3	
	Crankcase heater	kW	0.045 x 2	
Heat exchanger			Salt resistant fin	
Refrigerant / Lubricant			R410A / MEL32	
External finish			Pre-coated galvanized sheets (+ powder coating for –BS type) <MUNSEL 5Y 8/1 or similar>	
External dimension H x W x D		mm	1,840 x 1,990 x 840	
Protection devices	High pressure protection		4.15MPa	
	Compressor		Over current protection / Over heat protection	
	Fan		Thermal switch	
	Inverter		Over current protection / Thermal protection	
Refrigerant piping diameter	High press. pipe		ϕ15.88 Flare	
	Low press. pipe		ϕ28.58 Brazed	
Indoor unit	Total capacity		50~130% of outdoor unit capacity	
	Model / Quantity		Model P20~P250 / 1~24	
Noise level	*2	dB<A>	61 / 62	
Net weight		kg	455	
Operating temperature range			Cooling	Heating
			Indoor : 15˚CWB ~ 24˚CWB Outdoor: -5˚CDB ~ 43˚CDB (0˚CDB ~ 43˚CDB, when the outdoor unit is at a lower position)	Indoor : 15˚CDB ~ 27˚CDB Outdoor: -20˚CWB ~ 15.5˚CWB

Note: *1. Cooling/Heating capacity indicates the maximum value at operation under the following condition.

† <Cooling> Indoor : 27˚CDB / 19˚CWB Outdoor : 35˚CDB
<Heating> Indoor : 20˚CDB Outdoor : 7˚CDB / 6˚CWB
Pipe length : 7.5m Height difference : 0m

†† <Cooling> Indoor : 27˚CDB / 19.5˚CWB Outdoor : 35˚CDB
Pipe length : 5m Height difference : 0m

*2. It is measured in anechoic room.

** Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.

Ref.: M-WYNCO-6934&6947

Model name			PUHY-P600YGM-A (-BS)	
			Cooling	Heating
Capacity	*1 †	kW	67.4	75.0
	*1 †	BTU/h	229,900	255,900
	*1 ††	kcal/h	60,000	-
Power source			3N ~ 380/400/415V 50/60Hz	
Power input		kW	17.59	17.73
Current		A	29.6 / 28.2 / 27.1	29.9 / 28.4 / 27.4
Fan	Type x Quantity		Propeller fan x 2	
	Airflow rate	m^3/min	400	
	Motor output	kW	0.38 x 2	
Compressor	Type		Hermetic	
	Motor output	kW	10.1 + 5.3	
	Crankcase heater	kW	0.045 x 2	
Heat exchanger			Salt resistant fin	
Refrigerant / Lubricant			R410A / MEL32	
External finish			Pre-coated galvanized sheets (+ powder coating for –BS type) <MUNSEL 5Y 8/1 or similar>	
External dimension H x W x D		mm	1,840 x 1,990 x 840	
Protection devices	High pressure protection		4.15MPa	
	Compressor		Over current protection / Over heat protection	
	Fan		Thermal switch	
	Inverter		Over current protection / Thermal protection	
Refrigerant piping diameter	High press. pipe		ø15.88 Flare	
	Low press. pipe		ø28.58 Brazed	
Indoor unit	Total capacity		50~130% of outdoor unit capacity	
	Model / Quantity		Model P20~P250 / 1~32	
Noise level *2		dB<A>	61 / 62	
Net weight		kg	455	
			Cooling	Heating
Operating temperature range			Indoor : 15˚CWB ~ 24˚CWB Outdoor: -5˚CDB ~ 43˚CDB (0˚CDB ~ 43˚CDB, when the outdoor unit is at a lower position)	Indoor : 15˚CDB ~ 27˚CDB Outdoor: -20˚CWB ~ 15.5˚CWB

Note: *1. Cooling/Heating capacity indicates the maximum value at operation under the following condition.

† <Cooling> Indoor : 27˚CDB / 19˚CWB Outdoor : 35˚CDB
<Heating> Indoor : 20˚CDB Outdoor : 7˚CDB / 6˚CWB
Pipe length : 7.5m Height difference : 0m

†† <Cooling> Indoor : 27˚CDB / 19.5˚CWB Outdoor : 35˚CDB
Pipe length : 5m Height difference : 0m

*2. It is measured in anechoic room.

** Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.

Ref.: M-WYNCO-6934&6947

Y-18~26(R410A)

Model name			PUHY-P650YGM-A (-BS)	
			Cooling	Heating
Capacity	*1 †	kW	73.0	81.5
	*1 †	BTU/h	249,000	278,000
	*1 ††	kcal/h	65,000	-
Power source			3N ~ 380/400/415V 50/60Hz	
Power input		kW	19.65	19.82
Current		A	33.1 / 31.5 / 30.3	33.4 / 31.7 / 30.6
Fan	Type x Quantity		Propeller fan x 2	
	Airflow rate	m^3/min	400	
	Motor output	kW	0.38 x 2	
Compressor	Type		Hermetic	
	Motor output	kW	10.9 + 5.3	
	Crankcase heater	kW	0.045 x 2	
Heat exchanger			Salt resistant fin	
Refrigerant / Lubricant			R410A / MEL32	
External finish			Pre-coated galvanized sheets (+ powder coating for –BS type) <MUNSEL 5Y 8/1 or similar>	
External dimension H x W x D		mm	1,840 x 1,990 x 840	
Protection devices	High pressure protection		4.15MPa	
	Compressor		Over current protection / Over heat protection	
	Fan		Thermal switch	
	Inverter		Over current protection / Thermal protection	
Refrigerant piping diameter	High press. pipe		ϕ15.88 Flare	
	Low press. pipe		ϕ28.58 Brazed	
Indoor unit	Total capacity		50~130% of outdoor unit capacity	
	Model / Quantity		Model P20~P250 / 1~32	
Noise level	*2	dB<A>	62 / 62.5	
Net weight		kg	455	
Operating temperature range			Cooling	Heating
			Indoor : 15˚CWB ~ 24˚CWB Outdoor: -5˚CDB ~ 43˚CDB (0˚CDB ~ 43˚CDB, when the outdoor unit is at a lower position)	Indoor : 15˚CDB ~ 27˚CDB Outdoor: -20˚CWB ~ 15.5˚CWB

Note: *1. Cooling/Heating capacity indicates the maximum value at operation under the following condition.

† <Cooling> Indoor : 27˚CDB / 19˚CWB Outdoor : 35˚CDB
<Heating> Indoor : 20˚CDB Outdoor : 7˚CDB / 6˚CWB
Pipe length : 7.5m Height difference : 0m

†† <Cooling> Indoor : 27˚CDB / 19.5˚CWB Outdoor : 35˚CDB
Pipe length : 5m Height difference : 0m

*2. It is measured in anechoic room.

** Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.

Ref.: M-WYNCO-6936&6949

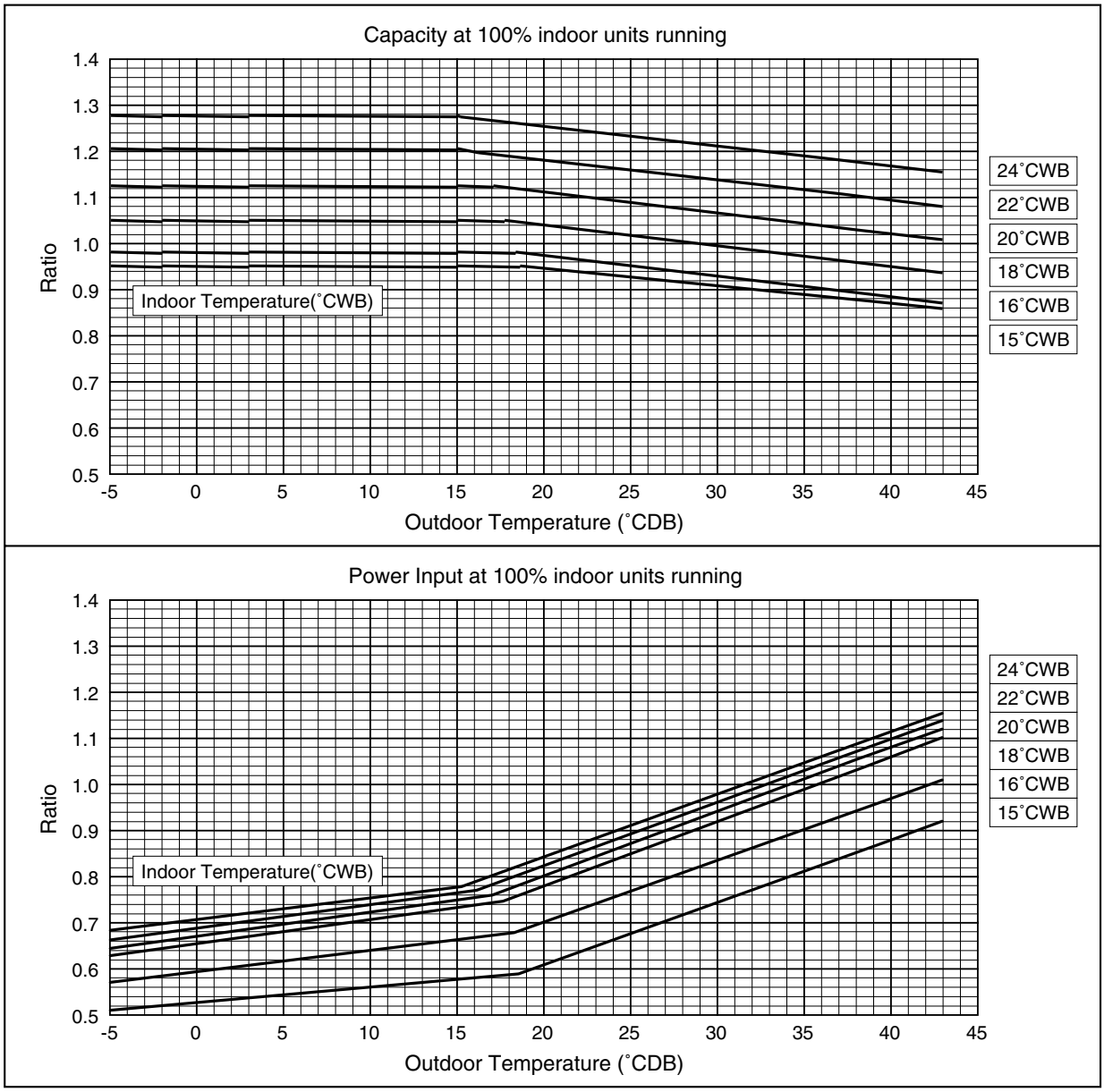
2. Capacity Table

2-1. Correction by temperature

Cooling

• Standard Specifications

		PUHY-P450YGM	PUHY-P500YGM	PUHY-P550YGM	PUHY-P600YGM	PUHY-P650YGM
Capacity	kW	50.0	56.0	63.0	67.4	73.0
Input	kW	13.61	15.59	17.08	17.59	19.65

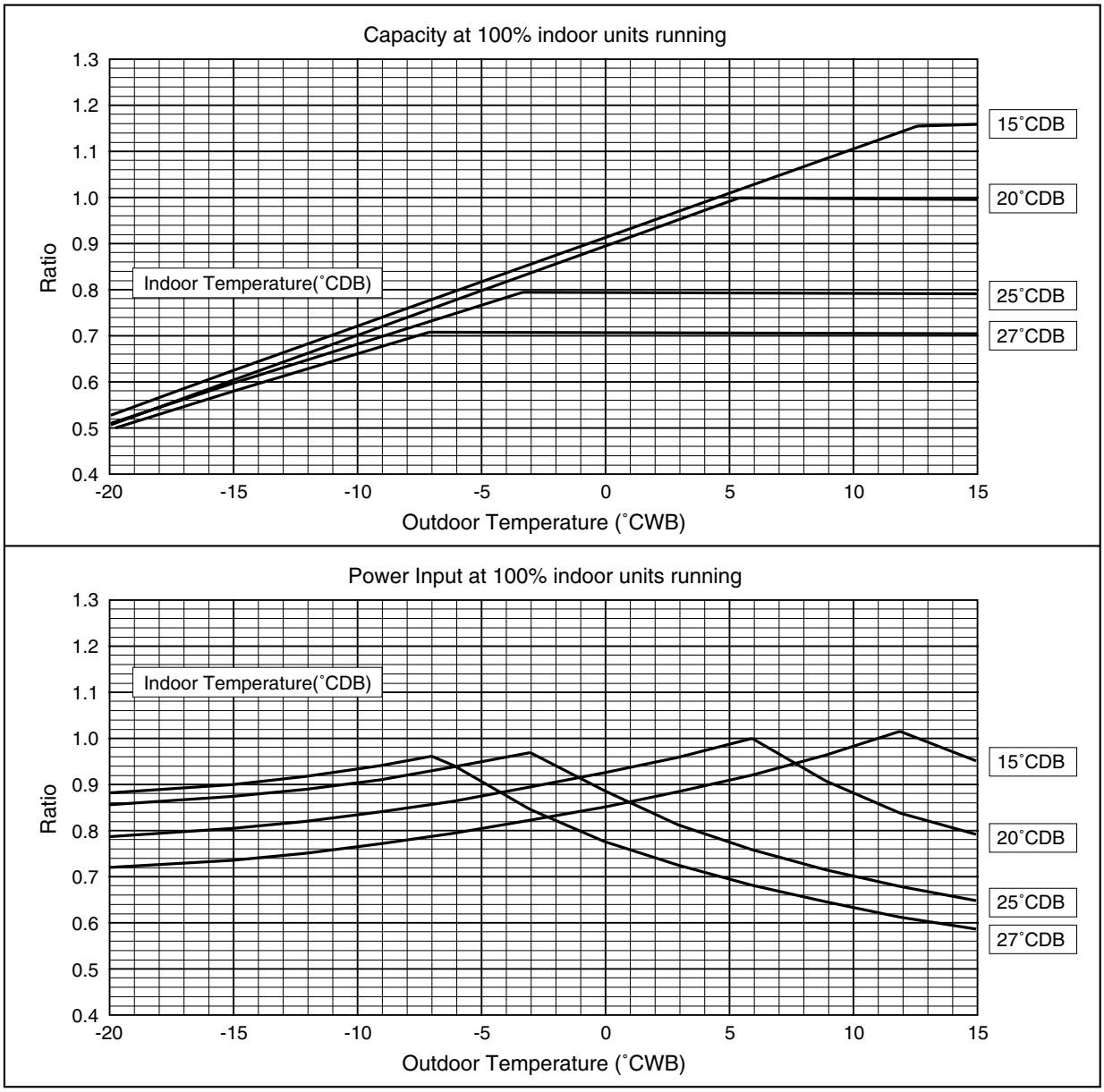


Ref: cap&inpc-p450-650

Heating

• Standard Specifications

		PUHY-P450YGM	PUHY-P500YGM	PUHY-P550YGM	PUHY-P600YGM	PUHY-P650YGM
Capacity	kW	56.0	63.0	67.0	75.0	81.5
Input	kW	13.86	15.89	16.37	17.73	19.82

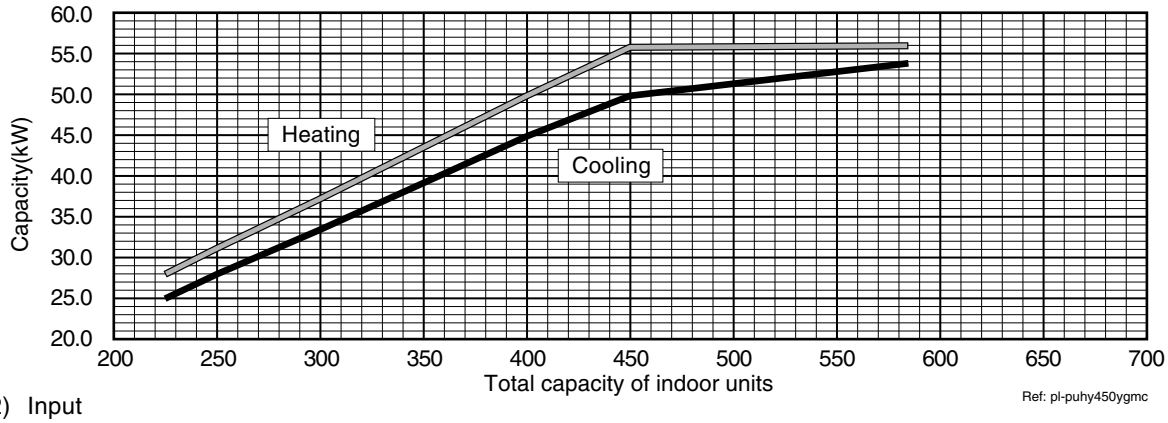


Ref: cap&inph-p450-650

2-2. Correction by total indoor

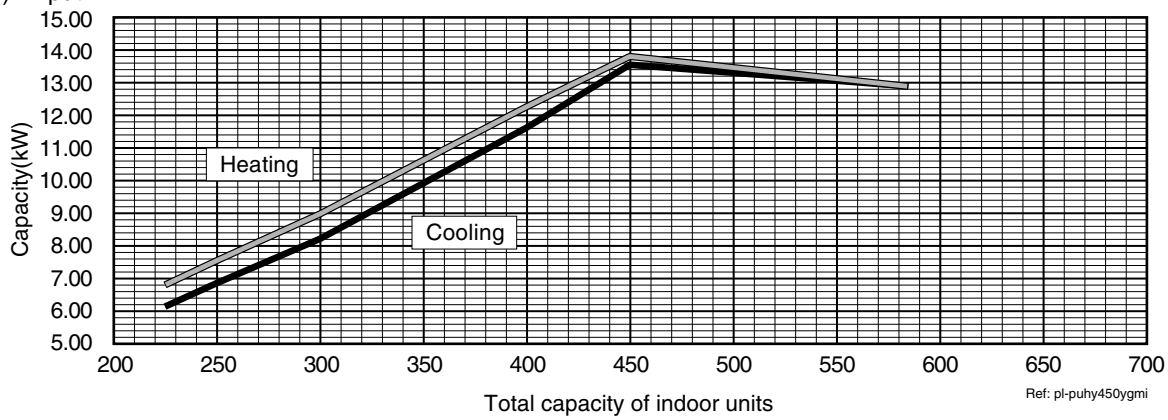
PUHY-P450YGM

1) Capacity



Ref: pl-puhy450ygmc

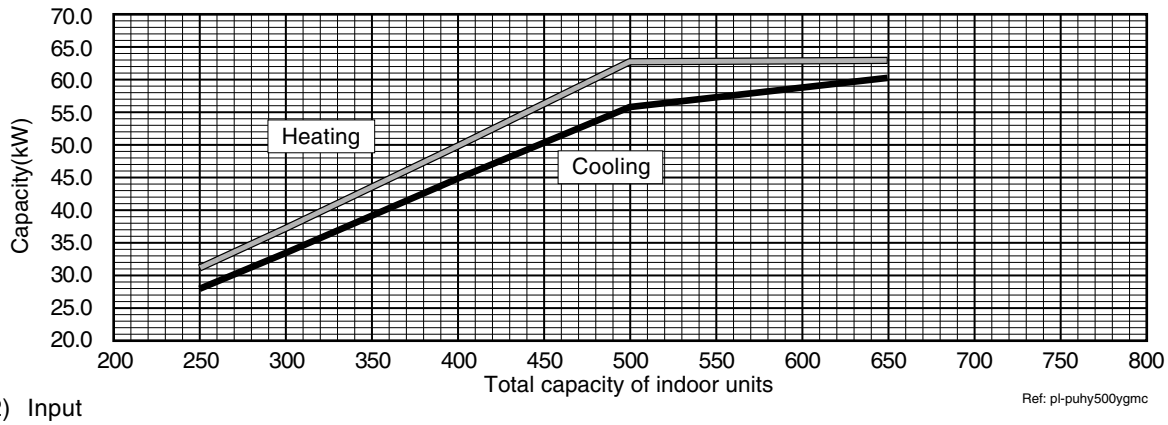
2) Input



Ref: pl-puhy450ygmi

PUHY-P500YGM

1) Capacity



Ref: pl-puhy500ygmc

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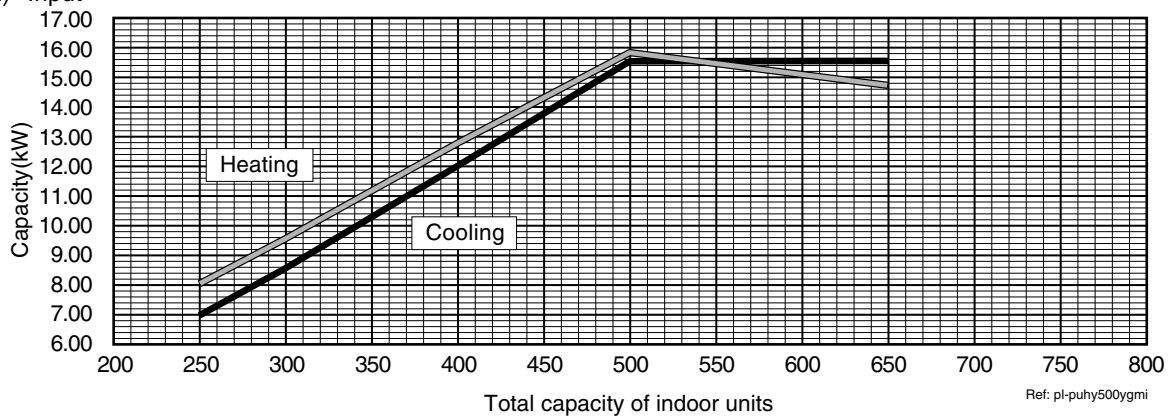
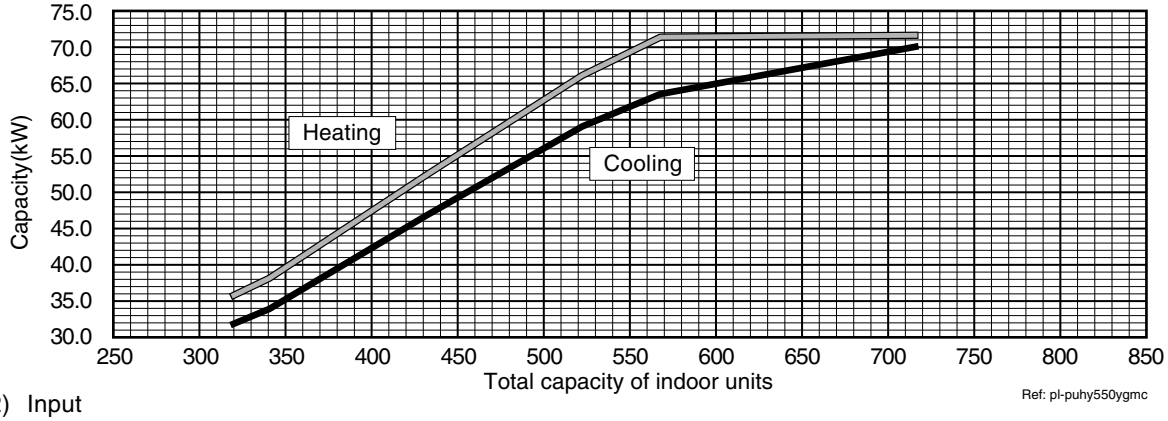


Ref: pl-puhy500ygmi

PUHY-P550YGM

1) Capacity



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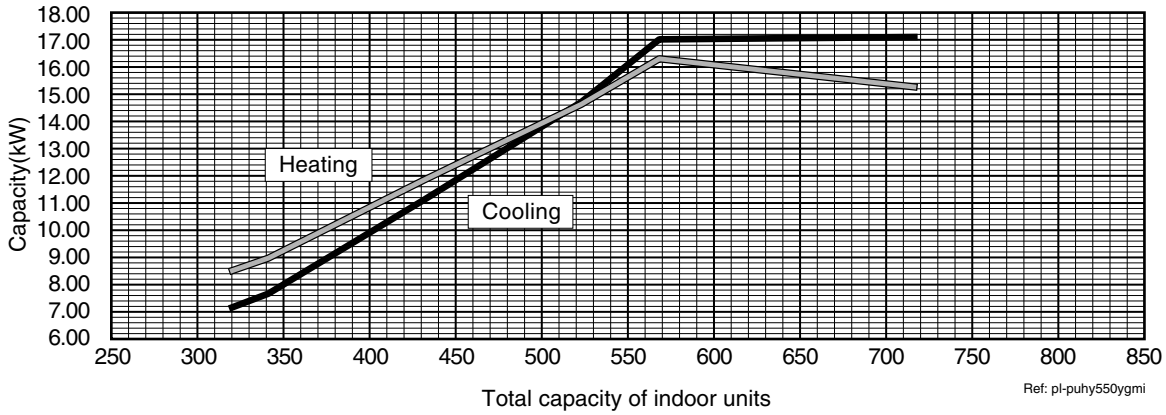
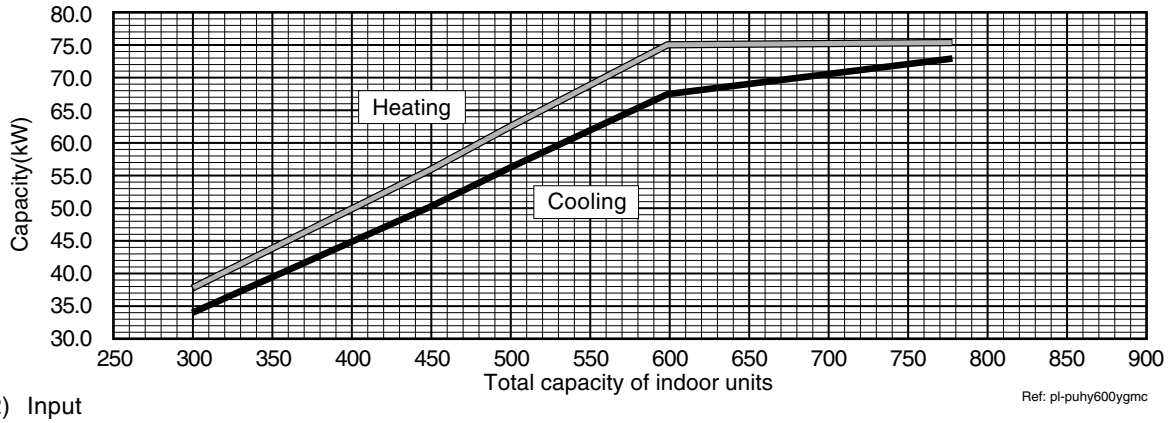
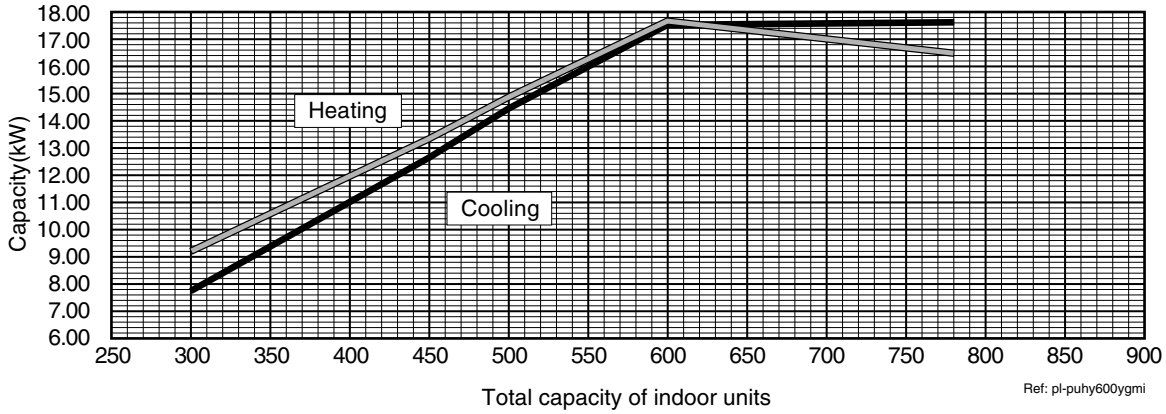


PUHY-P600YGM

1) Capacity

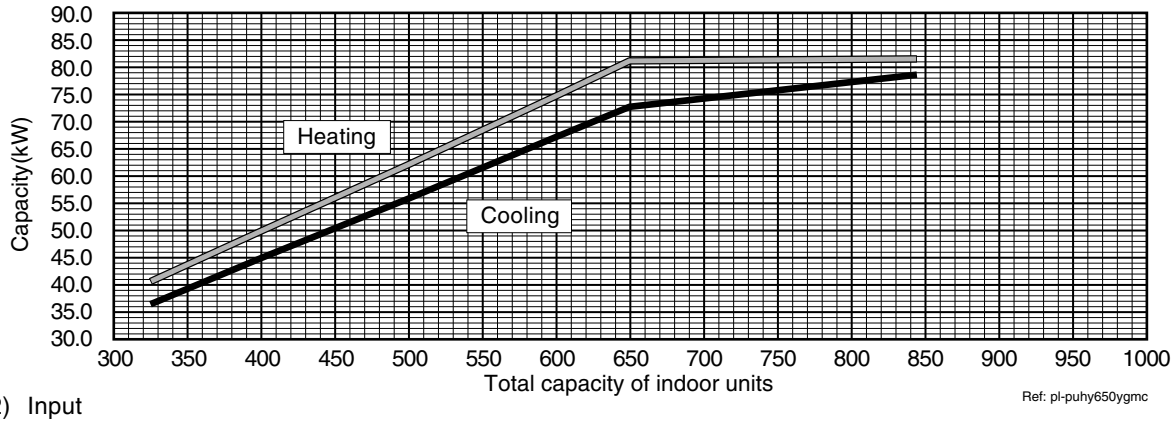


2) Input



PUHY-P650YGM

1) Capacity



Ref: pl-puhy650ygmc

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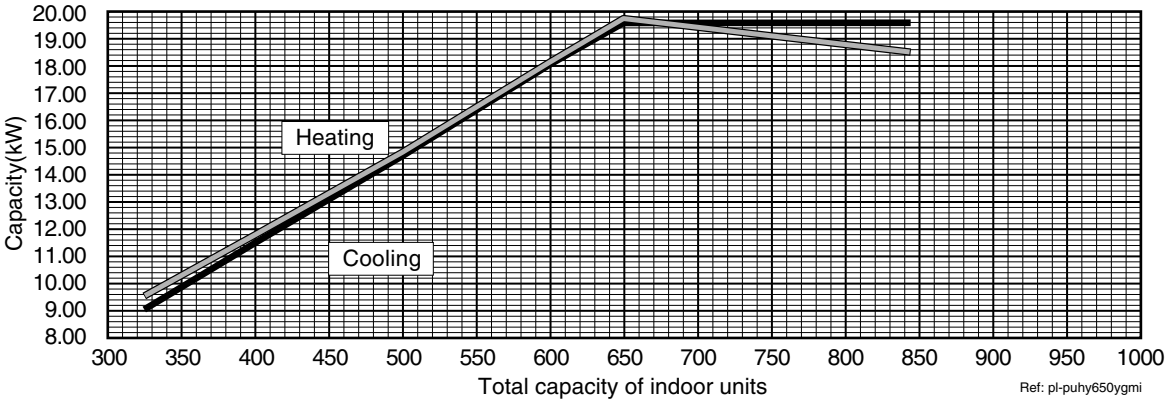


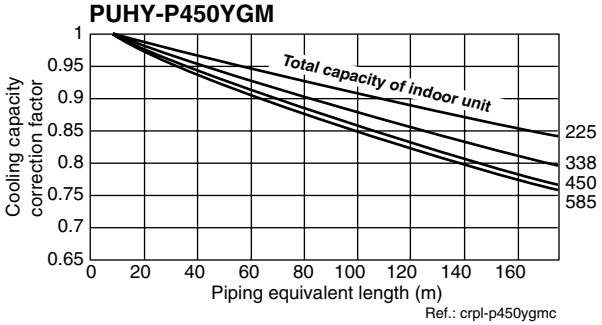
Ref: pl-puhy650ygmi

2-3. Correction by refrigerant piping length

Due to the extension of refrigerant piping, a decrease of cooling/heating capacity happens. The actual capacity is considered by multiplying the correction factor according to the equivalent length of the refrigerant piping shown at the table below.

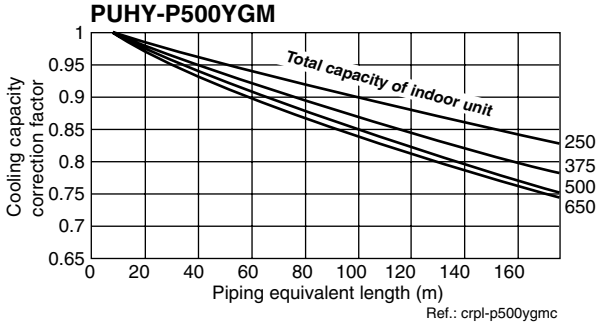
• Cooling capacity correction

PUHY-P450YGM



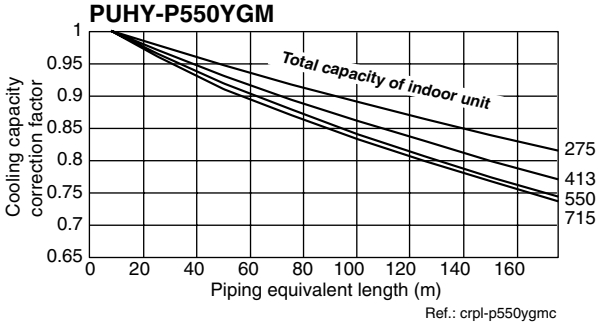
Ref.: crpl-p450ygmc

PUHY-P500YGM



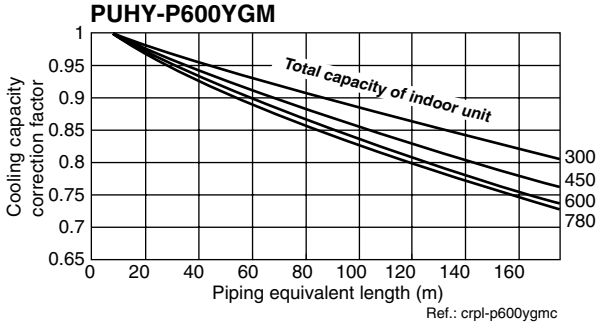
Ref.: crpl-p500ygmc

PUHY-P550YGM



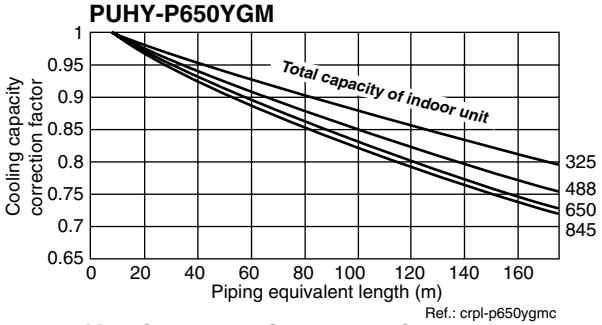
Ref.: crpl-p550ygmc

PUHY-P600YGM



Ref.: crpl-p600ygmc

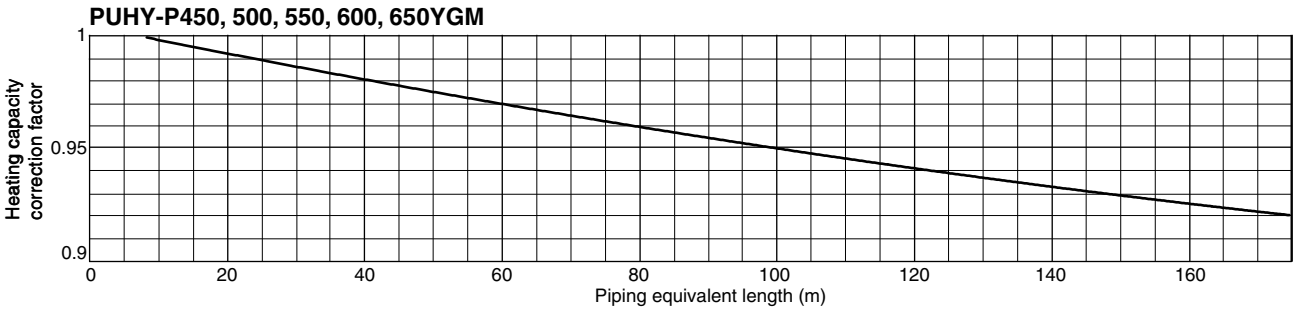
PUHY-P650YGM



Ref.: crpl-p650ygmc

• Heating capacity correction

PUHY-P450, 500, 550, 600, 650YGM



Ref.: h450-650ygm-MEE03W211(P89)

• How to obtain piping equivalent length

1 **PU(H)Y, PURY-P200YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.35 x number of bent on the piping) m

2 **PU(H)Y, PURY-P250,300YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.42 x number of bent on the piping) m

3 **PU(H)Y, PURY-P350YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.47 x number of bent on the piping) m

4 **PUHY, PURY-P400,450,500,550,600,650YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.50 x number of bent on the piping) m

5 **PUHY-P700,750,800YSGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.70 x number of bent on the piping) m

2-4. Correction at frosting and defrosting

Due to frosting at the outdoor heat exchanger and the automatical defrosting operation, the heating capacity of the outdoor unit should be considered by multiplying the correction factor which shown in the table below.

Table of correction factor

PUHY-P450, 500YGM

Outdoor inlet air temp (˚CWB)	6	4	2	1	0	-2	-4	-6	-8	-10	-20
Correction factor	1.0	0.98	0.89	0.86	0.89	0.90	0.92	0.95	0.95	0.95	0.95

Ref.: def-ygmp450-500

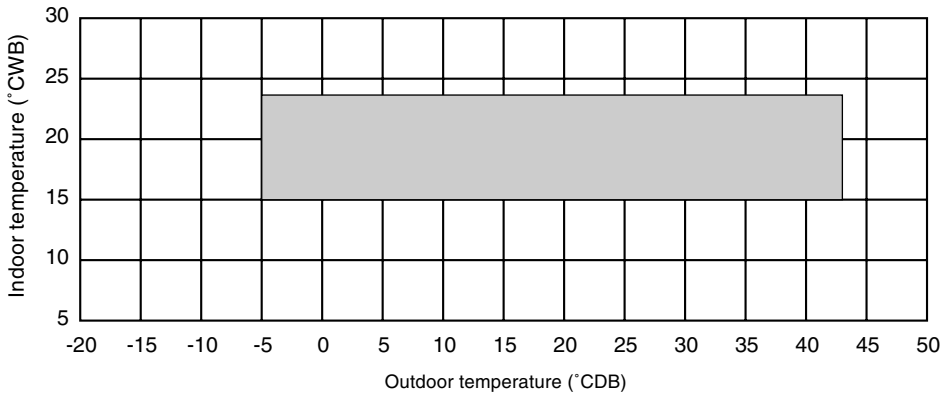
PUHY-P550, 600YGM

Outdoor inlet air temp (˚CWB)	6	4	2	1	0	-2	-4	-6	-8	-10	-20
Correction factor	1.0	0.94	0.87	0.86	0.87	0.88	0.90	0.90	0.93	0.93	0.93

Ref.: def-ygmp550-600

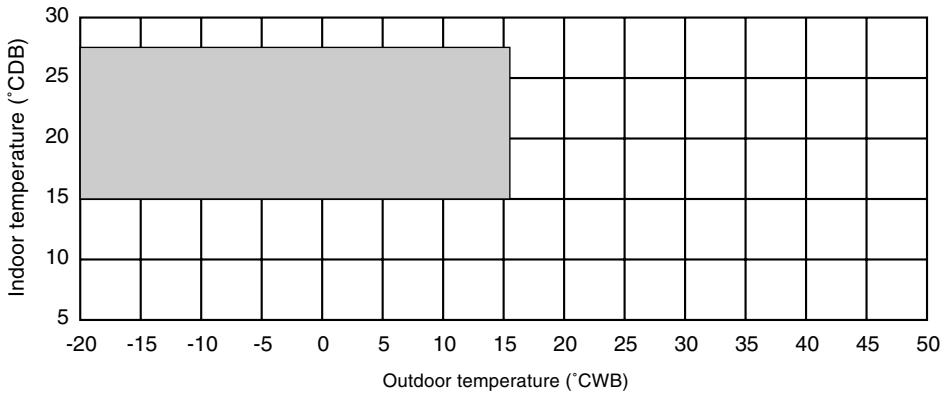
2-5. Operation limit

• Cooling



* The operation temperature of outdoor unit is limited into 0~43˚CDB when the outdoor unit is at a postion lower than the indoor units.

• Heating

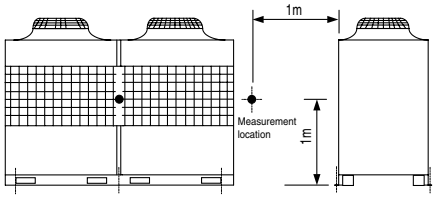


Ref.: ol-ygmhp

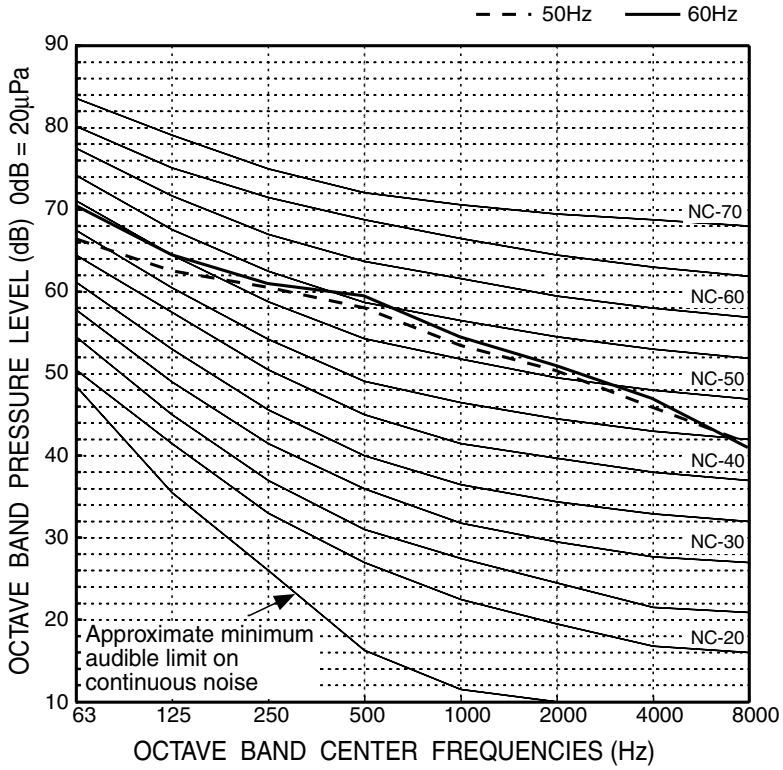
3. Sound Levels

PUHY-P450YGM

Measurement condition



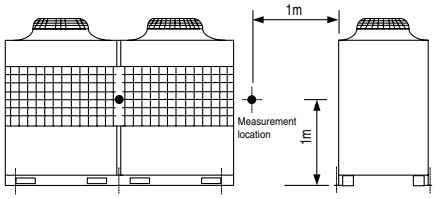
	63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	dB(A)
50Hz	66.5	62.5	60.5	58	53.5	50.5	46	41.5	60
60Hz	70.5	64.5	61	59.5	54.5	51	47	41	61



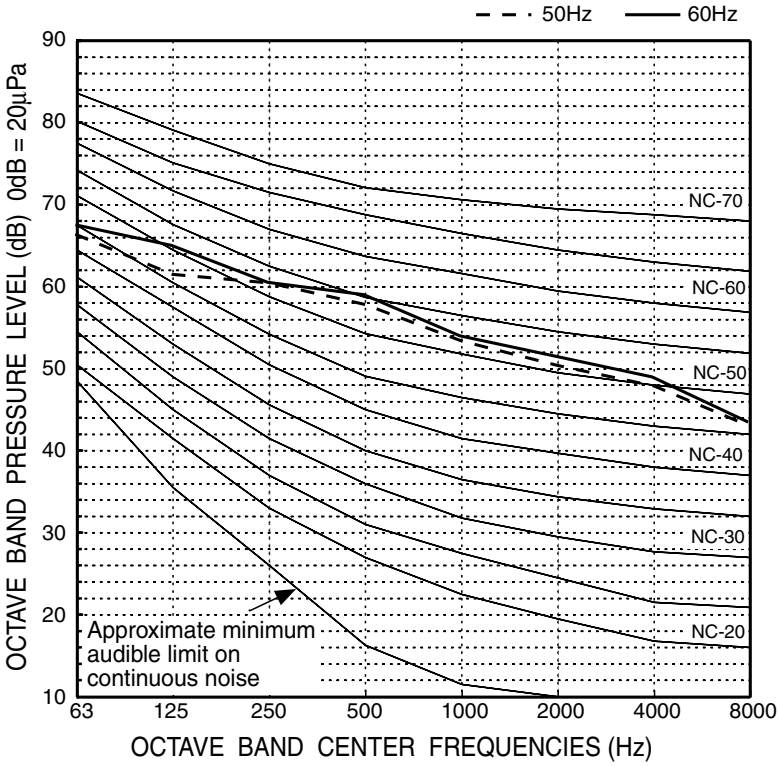
Ref.: h450ygm-WYNB0-3276

PUHY-P500YGM

Measurement condition



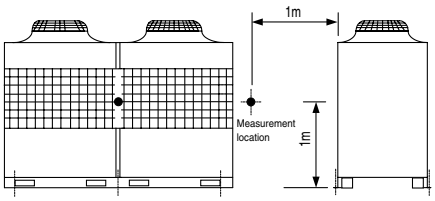
	63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	dB(A)
50Hz	67	61.5	60.5	58	53.5	50.5	48	43	60
60Hz	68	65	60.5	59	54	51.5	49	43.5	61



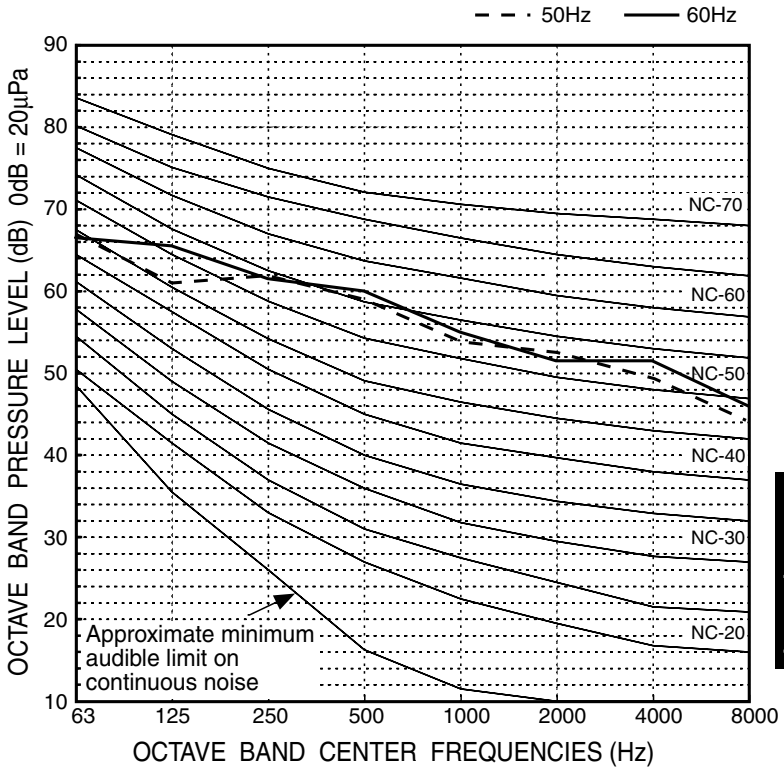
Ref.: h500ygm-WYNB0-3277

PUHY-P550YGM

Measurement condition



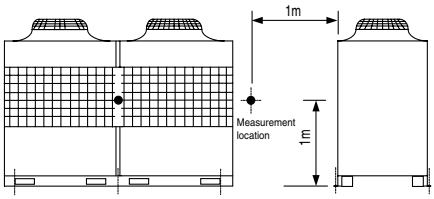
	63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	dB(A)
50Hz	67	61	62	59	54	52.5	49.5	44	61
60Hz	66.5	65.5	61.5	60	55	51.5	51.5	46	62



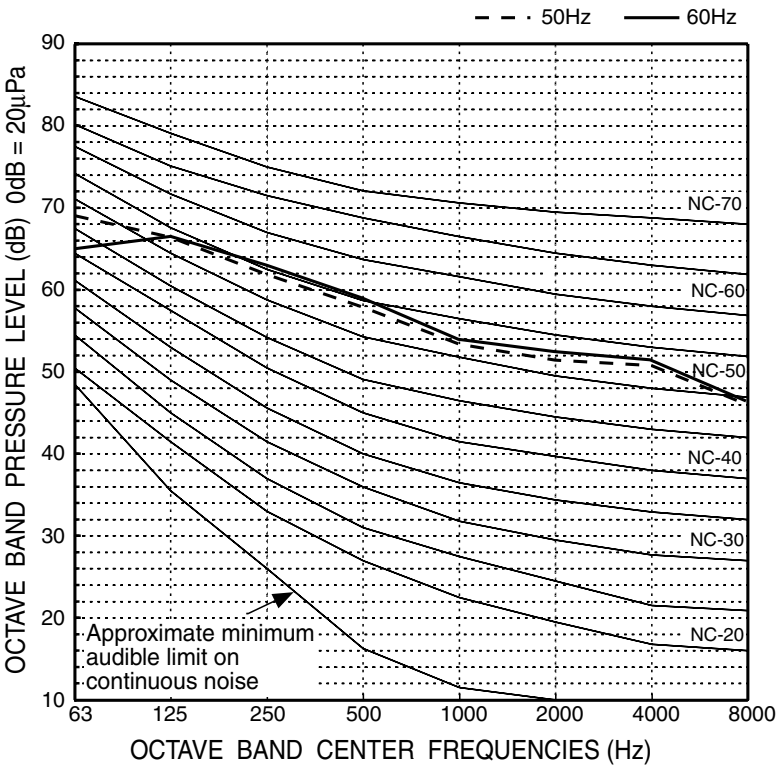
Ref.: h550ygm-WYNB0-3278

PUHY-P600YGM

Measurement condition



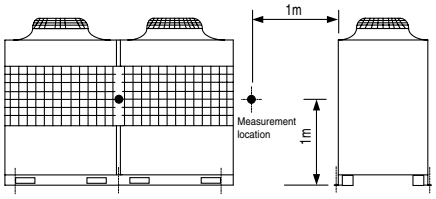
	63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	dB(A)
50Hz	69	66.5	62	58	53.5	51.5	51	46	61
60Hz	65	66.5	63	59	54	52.5	51.5	46.5	62



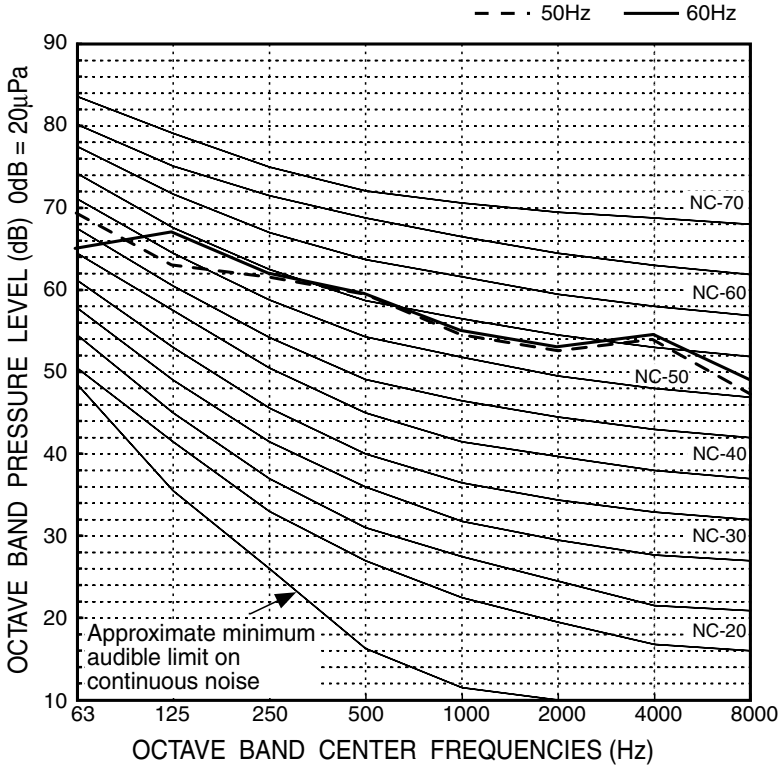
Ref.: h600ygm-WYNB0-3279

PUHY-P650YGM

Measurement condition



	63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	dB(A)
50Hz	69.5	63	61.5	59.5	54.5	52.5	54	47	62
60Hz	65	67	62	59.5	55	53	54.5	49	62.5

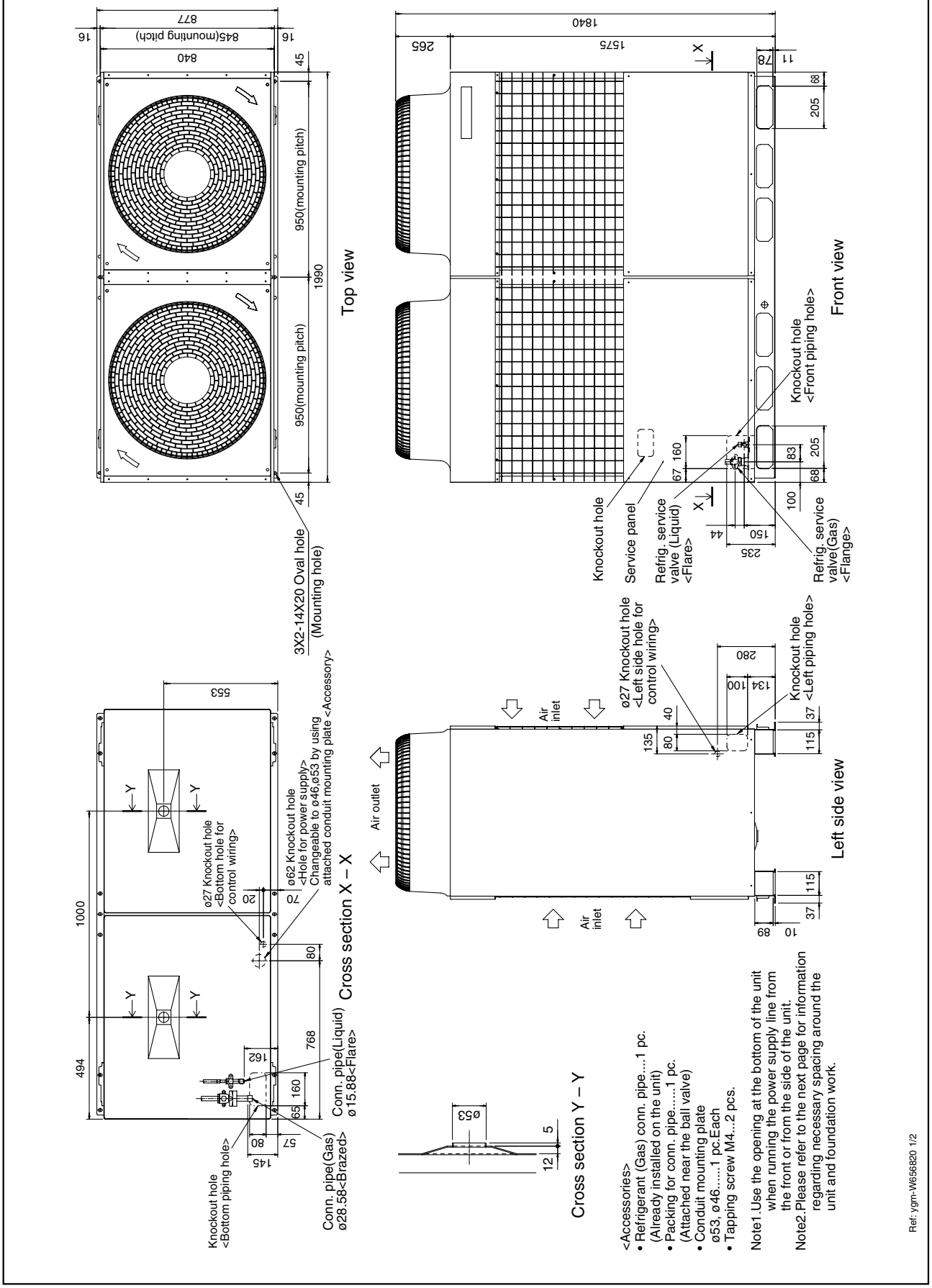


Ref.: h650ygm-WYNB0-3280

4. External Dimensions

PUHY-P450,500,550,600,650YGM-A(-BS)

Unit : mm

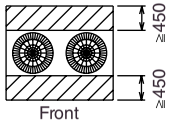


Spacing of PUHY-P450,500,550,600,650YGM-A(-BS)

1.Space required around unit

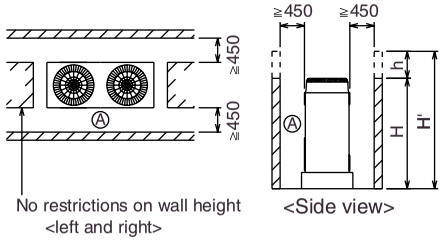
✻ In case of single installation [Basic rules for spacing the unit]

①Since the service from the back of unit is required, provide the back space 450 mm or above as the front.



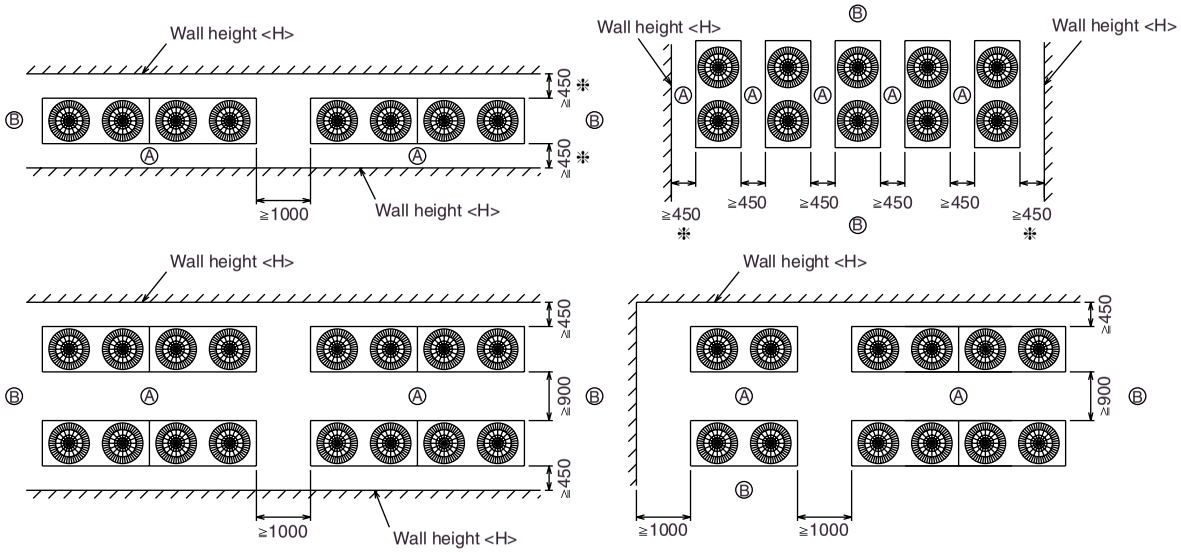
[When inlet air enters from right and left sides of unit]

①Wall heights <H> of the front and the back sides shall be within total height of unit.
②When wall height <H> exceeds total height of unit, add <h> dimension to 450 of the following figure.
h=wall height <H> -total height of unit.



✻ In case of collective installation and continuous installation

①Space required for collective installation and continuous installation:
When installing several units, provide the space between each block considering passage for air and people.
②Open in two directions.
③In case of wall height <H> exceeds total height of unit,add <h> dimension
(h=wall height <H> -total height of unit) to ✻ marked dimension.
④If there is a wall at both the front and the rear of the unit, install up to three units consecutively in
the side direction and provide a space of 1000 mm or more as inlet space/passage space for each three units.

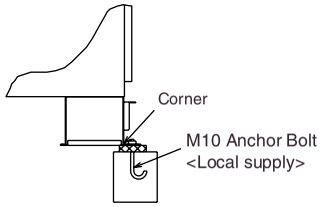


Ⓐ Front
Ⓑ Must be open

(Unit : mm)

2.Foundation work

①When building the foundation, give full attention to the floor strength, drain water disposal <drain water flows out of the unit, during operation>, piping and wiring routes.
②Be sure that the corners are firmly seated.If the corners are not firmly seated, the installation feet may be bent.
③When down piping and down wiring are performed, be sure that foundation and base work does not block the base through holes.



Ref: ygm-W656820 2/2

5. Electrical Wiring Diagram

PUHY-P450, 500, 550, 600, 650YGM-A(-BS)

< Symbol explanation >

Symbol	Name
ACCT1	AC Current Sensor
DCCT1	DC Current Sensor
DCL1	DC reactor (Power factor improvement)
52C1	Magnetic contactor (Inverter main circuit)
52C2	Magnetic contactor (No.2 Compressor)
51C2	Overload relay (No.2 Compressor)
52F	Magnetic contactor (Fan motor)
MF3	Fan motor (Radiator panel)
CH11,12	Crank case heater (Compressor)
21S4a,b,c	4-way valve
SV1,3	Solenoid valve (Discharge-suction bypass)
SV5b,c	Solenoid valve (Heat exchanger capacity control)
LEV1	Electronic expansion valve (SC coil)
TH11,12	Thermistor: Discharge pipe temp. detect
TH5	Thermistor: Pipe temp.detect (Hex outlet)
TH6	Thermistor: OA temp.detect
TH7	Thermistor: liquid outlet temp.detect at Sub-cool coil
TH8	Thermistor: bypass outlet temp.detect at Sub-cool coil
THHS1	Thermistor: Radiator panel temp. detect
63H1,2	High pressure switch
63HS	High pressure sensor
63LS	Low pressure sensor
L1,L2	Choke coil (Transmission)
Z20	Function device
⏚	Earth terminal

※1: Function according to switch operation.
(SW4-7:CN3D 1-2P,and CN3D 1-3P)
SW4-7:OFF (Compressor ON/OFF and NIGHT MODE)

CN3D 1-3P	Compressor ON/OFF
OPEN	ON
SHORT	OFF

CN3D 1-2P	NIGHT MODE
OPEN	OFF
SHORT	ON

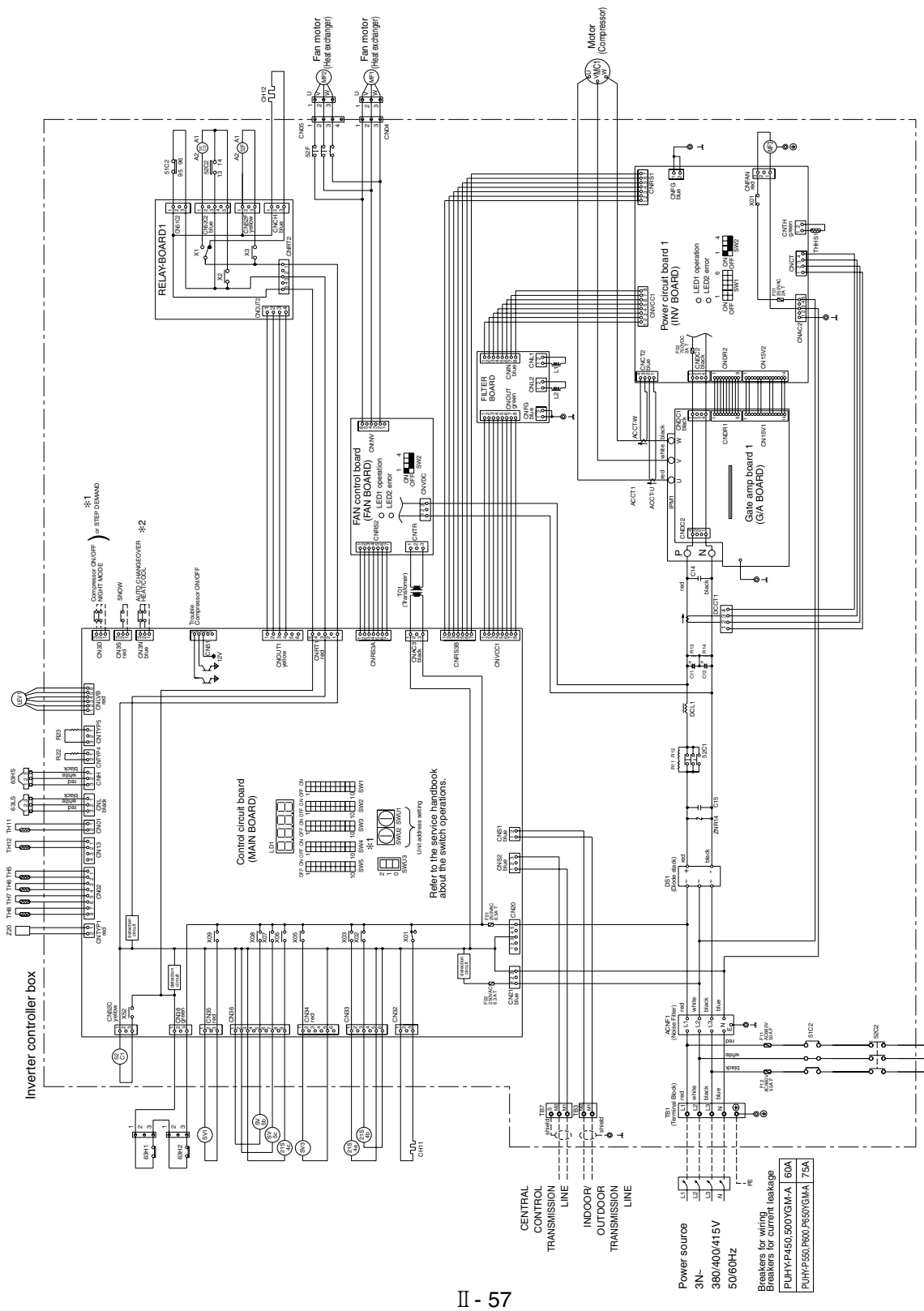
SW4-7:ON (STEP DEMAND)

CN3D 1-2P / CN3D 1-3P	OPEN	SHORT
OPEN	100%	75%
SHORT	0%	50%

※2:Auto changeover (CN3N 1-2P,1-3P)

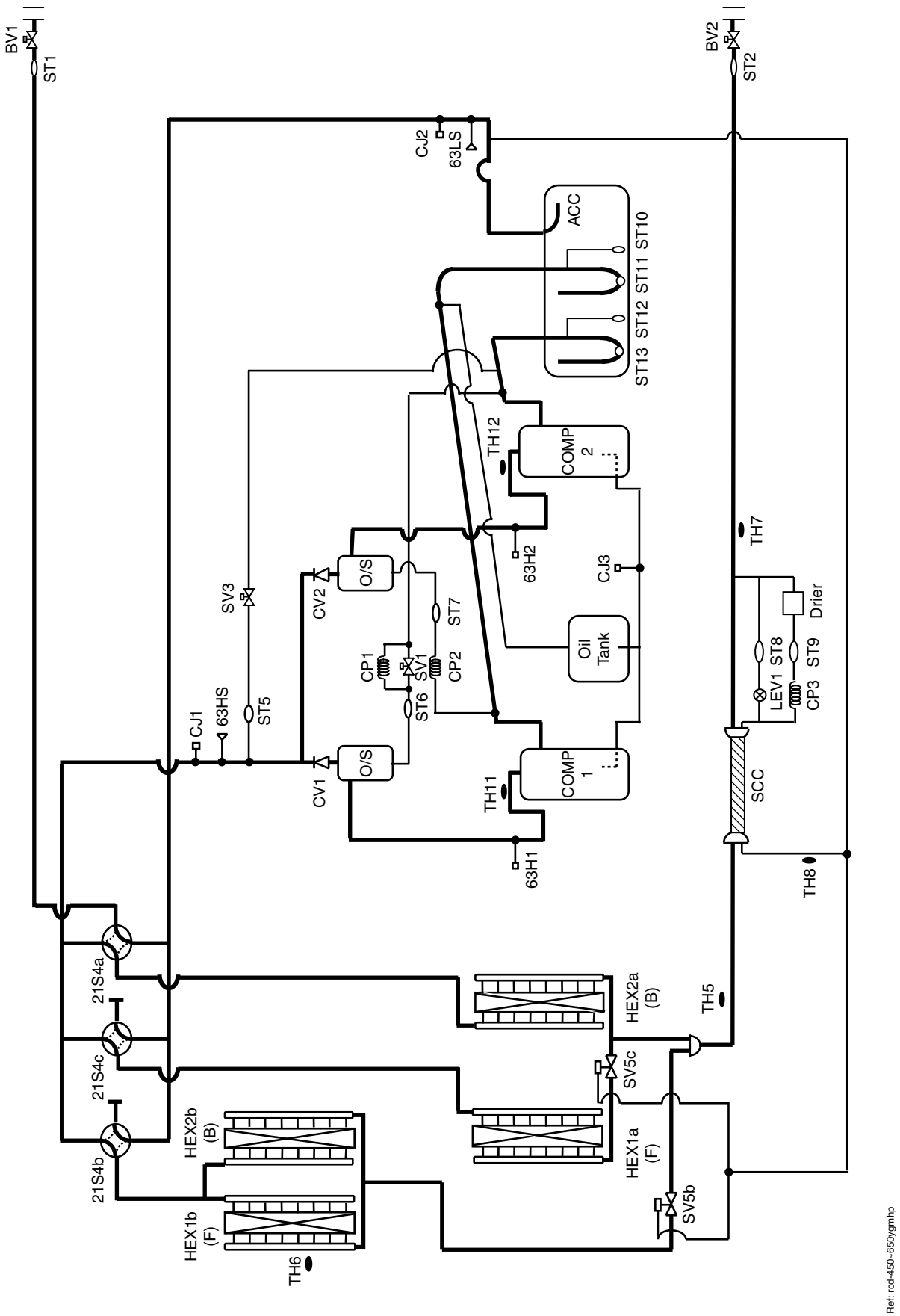
CN3N 1-2P / CN3N 1-3P	OPEN	SHORT
OPEN	-	-
SHORT	COOL	HEAT

NOTE:The broken lines indicate field wiring.



6. Refrigerant Circuit Diagram And Thermal Sensor

PUHY-P450, 500, 550, 600, 650YGM-A(-BS)



PUHY-P700·750·800YSGM-A (-BS)

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   - 2-1 Correction by temperature Ⅱ-63
   - 2-2 Correction by total indoor Ⅱ-65
   - 2-3 Correction by refrigerant piping length Ⅱ-67
   - 2-4 Correction at frosting and defrosting Ⅱ-68
   - 2-5 Operation limit Ⅱ-68

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6. Refrigerant Circuit Diagram And Thermal Sensor Ⅱ-76

1. Specifications

Model name			PUHY-P700YSGM-A (-BS)	
			Cooling	Heating
Capacity	*1 †	kW	78.4	88.0
	*1 †	BTU/h	267,500	300,200
	*1 ††	kcal/h	70,000	-
Power source			3N ~ 380/400/415V 50/60Hz	
Power input		kW	21.70	21.83
Current		A	36.6 / 34.8 / 33.5	36.8 / 35.0 / 33.7
Refrigerant piping diameter Liquid/Gas			ϕ19.05 Flare / ϕ34.93 Flare	
Indoor unit	Total capacity		50~130% of outdoor unit capacity	
	Model / Quantity		Model P20~P250 / 1~34	
Noise level	*2	dB<A>	62 / 62	

❊The above unit is a combination of **PUHY-P700YGM-A(-BS)** and **PUHN-P01YGM-A(-BS)**

Model name			PUHY-P700YGM-A (-BS)	PUHN-P01YGM-A (-BS)
Fan	Type x Quantity		Propeller fan x 1	Propeller fan x 1
	Airflow rate	m^3/min	240	240
	Motor output	kW	0.64	0.64
Compressor	Type		Hermetic	-
	Motor output	kW	8.6 + 8.6	-
	Crankcase heater	kW	0.045 x 2	-
Heat exchanger			Salt resistant fin	
Refrigerant / Lubricant			R410A / MEL32	
External finish			Pre-coated galvanized sheets (+ powder coating for –BS type) <MUNSEL 5Y 8/1 or similar>	
External dimension H x W x D		mm	1,840 x 1,690 x 840	1,840 x 990 x 840
Protection devices	High pressure protection		4.15MPa	-
	Compressor		Over current protection Over heat protection	-
	Fan		Thermal switch	Thermal switch
	Inverter		Over current protection Thermal protection	Over current protection Thermal protection
Refrigerant piping diameter Liquid/Gas	Main pipe		ϕ19.05 Brazed + Flare / ϕ34.93 Brazed	-
	Outdoor unit connection pipe		ϕ12.7 Flare / ϕ28.58 Flange	ϕ12.7 Brazed / ϕ28.58 Brazed
Net weight		kg	430	155
Operating temperature range			Cooling	Heating
			Indoor : 15˚CWB ~ 24˚CWB Outdoor: -5˚CDB ~ 43˚CDB (0˚CDB ~ 43˚CDB, when the outdoor unit is at a lower position)	Indoor : 15˚CDB ~ 27˚CDB Outdoor:-20˚CWB ~ 15.5˚CWB

Note: *1. Cooling/Heating capacity indicates the maximum value at operation under the following condition.

† <Cooling> Indoor : 27˚CDB / 19˚CWB Outdoor : 35˚CDB
<Heating> Indoor : 20˚CDB Outdoor : 7˚CDB / 6˚CWB
Pipe length : 7.5m Height difference : 0m

†† <Cooling> Indoor : 27˚CDB / 19.5˚CWB
Pipe length : 5m

*2. It is measured in anechoic room.

** Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.

Ref.: M-WYNCO-6937/6950

Model name			PUHY-P750YSGM-A (-BS)	
			Cooling	Heating
Capacity	*1 †	kW	84.0	94.5
	*1 †	BTU/h	286,600	322,400
	*1 ††	kcal/h	75,000	-
Power source			3N ~ 380/400/415V 50/60Hz	
Power input		kW	24.90	25.37
Current		A	42.0 / 39.9 / 38.4	42.8 / 40.6 / 39.2
Refrigerant piping diameter Liquid/Gas			ø19.05 Flare / ø34.93 Flare	
Indoor unit	Total capacity		50~130% of outdoor unit capacity	
	Model / Quantity		Model P20~P250 / 1~34	
Noise level	*2	dB<A>	63 / 63	

❊The above unit is a combination of **PUHY-P750YGM-A(-BS)** and **PUHN-P01YGM-A(-BS)**

Model name			PUHY-P750YGM-A (-BS)	PUHN-P01YGM-A (-BS)
Fan	Type x Quantity		Propeller fan x 1	Propeller fan x 1
	Airflow rate	m^3/min	240	240
	Motor output	kW	0.64	0.64
Compressor	Type		Hermetic	-
	Motor output	kW	9.4 + 9.4	-
	Crankcase heater	kW	0.045 x 2	-
Heat exchanger			Salt resistant fin	
Refrigerant / Lubricant			R410A / MEL32	
External finish			Pre-coated galvanized sheets (+ powder coating for –BS type) <MUNSEL 5Y 8/1 or similar>	
External dimension H x W x D		mm	1,840 x 1,690 x 840	1,840 x 990 x 840
Protection devices	High pressure protection		4.15MPa	-
	Compressor		Over current protection Over heat protection	-
	Fan		Thermal switch	Thermal switch
	Inverter		Over current protection Thermal protection	Over current protection Thermal protection
Refrigerant piping diameter Liquid/Gas	Main pipe		ø19.05 Brazed + Flare / ø34.93 Brazed	-
	Outdoor unit connection pipe		ø12.7 Flare / ø28.58 Flange	ø12.7 Brazed / ø28.58 Brazed
Net weight		kg	430	155
Operating temperature range			Cooling	Heating
			Indoor : 15˚CWB ~ 24˚CWB Outdoor: -5˚CDB ~ 43˚CDB (0˚CDB ~ 43˚CDB, when the outdoor unit is at a lower position)	Indoor : 15˚CDB ~ 27˚CDB Outdoor:-20˚CWB ~ 15.5˚CWB

Note: *1. Cooling/Heating capacity indicates the maximum value at operation under the following condition.

† <Cooling> Indoor : 27˚CDB / 19˚CWB Outdoor : 35˚CDB
<Heating> Indoor : 20˚CDB Outdoor : 7˚CDB / 6˚CWB
Pipe length : 7.5m Height difference : 0m

†† <Cooling> Indoor : 27˚CDB / 19.5˚CWB
Pipe length : 5m

*2. It is measured in anechoic room.

** Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.

Ref.: M-WYNCO-6938/6951

Y-28~32(R410A)

Model name			PUHY-P800YSGM-A (-BS)	
			Cooling	Heating
Capacity	*1 †	kW	90.0	100.0
	*1 †	BTU/h	307,000	341,200
	*1 ††	kcal/h	80,000	-
Power source			3N ~ 380/400/415V 50/60Hz	
Power input		kW	26.75	26.90
Current		A	45.1 / 42.9 / 41.3	45.4 / 43.1 / 41.5
Refrigerant piping diameter Liquid/Gas			ϕ19.05 Flare / ϕ34.93 Flare	
Indoor unit	Total capacity		50~130% of outdoor unit capacity	
	Model / Quantity		Model P20~P250 / 1~34	
Noise level	*2	dB<A>	64 / 64	

❊The above unit is a combination of **PUHY-P800YGM-A(-BS)** and **PUHN-P01YGM-A(-BS)**

Model name			PUHY-P800YGM-A (-BS)	PUHN-P01YGM-A (-BS)
Fan	Type x Quantity		Propeller fan x 1	Propeller fan x 1
	Airflow rate	m^3/min	240	240
	Motor output	kW	0.64	0.64
Compressor	Type		Hermetic	-
	Motor output	kW	10.1 + 10.1	-
	Crankcase heater	kW	0.045 x 2	-
Heat exchanger			Salt resistant fin	
Refrigerant / Lubricant			R410A / MEL32	
External finish			Pre-coated galvanized sheets (+ powder coating for –BS type) <MUNSEL 5Y 8/1 or similar>	
External dimension H x W x D		mm	1,840 x 1,690 x 840	1,840 x 990 x 840
Protection devices	High pressure protection		4.15MPa	-
	Compressor		Over current protection Over heat protection	-
	Fan		Thermal switch	Thermal switch
	Inverter		Over current protection Thermal protection	Over current protection Thermal protection
Refrigerant piping diameter Liquid/Gas	Main pipe		ϕ19.05 Brazed + Flare / ϕ34.93 Brazed	-
	Outdoor unit connection pipe		ϕ12.7 Flare / ϕ28.58 Flange	ϕ12.7 Brazed / ϕ28.58 Brazed
Net weight		kg	430	155
Operating temperature range			Cooling	Heating
			Indoor : 15˚CWB ~ 24˚CWB Outdoor: -5˚CDB ~ 43˚CDB (0˚CDB ~ 43˚CDB, when the outdoor unit is at a lower position)	Indoor : 15˚CDB ~ 27˚CDB Outdoor:-20˚CWB ~ 15.5˚CWB

Note: *1. Cooling/Heating capacity indicates the maximum value at operation under the following condition.

† <Cooling> Indoor : 27˚CDB / 19˚CWB Outdoor : 35˚CDB
<Heating> Indoor : 20˚CDB Outdoor : 7˚CDB / 6˚CWB
Pipe length : 7.5m Height difference : 0m

†† <Cooling> Indoor : 27˚CDB / 19.5˚CWB
Pipe length : 5m

*2. It is measured in anechoic room.

** Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.

Ref.: M-WYNCO-6939/6952

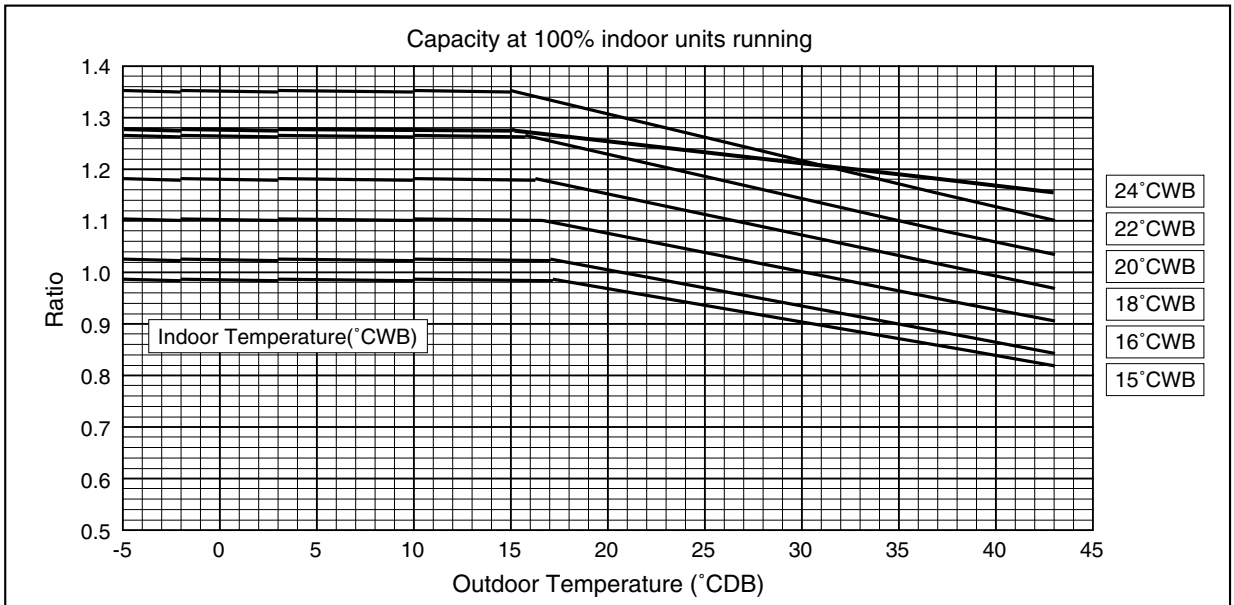
2. Capacity Table

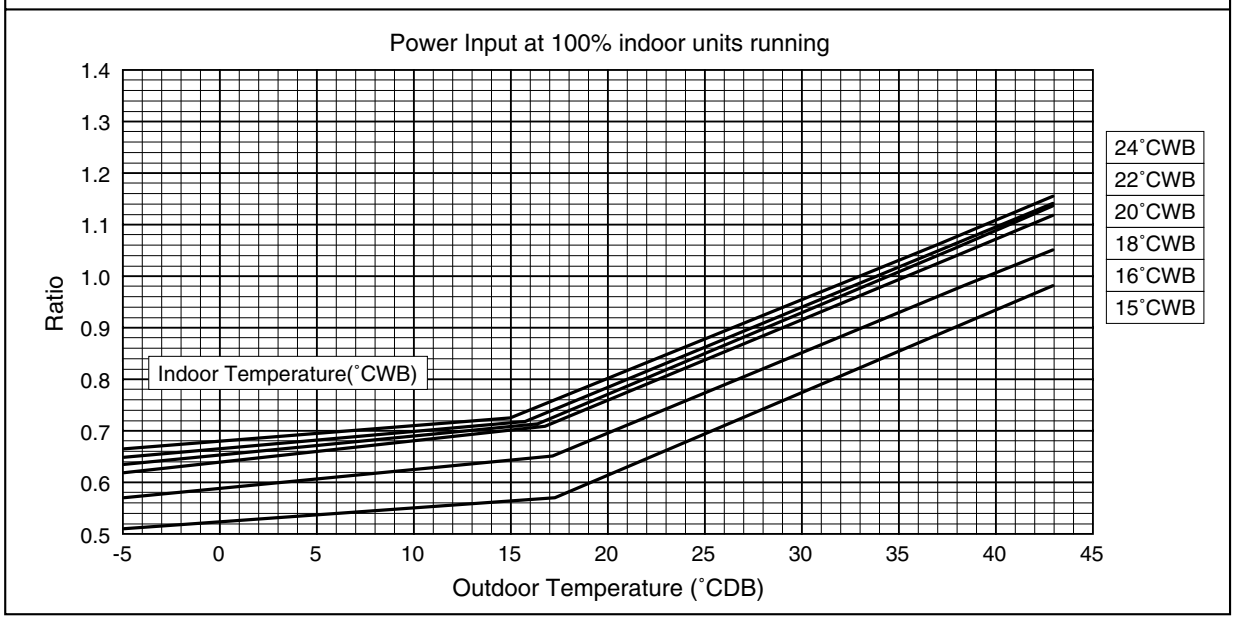
2-1. Correction by temperature

Cooling

• Standard Specifications

		PUHY-P700YGM	PUHY-P750YGM	PUHY-P800YGM
Capacity	kW	78.4	84.0	90.0
Input	kW	21.70	24.90	26.75



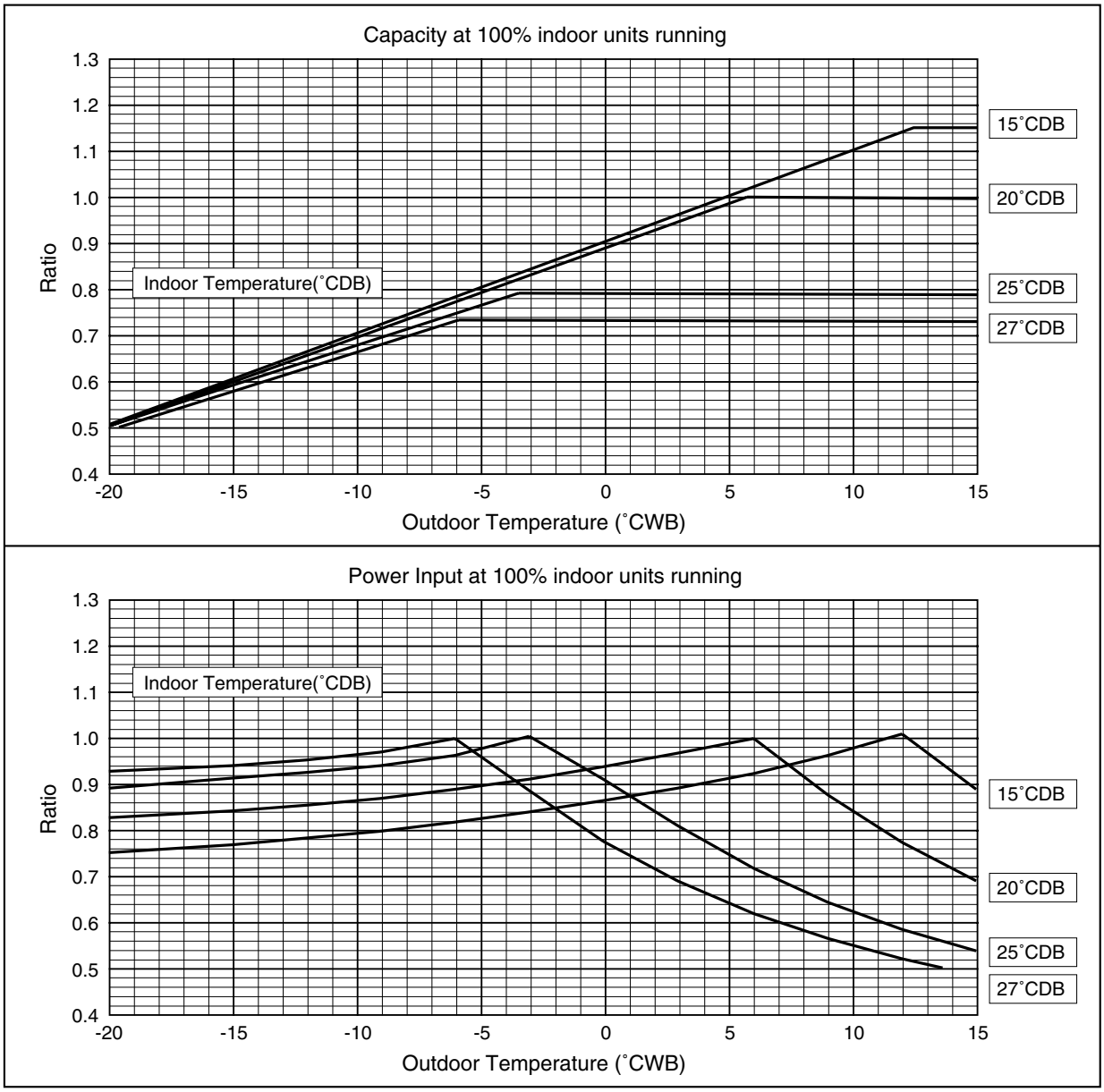


Ref: cap&inpc-p700-800

Heating

• Standard Specifications

		PUHY-P700YGM	PUHY-P750YGM	PUHY-P800YGM
Capacity	kW	88.0	94.5	100.0
Input	kW	21.83	25.37	26.90

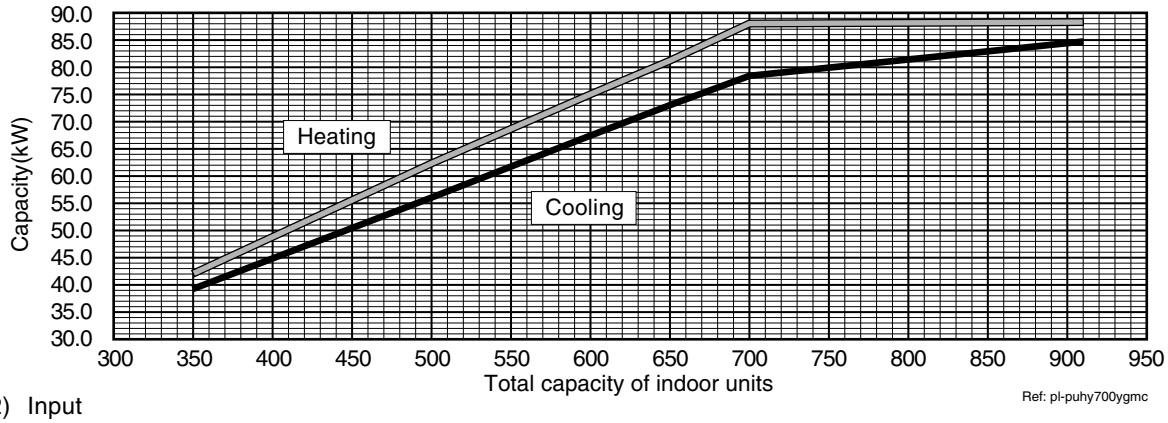


Ref: cap&inph-p700-800

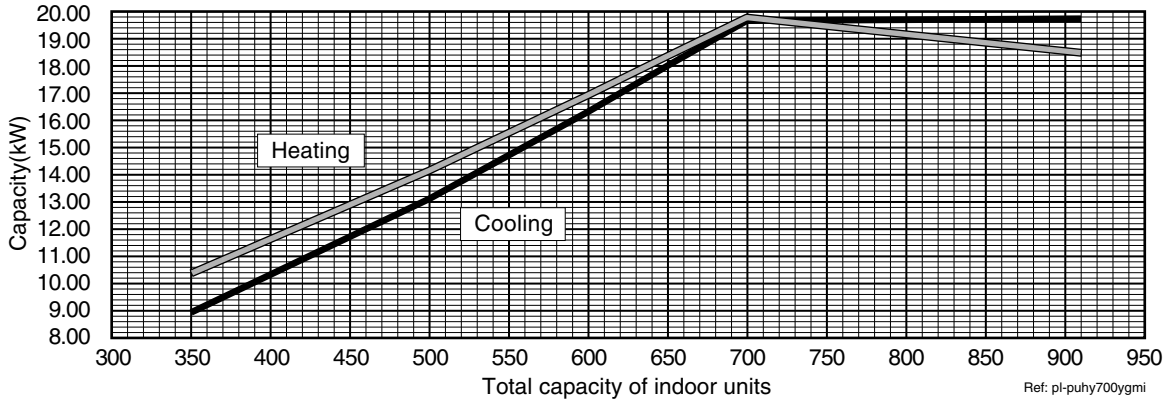
2-2. Correction by total indoor

PUHY-P700YSGM

1) Capacity

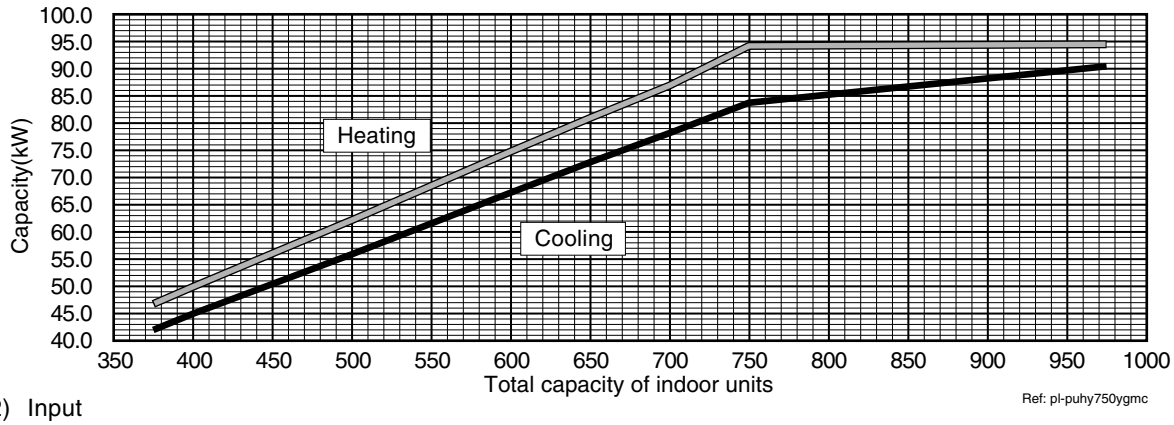


2) Input

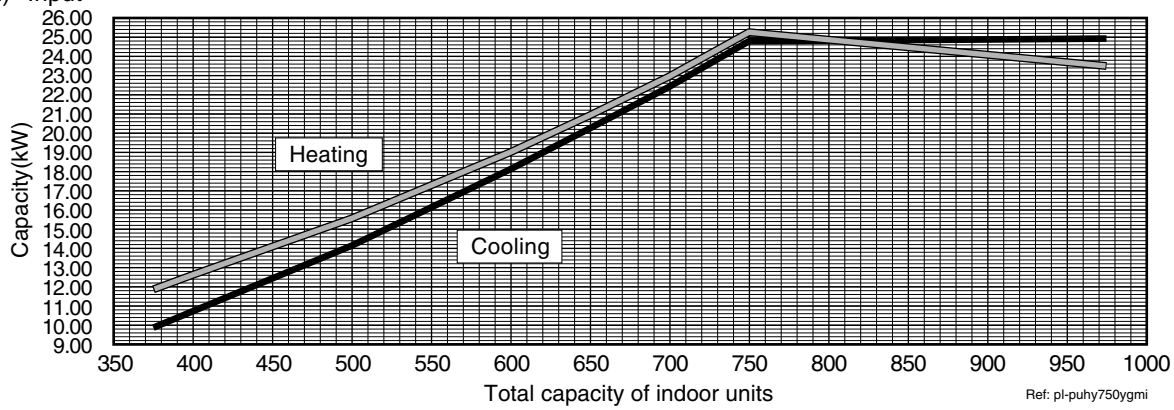


PUHY-P750YSGM

1) Capacity

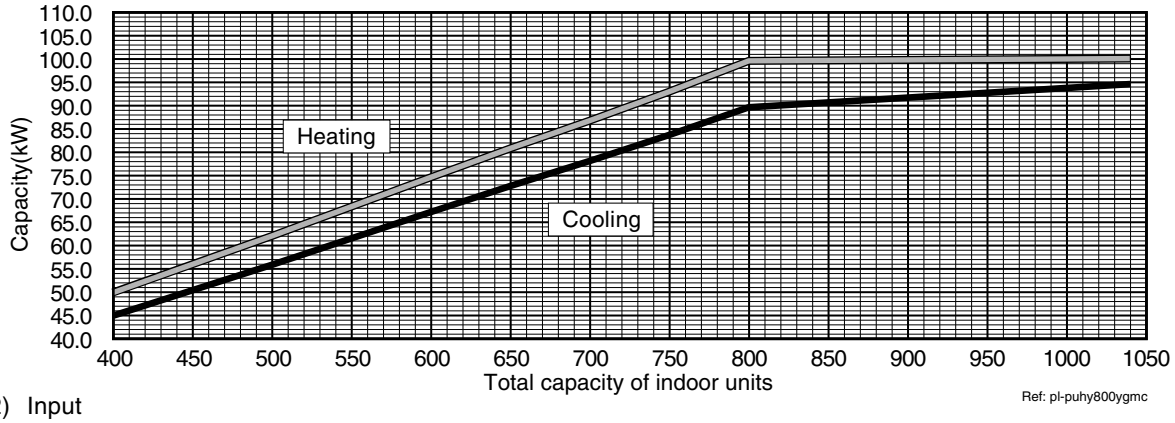


2) Input

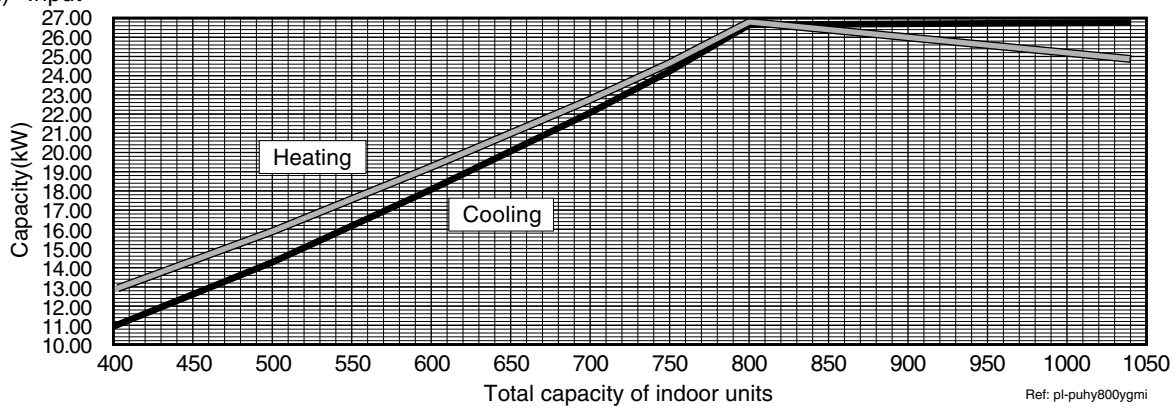


PUHY-P800YSGM

1) Capacity



2) Input

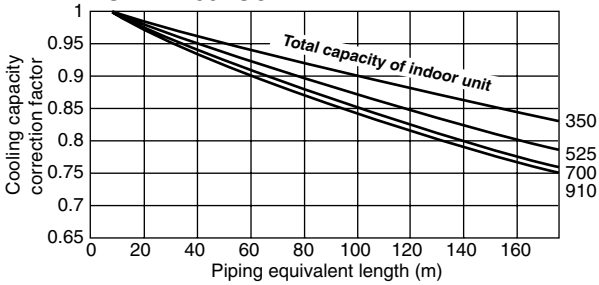


2-3. Correction by refrigerant piping length

Due to the extension of refrigerant piping, a decrease of cooling/heating capacity happens. The actual capacity is considered by multiplying the correction factor according to the equivalent length of the refrigerant piping shown at the table below.

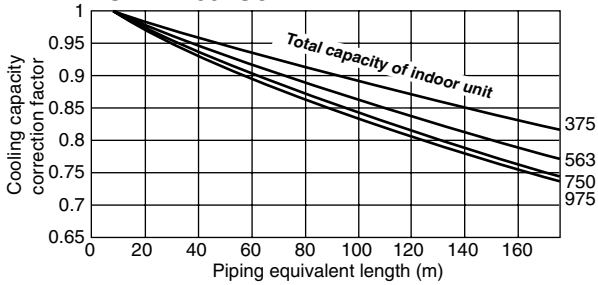
• Cooling capacity correction

PUHY-P700YSGM



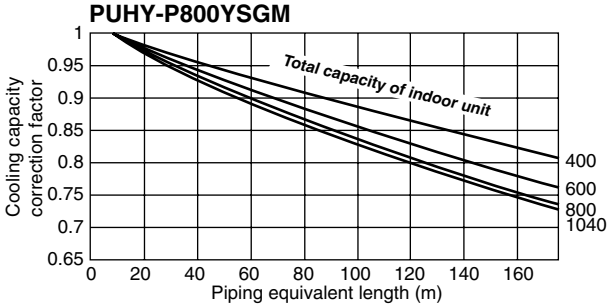
Ref.: crpl-p700ygmc

PUHY-P750YSGM



Ref.: crpl-p750ygmc

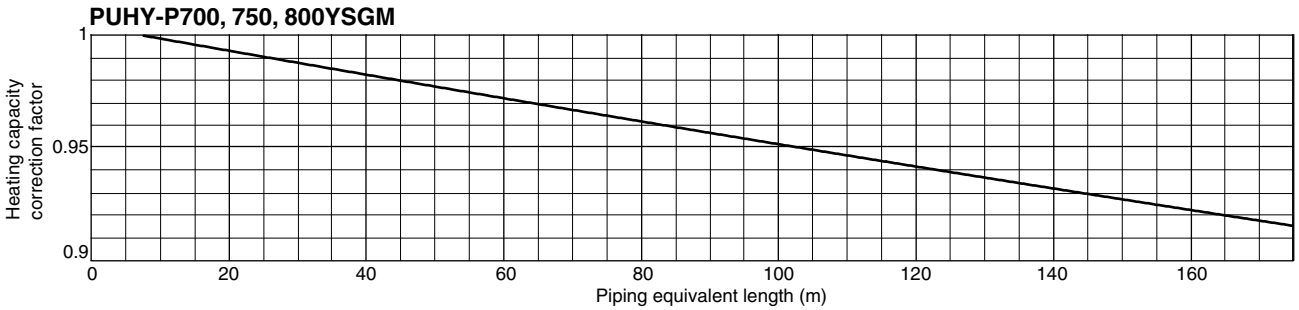
PUHY-P800YSGM



Ref.: crpl-p800ygmc

• Heating capacity correction

PUHY-P700, 750, 800YSGM



Ref.: h700-800ysgm-MEE03W211(P102)

• How to obtain piping equivalent length

1 **PU(H)Y, PURY-P200YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.35 x number of bent on the piping) m

2 **PU(H)Y, PURY-P250,300YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.42 x number of bent on the piping) m

3 **PU(H)Y, PURY-P350YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.47 x number of bent on the piping) m

4 **PUHY, PURY-P400,450,500,550,600,650YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.50 x number of bent on the piping) m

5 **PUHY-P700,750,800YSGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.70 x number of bent on the piping) m

2-4. Correction at frosting and defrosting

Due to frosting at the outdoor heat exchanger and the automatical defrosting operation, the heating capacity of the outdoor unit should be considered by multiplying the correction factor which shown in the table below.

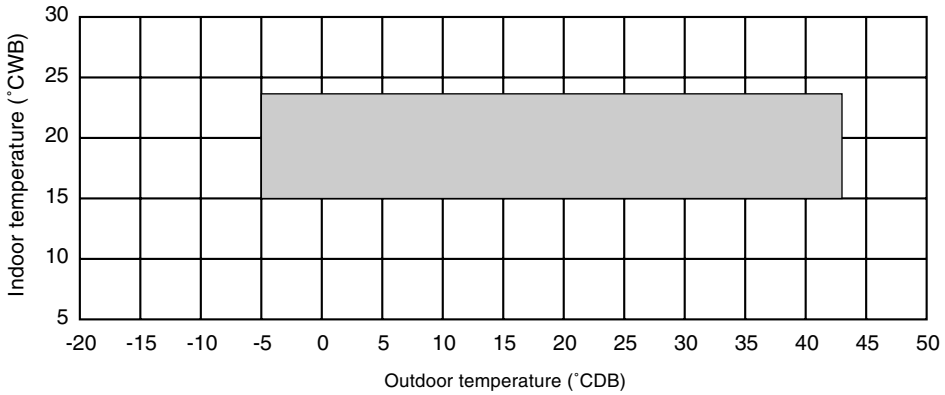
Table of correction factor

Outdoor inlet air temp (˚CWB)	6	4	2	1	0	-2	-4	-6	-8	-10	-20
Correction factor	1.0	0.98	0.89	0.879	0.89	0.90	0.92	0.95	0.95	0.95	0.95

Ref.: def-ygmp700-800

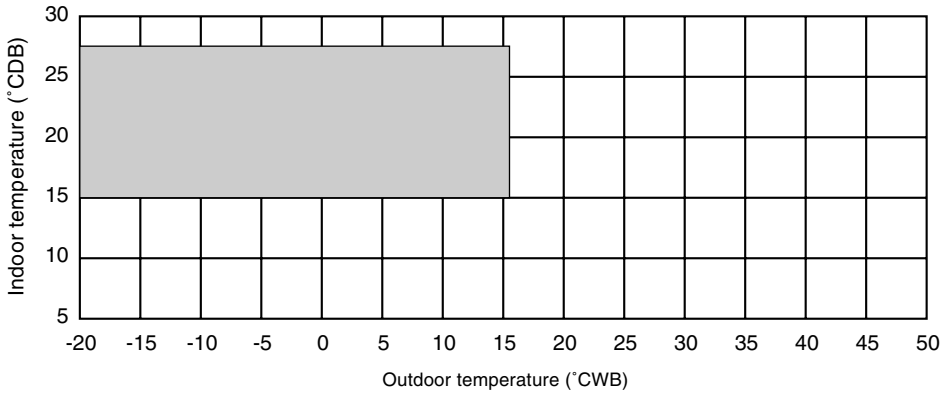
2-5. Operation limit

• Cooling



* The operation temperature of outdoor unit is limited into 0~43˚CDB when the outdoor unit is at a postion lower than the indoor units.

• Heating



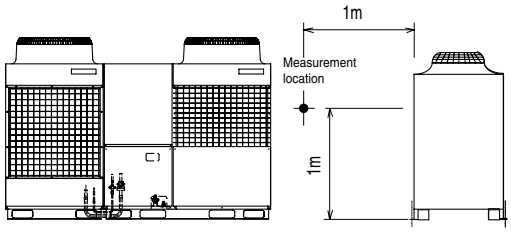
Ref.: ol-ygmhp

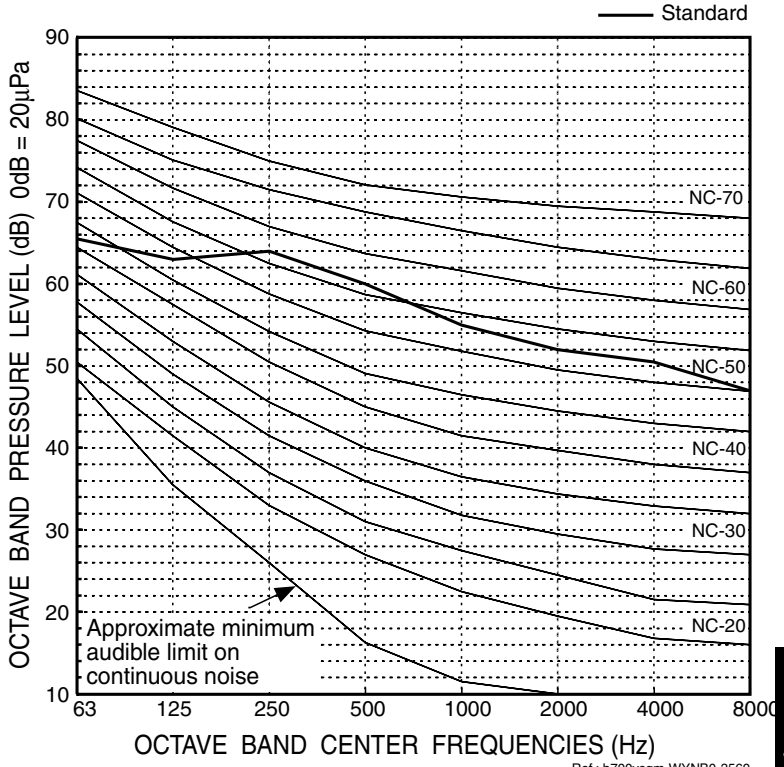
3. Sound Levels

PUHY-P700YSGM

		63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	dB(A)
Standard	50/60Hz	65.5	63	64	60	55	52	50.5	47	62

Measurement condition



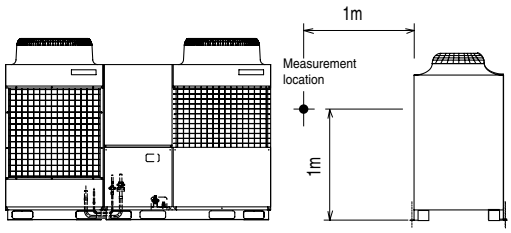


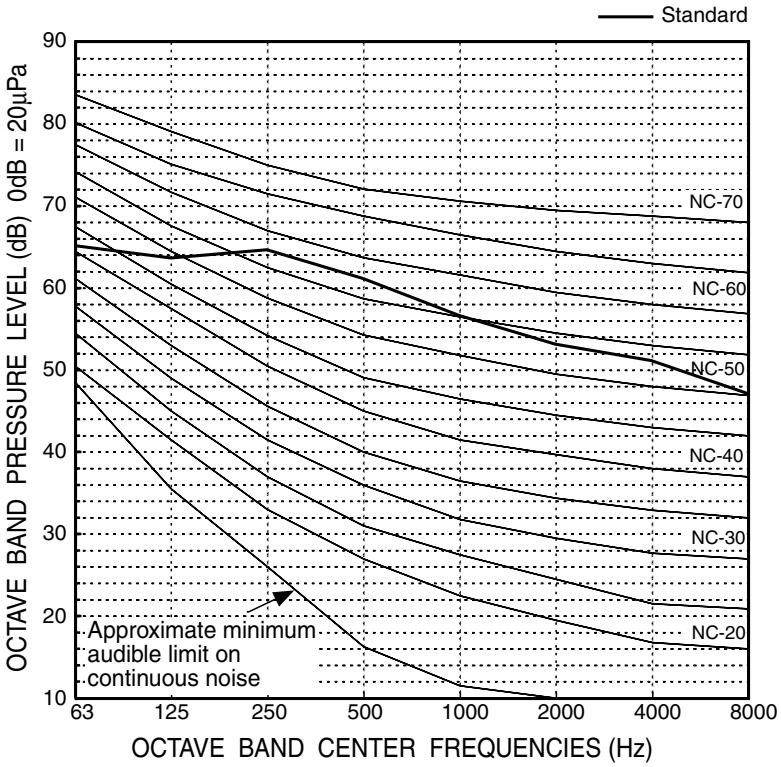
Ref.: h700ysgm-WYNB0-3560

PUHY-P750YSGM

		63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	dB(A)
Standard	50/60Hz	65	63.5	64.5	61	56.5	53	51	47	63

Measurement condition



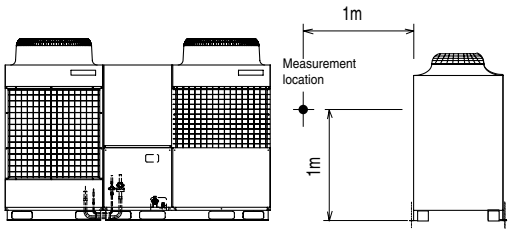


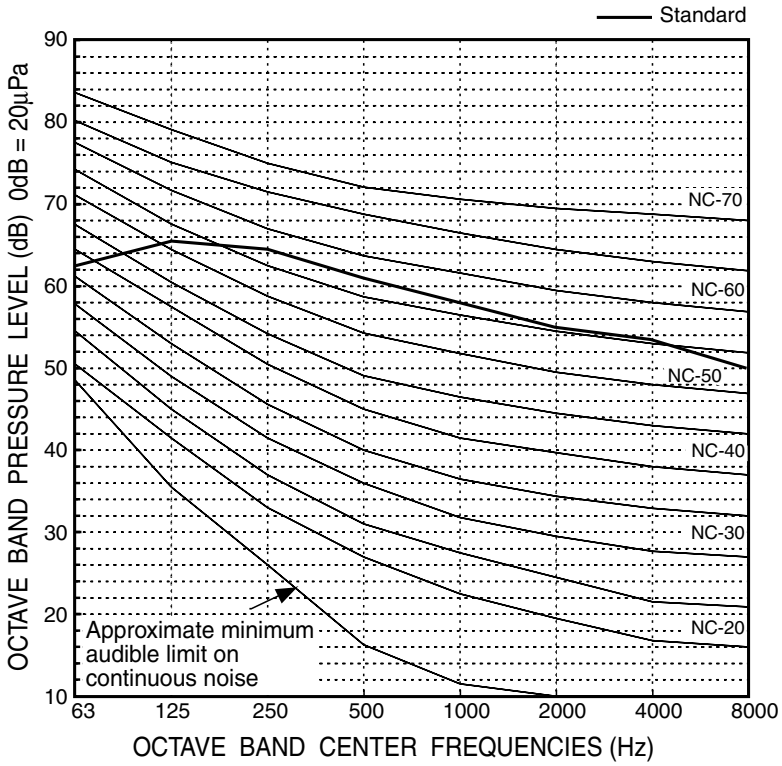
Ref.: h750ysgm-WYNB0-3561

PUHY-P800YSGM

		63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	dB(A)
Standard	50/60Hz	62.5	65.5	64.5	61	58	55	53.5	50	64

Measurement condition



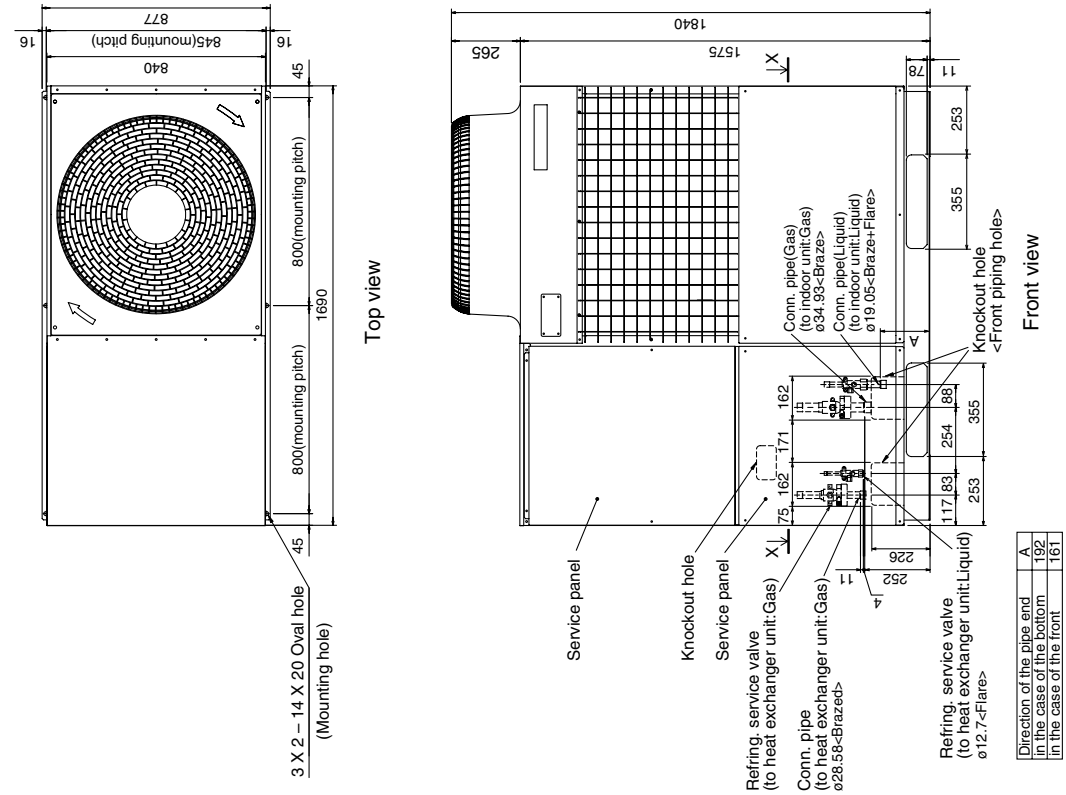


Ref.: h800ysgm-WYNB0-3562

4. External Dimensions

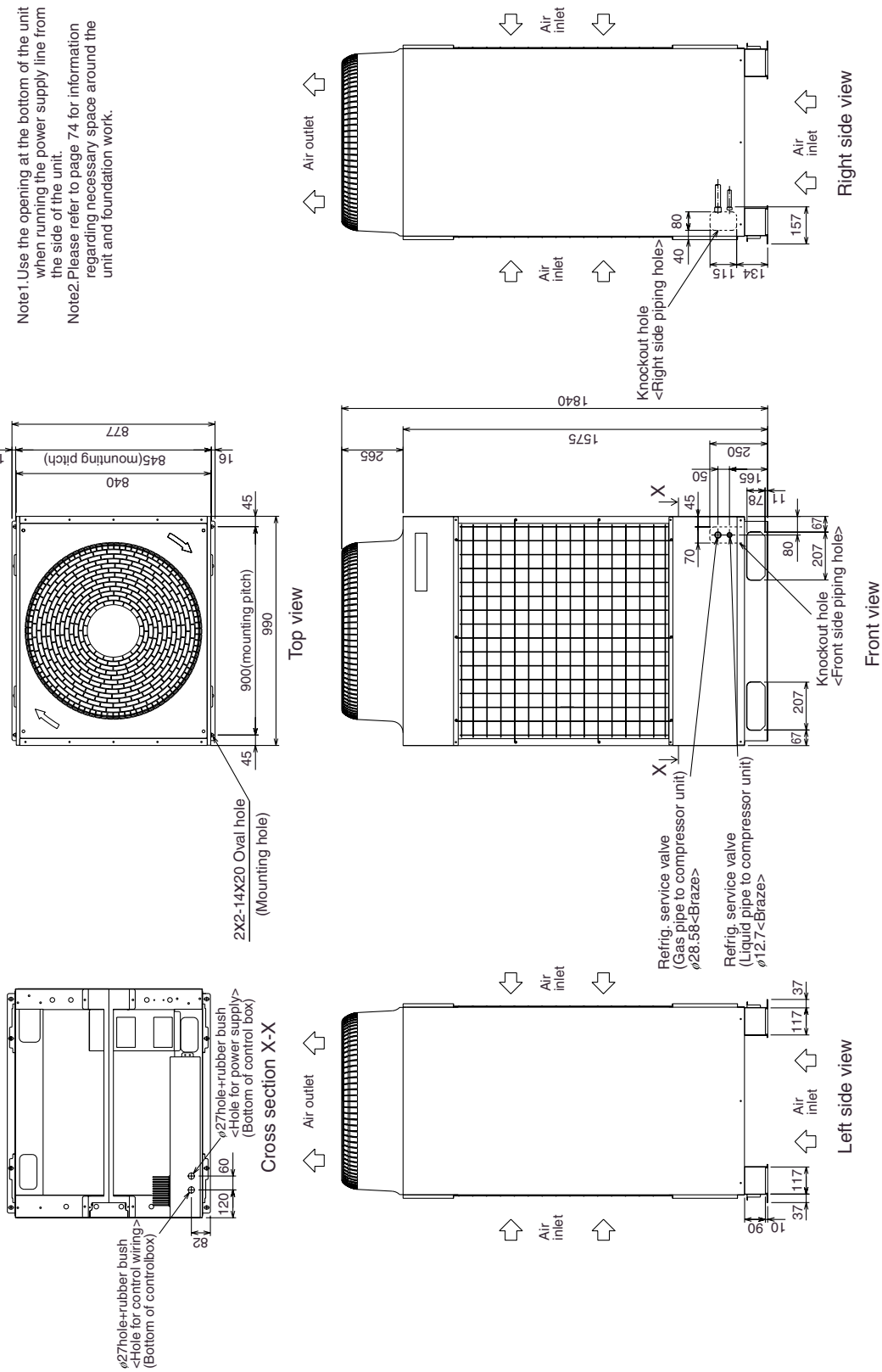
PUHY-P700,750,800YGM-A(-BS)

Unit : mm



PUHN-P01YGM-A(-BS)

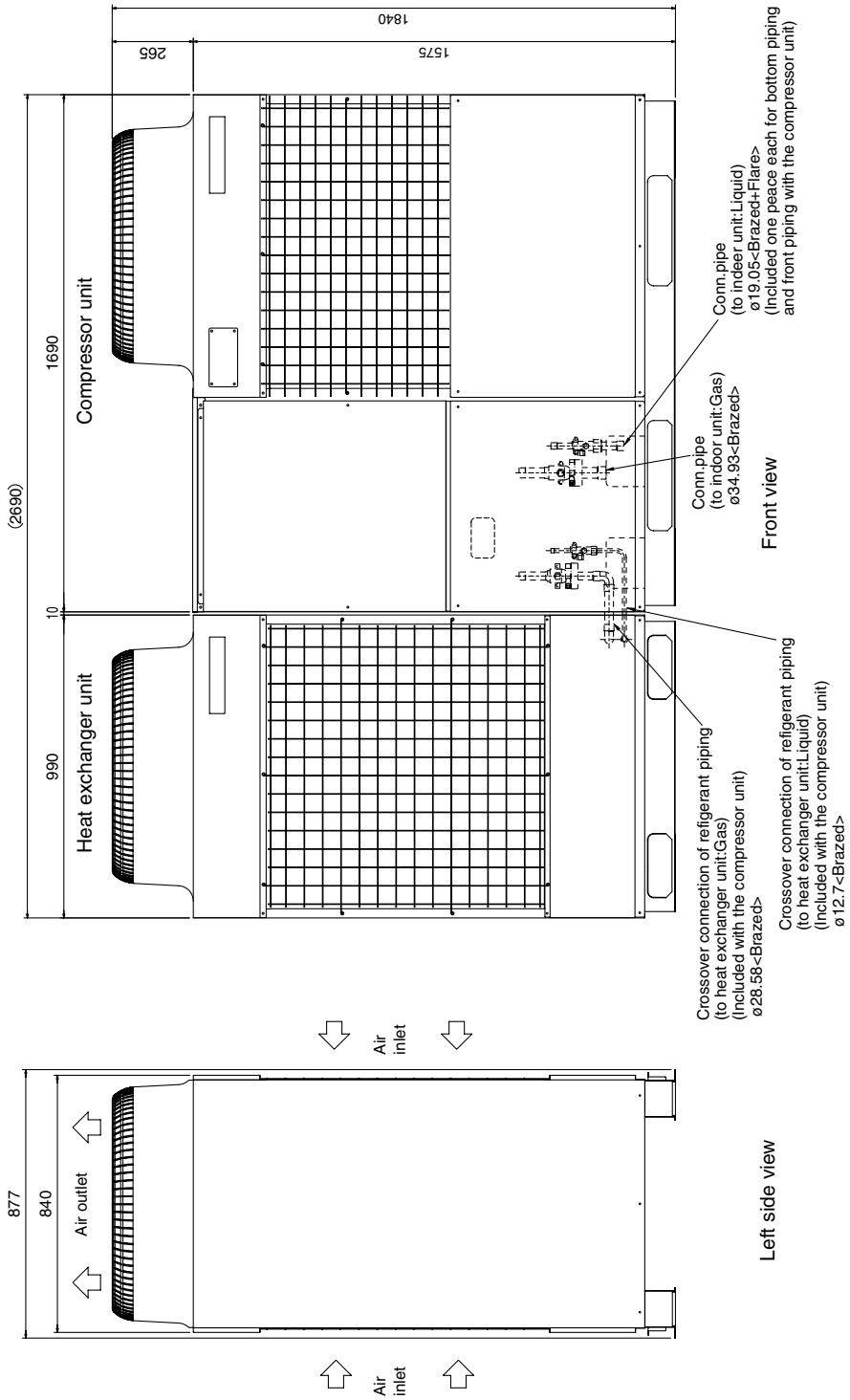
Unit : mm



Ref: ysgm-W656823A 1/2

PUHY-P700,750,800YSGM-A(-BS)

Unit : mm



Ref: ysgm-W656825A 1/1

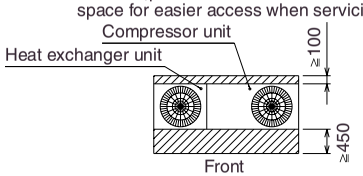
Y-28-32(R410A)

Spacing of PUHY-P700,750,800YSGM-A(-BS)

1.Space required around unit

✻ In case of single installation [Basic rules for spacing the unit]

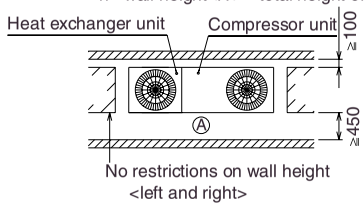
①There must be a minimum of 100 mm of back space. However,provide 450 mm or more of back space as front space for easier access when servicing the unit.

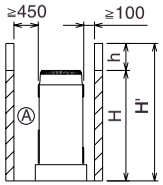


<Top view>

[When inlet air enters from right and left sides of unit]

①Wall heights<H> of the front and the back sides shall be within total height of unit.
②When wall height<H'> exceeds total height of unit, add <h>dimension to 450 of the following figure.
h= wall height<H'> - total height of unit.

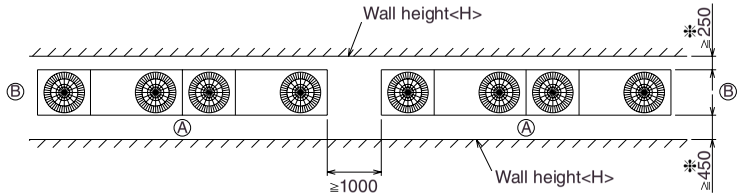


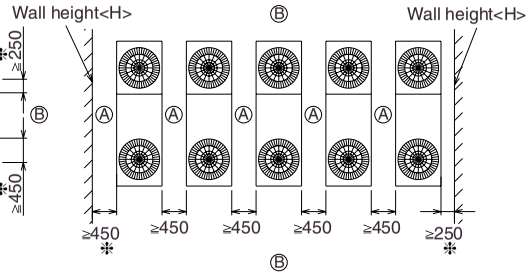


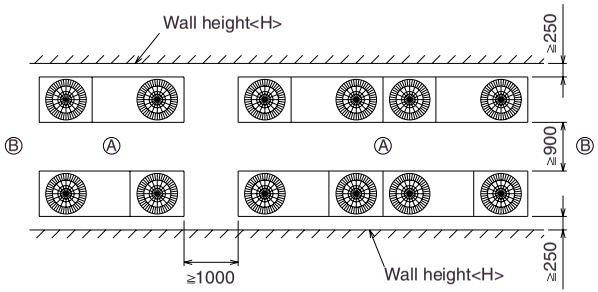
<Side view>

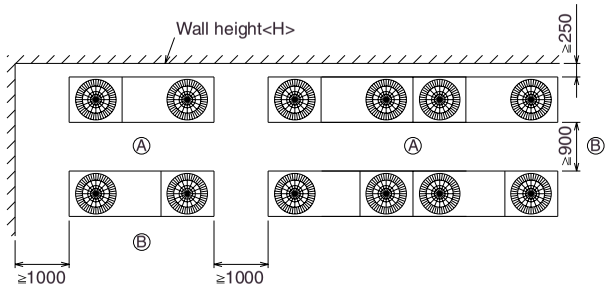
✻ In case of collective installation and continuous installation

①Space required for collective installation and continuous installation:
When installing several units, provide the space between each block considering passage for air flow and people.
②Open in two directions around units.
③In case of wall height<H> exceeds total height of unit,add <h>dimension (h= wall height<H> - total height of unit)to ✻ marked dimension.
④If there is a wall at both of the front and the rear of the unit,install up to 2 sets(heat exchanger unit and compressor unit:2 units each) consecutively in the side direction and provide a space of 1000 mm or more for air inlet space/passage space for each 2 sets.







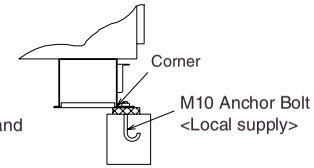


Ⓐ Front
Ⓑ Must be open

(Unit:mm)

2.Foundation work

①When building the foundation,give full attention to the floor strength, drain water disposal <drain water flows out of the unit,during operation>, piping and wiring routes.
②Be sure that the corners are firmly seated.If the corners are not firmly seated,the installation feet may be bent.
③When down piping and down wiring are performed,be sure that foundation and base work does not block the base through holes.



Ref: ysgm-W656824 2/2

5. Electrical Wiring Diagram

PUHY-P700, 750, 800YGM-A(-BS)

< Symbol explanation >

Symbol	Name
ACCT1, 2	AC Current Sensor
DCCT1, 2	DC Current Sensor
DCL1, 2	DC reactor (Power factor improvement)
52C1, 2	Magnetic contactor (Inverter main circuit)
MF1, 2	Fan motor (Radiator panel)
CH11,12	Crank case heater (Compressor)
21S4a, b, c	4-way valve
SV1, 3	Solenoid valve (Discharge-suction bypass)
SV5b, c	Solenoid valve (Heat exchanger capacity control)
LEV1	Electronic expansion valve (SC coil)
TH11,12	Thermistor: Discharge pipe temp. detect
TH5	Thermistor: Pipe temp.detect (Hex outlet)
TH6	Thermistor: OA temp.detect
TH7	Thermistor: liquid outlet temp.detect at Sub-cool coil
TH8	Thermistor: bypass outlet temp.detect at Sub-cool coil
TH10	Thermistor: Comp. shell temp. detect
THHS1, 2	Thermistor: Radiator panel temp. detect
63H1, 2	High pressure switch
63HS	High pressure sensor
63LS	Low pressure sensor
L1, L2	Choke coil (Transmission)
Z20	Function device
⏚	Earth terminal

※1 : Function according to switch operation. (SW4-7,CN3D 1-2P, and CN3D 1-3P)

SW4-7:OFF (Compressor ON/OFF and NIGHT MODE)

CN3D 1-3P	Compressor ON/OFF	CN3D 1-2P	NIGHT MODE
OPEN	ON	OPEN	OFF
SHORT	OFF	SHORT	ON

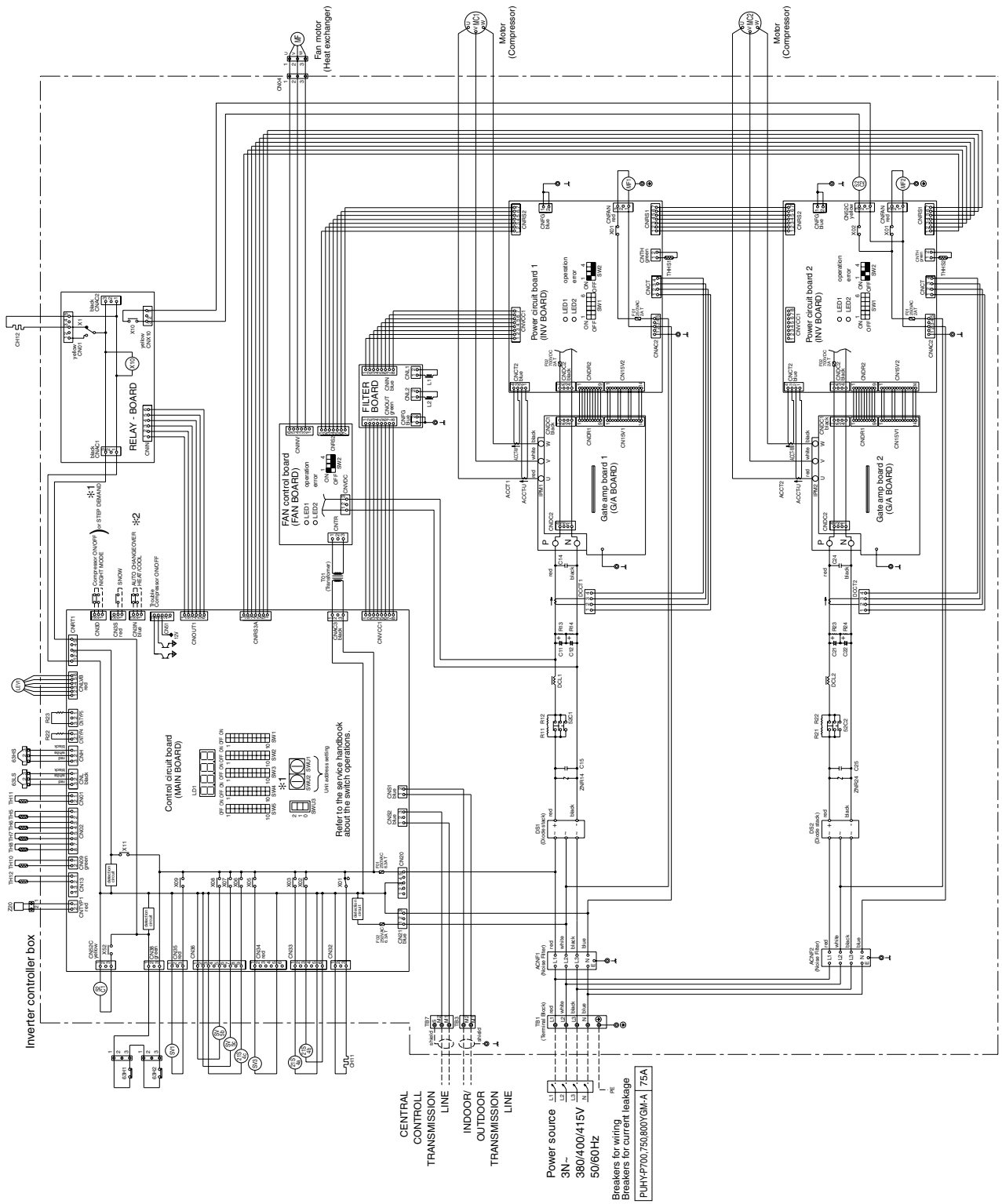
SW4-7:ON (STEP DEMAND)

CN3D 1-2P / CN3D 1-3P	OPEN	SHORT
OPEN	100%	75%
SHORT	0%	50%

※2:Auto changeover (CN3N 1-2P,1-3P)

CN3N 1-2P / CN3N 1-3P	OPEN	SHORT
OPEN	-	-
SHORT	COOL	HEAT

NOTE:The broken lines indicate field wiring.

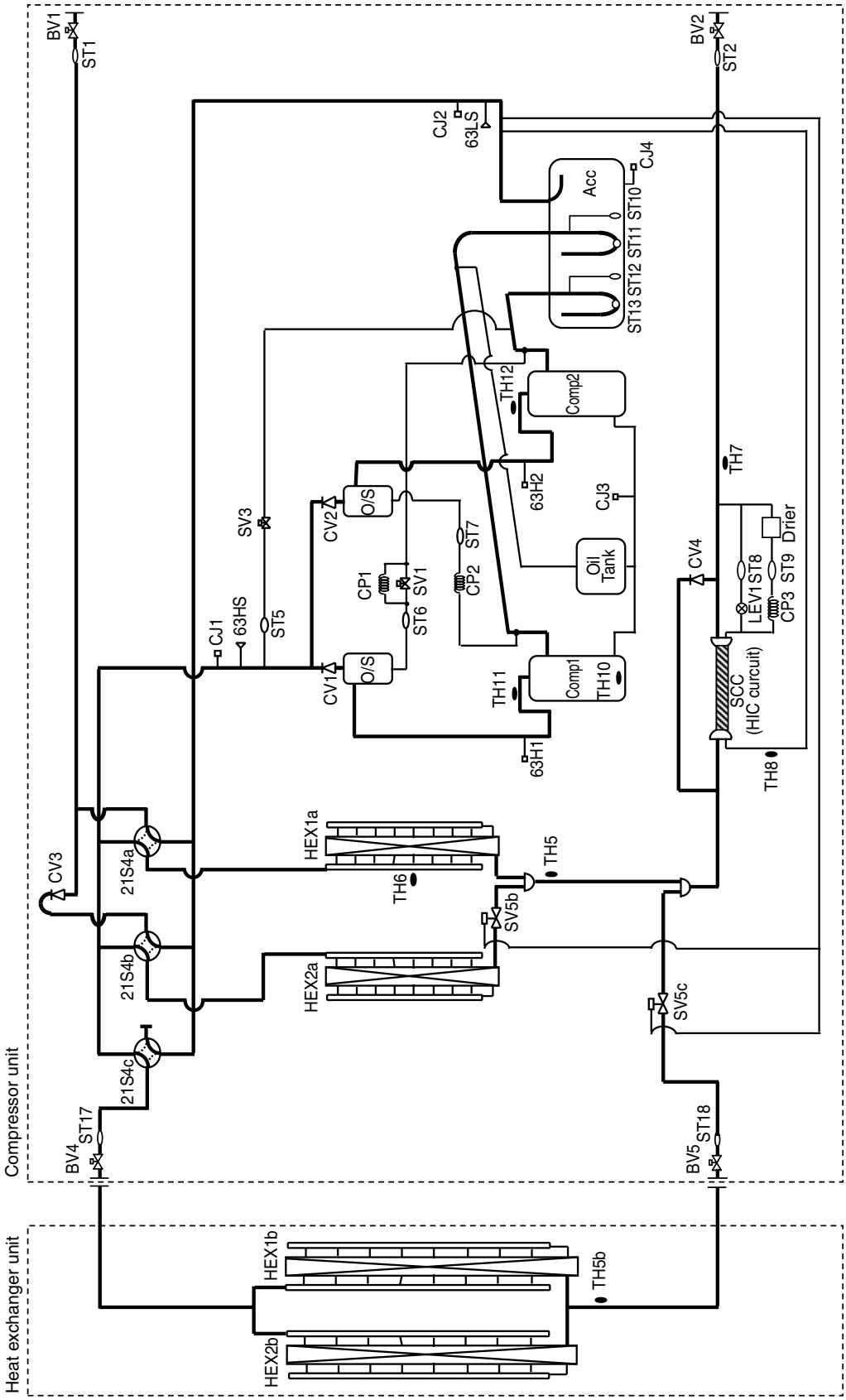


Ref: Yp700~800ygm-W274621

Y-28~32(R410A)

6. Refrigerant Circuit Diagram And Thermal Sensor

PUHY-P700, 750, 800YSGM-A(-BS)



Ref: rcd-700~800ygmhp

PURY-P200·250·300·350YGM-A (-BS)

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6. Refrigerant Circuit Diagram And Thermal Sensor Ⅱ-95

1. Specifications

Model name			PURY-P200YGM-A (-BS)	
			Cooling	Heating
Capacity	*1†	kW	22.4	25.0
	*1†	BTU/h	76,400	85,300
	*1††	kcal/h	20,000	-
Power source			3N ~ 380/400/415V 50/60Hz	
Power input		kW	6.14	5.98
Current		A	10.3 / 9.8 / 9.4	10.0 / 9.5 / 9.2
Fan	Type x Quantity		Propeller fan x 1	
	Airflow rate	m^3/min	200	
	Motor output	kW	0.38	
Compressor	Type		Hermetic	
	Motor output	kW	4.7	
	Crankcase heater	kW	0.045 x 1	
Heat exchanger			Salt resistant fin	
Refrigerant / Lubricant			R410A / MEL56	
External finish			Pre-coated galvanized sheets (+ powder coating for –BS type) <MUNSEL 5Y 8/1 or similar>	
External dimension H x W x D		mm	1,840 x 990 x 840	
Protection devices	High pressure protection		4.15MPa	
	Compressor		Over current protection / Over heat protection	
	Fan		Thermal switch	
	Inverter		Over current protection / Thermal protection	
Refrigerant piping diameter	High press. pipe		ø15.88 Brazed	
	Low press. pipe		ø19.05 Brazed	
Indoor unit	Total capacity		50~150% of outdoor unit capacity	
	Model / Quantity		Model P20~P250 / 1~15	
Noise level	*2	dB<A>	56 / 56	
Net weight		kg	236	
Operating temperature range			Cooling	Heating
			Indoor : 15˚CWB ~ 24˚CWB Outdoor: -5˚CDB ~ 43˚CDB	Indoor : 15˚CDB ~ 27˚CDB Outdoor: -20˚CWB ~ 15.5˚CWB

Note: *1. Cooling/Heating capacity indicates the maximum value at operation under the following condition.

† <Cooling> Indoor : 27˚CDB / 19˚CWB Outdoor : 35˚CDB
<Heating> Indoor : 20˚CDB Outdoor : 7˚CDB / 6˚CWB
Pipe length : 7.5m Height difference : 0m

†† <Cooling> Indoor : 27˚CDB / 19.5˚CWB Outdoor : 35˚CDB
Pipe length : 5m Height difference : 0m

*2. It is measured in anechoic room.

** Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.

Ref.: M-WYNCO-6907&6917

R2-8~14(R410A)

Model name			PURY-P250YGM-A (-BS)	
			Cooling	Heating
Capacity	*1 †	kW	28.0	31.5
	*1 †	BTU/h	95,500	107,500
	*1 ††	kcal/h	25,000	-
Power source			3N ~ 380/400/415V 50/60Hz	
Power input		kW	7.72	7.62
Current		A	13.0 / 12.3 / 11.9	12.8 / 12.2 / 11.7
Fan	Type x Quantity		Propeller fan x 1	
	Airflow rate	m^3/min	200	
	Motor output	kW	0.38	
Compressor	Type		Hermetic	
	Motor output	kW	6.7	
	Crankcase heater	kW	0.045 x 1	
Heat exchanger			Salt resistant fin	
Refrigerant / Lubricant			R410A / MEL32	
External finish			Pre-coated galvanized sheets (+ powder coating for –BS type) <MUNSEL 5Y 8/1 or similar>	
External dimension H x W x D		mm	1,840 x 990 x 840	
Protection devices	High pressure protection		4.15MPa	
	Compressor		Over current protection / Over heat protection	
	Fan		Thermal switch	
	Inverter		Over current protection / Thermal protection	
Refrigerant piping diameter	High press. pipe		ø19.05 Brazed	
	Low press. pipe		ø22.2 Brazed	
Indoor unit	Total capacity		50~150% of outdoor unit capacity	
	Model / Quantity		Model P20~P250 / 1~16	
Noise level	*2	dB<A>	57 / 57	
Net weight		kg	251	
Operating temperature range			Cooling	Heating
			Indoor : 15˚CWB ~ 24˚CWB Outdoor: -5˚CDB ~ 43˚CDB	Indoor : 15˚CDB ~ 27˚CDB Outdoor: -20˚CWB ~ 15.5˚CWB

Note: *1. Cooling/Heating capacity indicates the maximum value at operation under the following condition.

† <Cooling> Indoor : 27˚CDB / 19˚CWB Outdoor : 35˚CDB
<Heating> Indoor : 20˚CDB Outdoor : 7˚CDB / 6˚CWB
Pipe length : 7.5m Height difference : 0m

†† <Cooling> Indoor : 27˚CDB / 19.5˚CWB Outdoor : 35˚CDB
Pipe length : 5m Height difference : 0m

*2. It is measured in anechoic room.

** Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.

Ref.: M-WYNCO-6908&6918

R2-8~14(R410A)

Model name			PURY-P300YGM-A (-BS)	
			Cooling	Heating
Capacity	*1†	kW	33.5	37.5
	*1†	BTU/h	114,300	127,900
	*1††	kcal/h	30,000	-
Power source			3N ~ 380/400/415V 50/60Hz	
Power input		kW	9.57	9.10
Current		A	16.1 / 15.3 / 14.7	15.3 / 14.5 / 14.0
Fan	Type x Quantity		Propeller fan x 1	
	Airflow rate	m^3/min	200	
	Motor output	kW	0.38	
Compressor	Type		Hermetic	
	Motor output	kW	8.0	
	Crankcase heater	kW	0.045 x 1	
Heat exchanger			Salt resistant fin	
Refrigerant / Lubricant			R410A / MEL32	
External finish			Pre-coated galvanized sheets (+ powder coating for –BS type) <MUNSEL 5Y 8/1 or similar>	
External dimension H x W x D		mm	1,840 x 990 x 840	
Protection devices	High pressure protection		4.15MPa	
	Compressor		Over current protection / Over heat protection	
	Fan		Thermal switch	
	Inverter		Over current protection / Thermal protection	
Refrigerant piping diameter	High press. pipe		ϕ19.05 Brazed	
	Low press. pipe		ϕ22.2 Brazed	
Indoor unit	Total capacity		50~150% of outdoor unit capacity	
	Model / Quantity		Model P20~P250 / 1~16	
Noise level	*2	dB<A>	59 / 59	
Net weight		kg	251	
			Cooling	Heating
Operating temperature range			Indoor : 15˚CWB ~ 24˚CWB Outdoor: -5˚CDB ~ 43˚CDB	Indoor : 15˚CDB ~ 27˚CDB Outdoor: -20˚CWB ~ 15.5˚CWB

Note: *1. Cooling/Heating capacity indicates the maximum value at operation under the following condition.

† <Cooling> Indoor : 27˚CDB / 19˚CWB Outdoor : 35˚CDB
<Heating> Indoor : 20˚CDB Outdoor : 7˚CDB / 6˚CWB
Pipe length : 7.5m Height difference : 0m

†† <Cooling> Indoor : 27˚CDB / 19.5˚CWB Outdoor : 35˚CDB
Pipe length : 5m Height difference : 0m

*2. It is measured in anechoic room.

** Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.

Ref.: M-WYNCO-6909&6919

R2-8~14(R410A)

Model name			PURY-P350YGM-A (-BS)	
			Cooling	Heating
Capacity	*1 †	kW	40.0	45.0
	*1 †	BTU/h	136,500	153,500
	*1 ††	kcal/h	35,000	-
Power source			3N ~ 380/400/415V 50/60Hz	
Power input		kW	11.39	11.02
Current		A	19.2 / 18.2 / 17.6	18.6 / 17.6 / 17.0
Fan	Type x Quantity		Propeller fan x 1	
	Airflow rate	m^3/min	200	
	Motor output	kW	0.38	
Compressor	Type		Hermetic	
	Motor output	kW	9.6	
	Crankcase heater	kW	0.045 x 1	
Heat exchanger			Salt resistant fin	
Refrigerant / Lubricant			R410A / MEL32	
External finish			Pre-coated galvanized sheets (+ powder coating for –BS type) <MUNSEL 5Y 8/1 or similar>	
External dimension H x W x D		mm	1,840 x 990 x 840	
Protection devices	High pressure protection		4.15MPa	
	Compressor		Over current protection / Over heat protection	
	Fan		Thermal switch	
	Inverter		Over current protection / Thermal protection	
Refrigerant piping diameter	High press. pipe		ø19.05 Brazed	
	Low press. pipe		ø28.58 Brazed	
Indoor unit	Total capacity		50~150% of outdoor unit capacity	
	Model / Quantity		Model P20~P250 / 1~20	
Noise level	*2	dB<A>	60 / 60	
Net weight		kg	251	
Operating temperature range			Cooling	Heating
			Indoor : 15˚CWB ~ 24˚CWB Outdoor: -5˚CDB ~ 43˚CDB	Indoor : 15˚CDB ~ 27˚CDB Outdoor: -20˚CWB ~ 15.5˚CWB

Note: *1. Cooling/Heating capacity indicates the maximum value at operation under the following condition.

† <Cooling> Indoor : 27˚CDB / 19˚CWB Outdoor : 35˚CDB
<Heating> Indoor : 20˚CDB Outdoor : 7˚CDB / 6˚CWB
Pipe length : 7.5m Height difference : 0m

†† <Cooling> Indoor : 27˚CDB / 19.5˚CWB Outdoor : 35˚CDB
Pipe length : 5m Height difference : 0m

*2. It is measured in anechoic room.

** Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.

Ref.: M-WYNCO-6910&6920

R2-8~14(R410A)

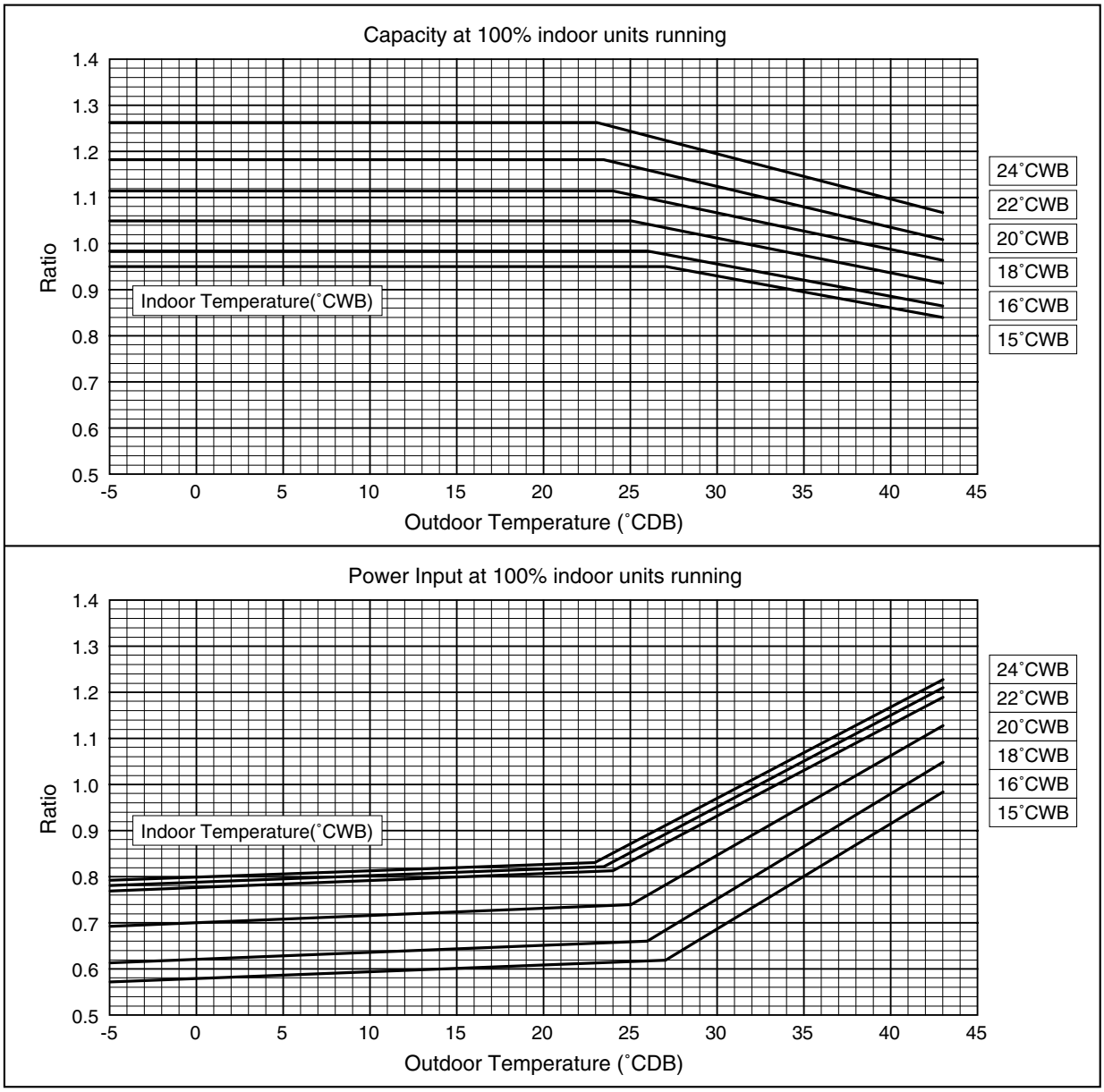
2. Capacity Table

2-1. Correction by temperature

Cooling

• Standard Specifications

		PURY-P200YGM	PURY-P250YGM
Capacity	kW	22.4	28.0
Input	kW	6.14	7.72



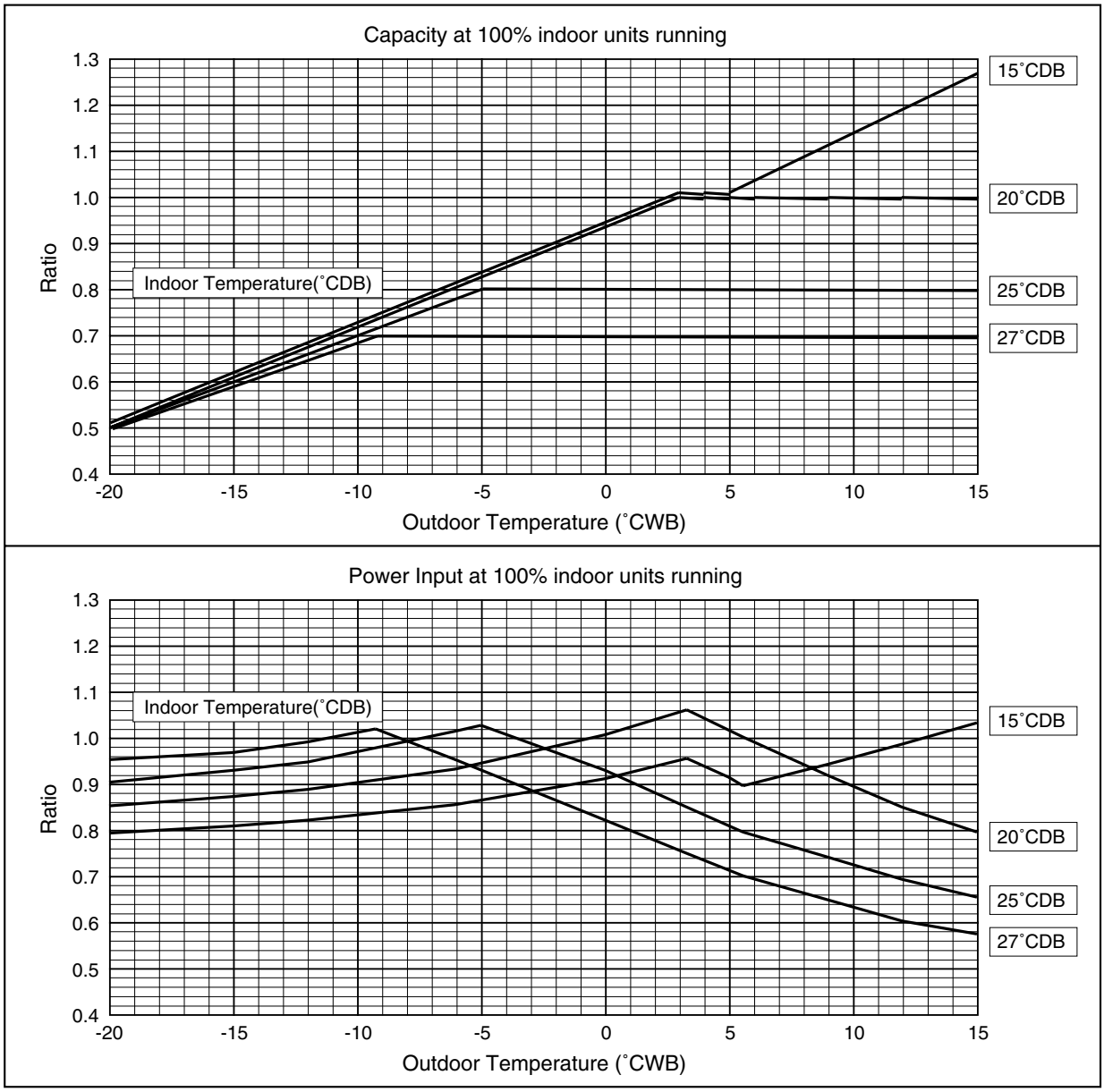
Ref: cap&inpc-p200-250

R2-8-14(R410A)

Heating

• Standard Specifications

		PURY-P200YGM	PURY-P250YGM
Capacity	kW	25.0	31.5
Input	kW	5.98	7.62



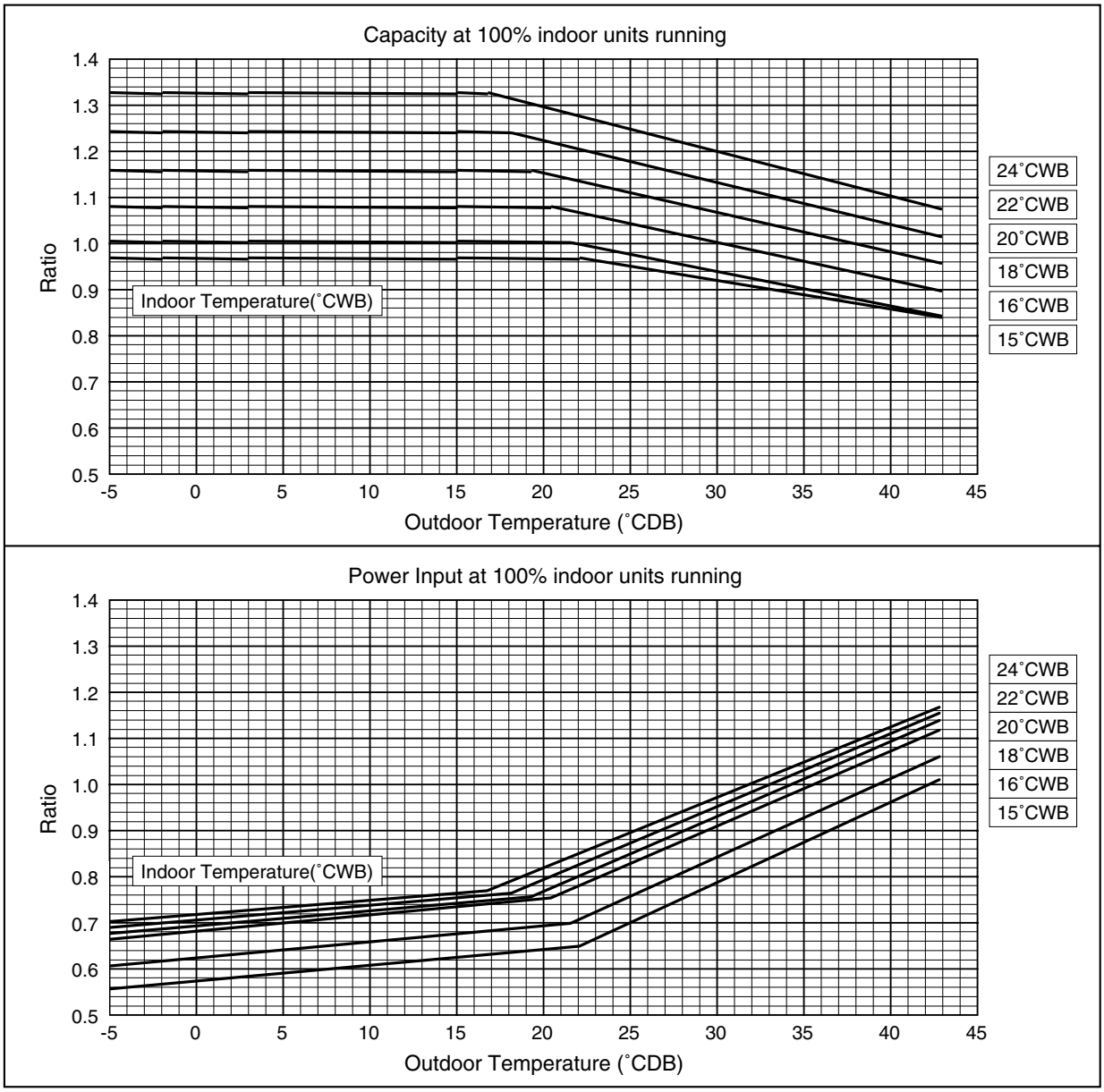
Ref: cap&inph-p200-250

R2-8~14(R410A)

Cooling

• Standard Specifications

		PURY-P300YGM	PURY-P350YGM
Capacity	kW	33.5	40.0
Input	kW	9.57	11.39

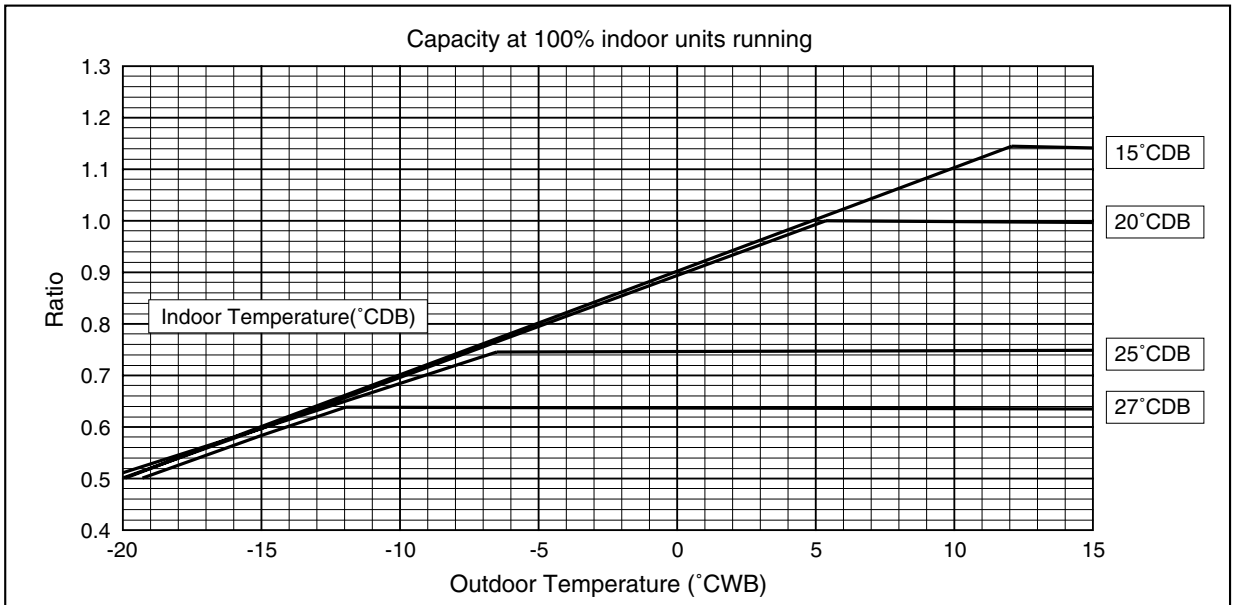


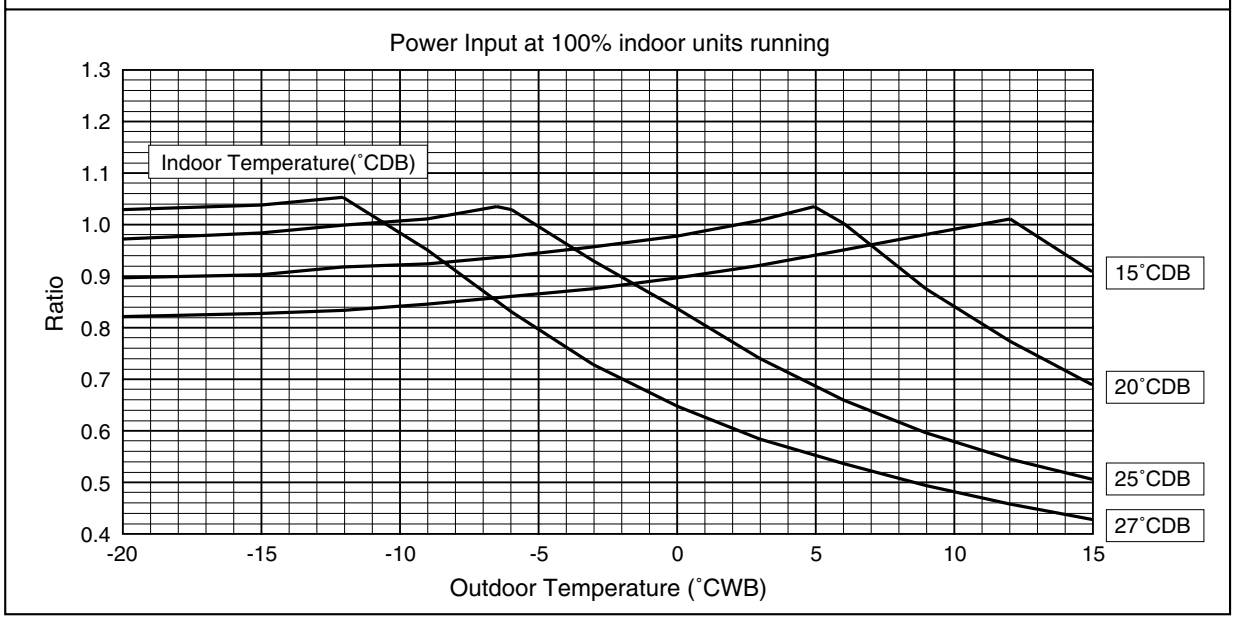
Ref: cap&inpc-p300-400

Heating

• Standard Specifications

		PURY-P300YGM	PURY-P350YGM
Capacity	kW	37.5	45.0
Input	kW	9.10	11.02



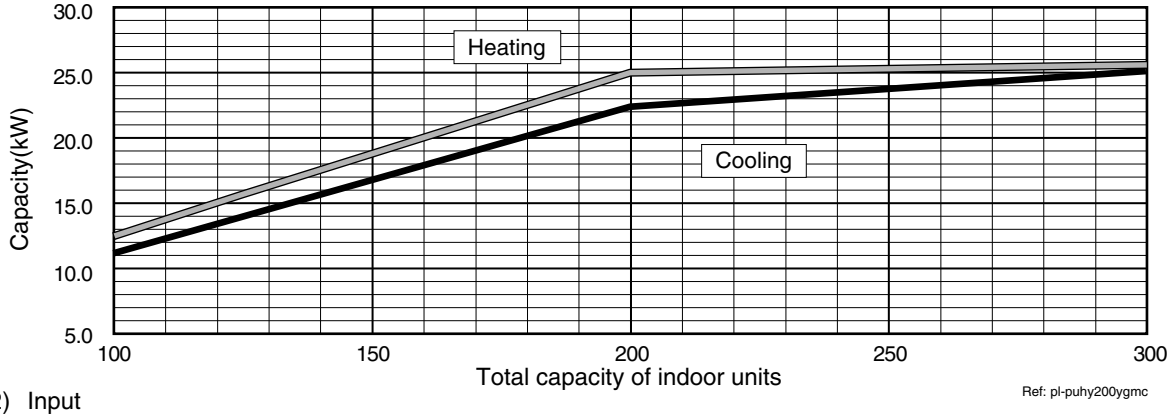


Ref: cap&inph-p300-400

2-2. Correction by total indoor

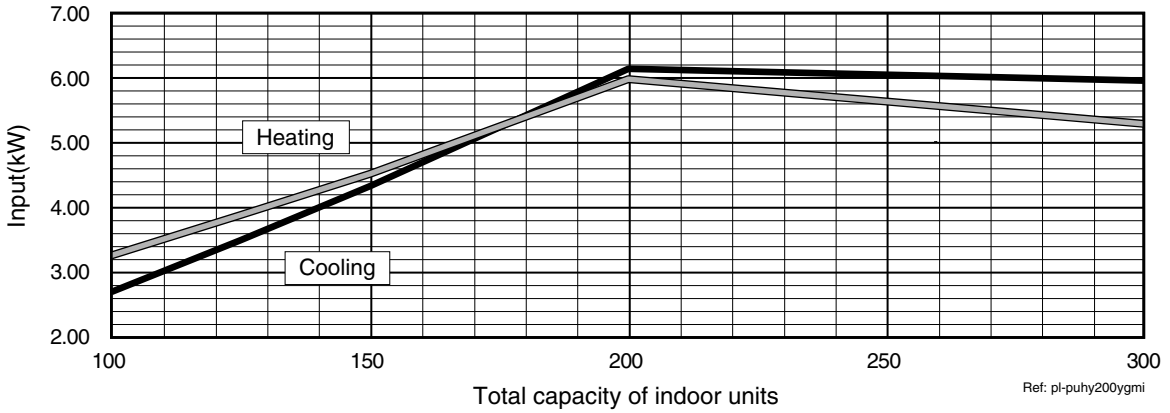
PURY-P200YGM

1) Capacity



Ref: pl-puhy200ygmc

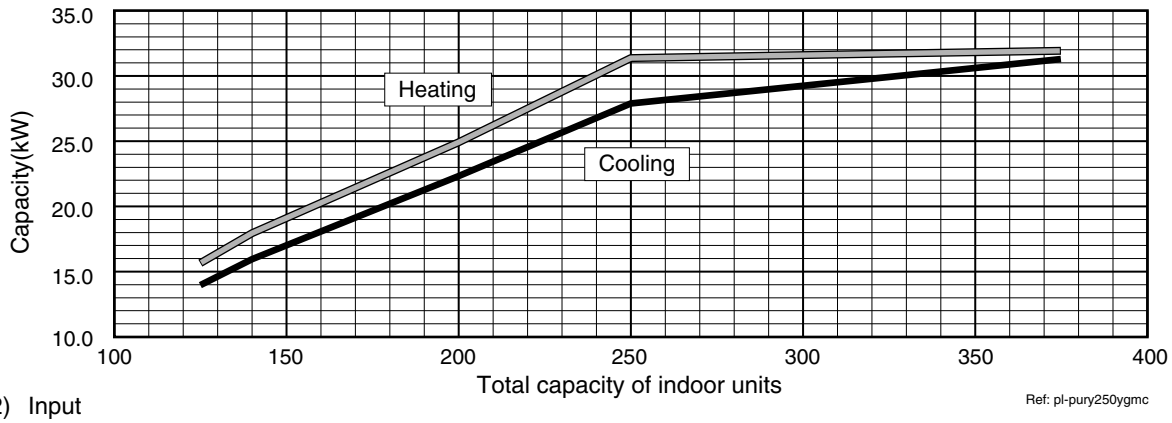
2) Input



Ref: pl-puhy200ygmi

PURY-P250YGM

1) Capacity



Ref: pl-pury250ygmc

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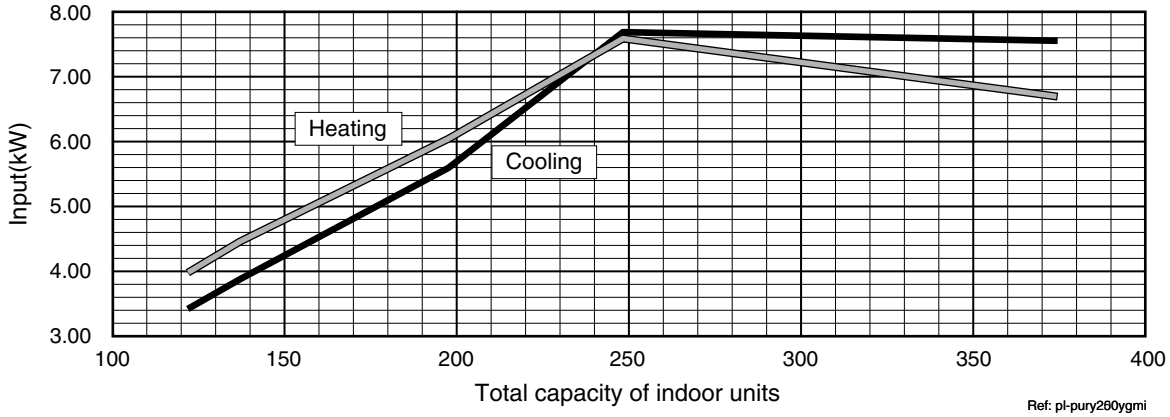
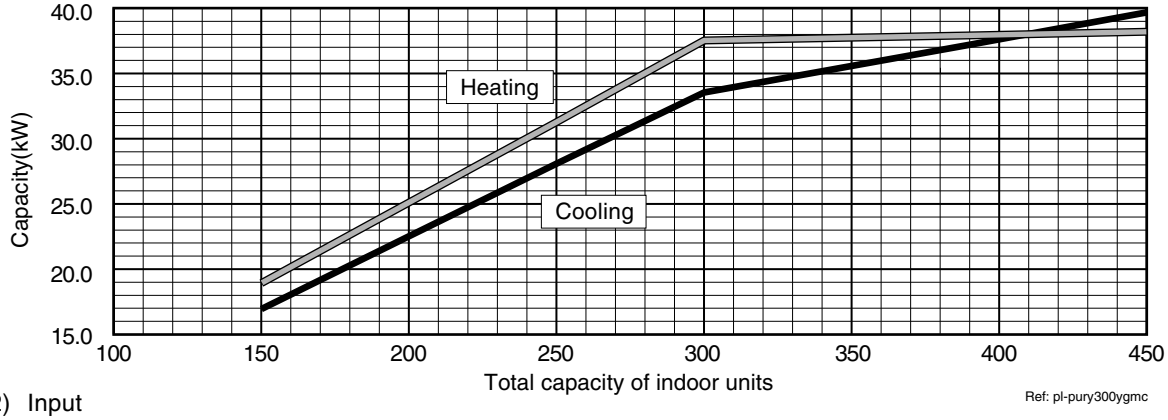


Ref: pl-pury260ygmi

R2-8-14(R410A)

PURY-P300YGM

1) Capacity



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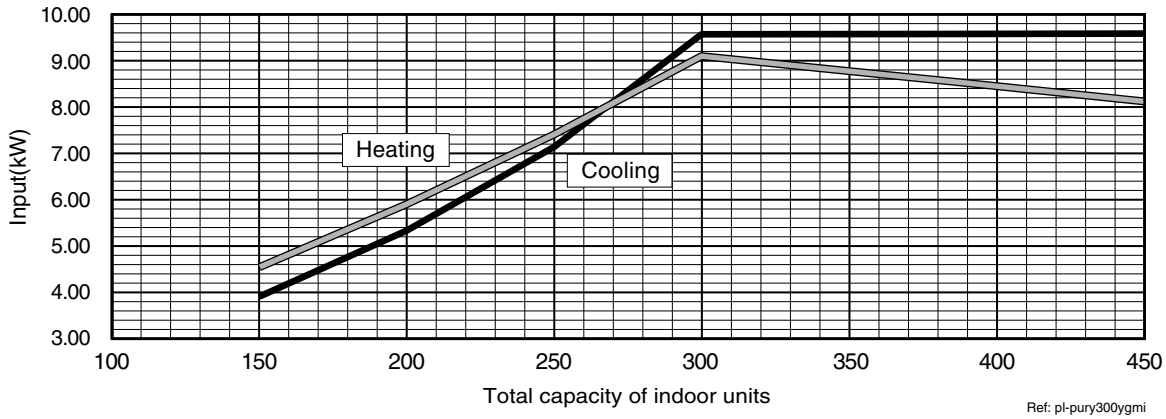
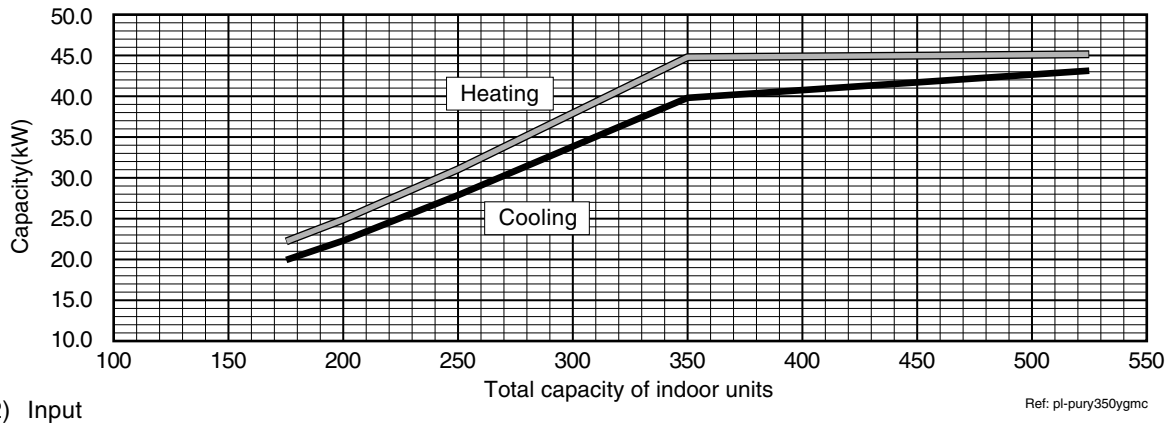


Ref: pl-pury300ygmi

PURY-P350YGM

1) Capacity



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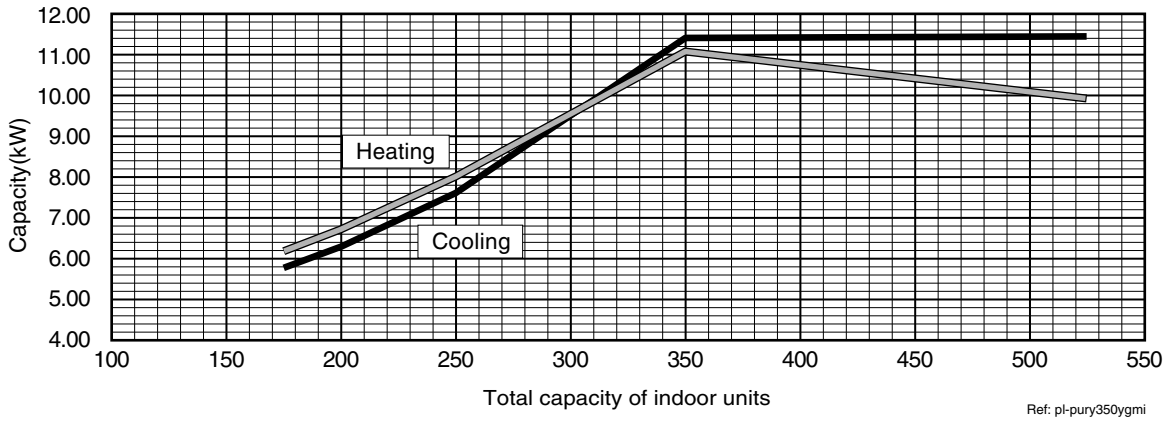
2) Input



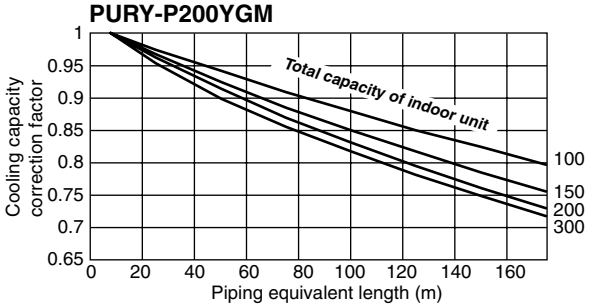
Ref: pl-pury350ygmi

2-3. Correction by refrigerant piping length

Due to the extension of refrigerant piping, a decrease of cooling/heating capacity happens. The actual capacity is considered by multiplying the correction factor according to the equivalent length of the refrigerant piping shown at the table below.

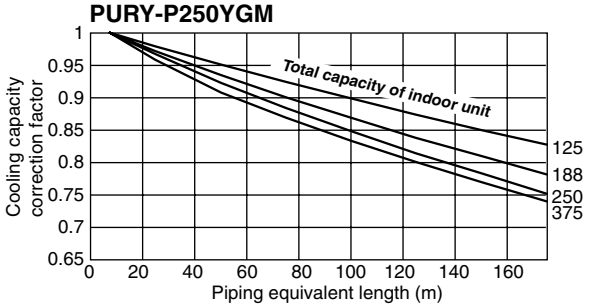
• Cooling capacity correction

PURY-P200YGM



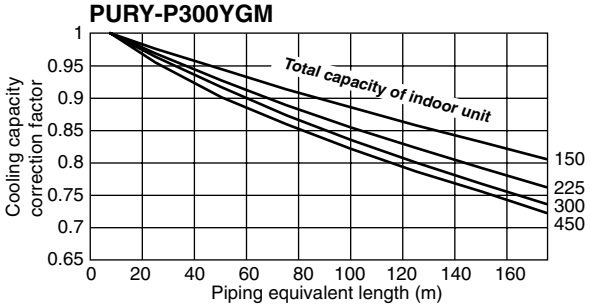
Ref.: crpl-p200ygmc

PURY-P250YGM



Ref.: crpl-p250ygmc

PURY-P300YGM



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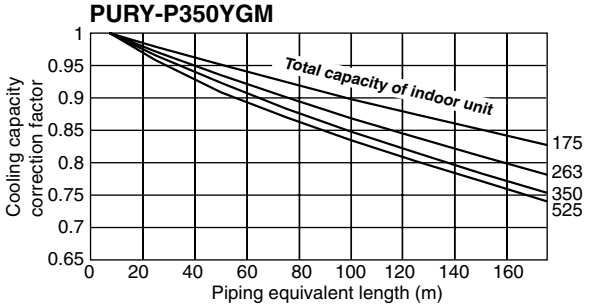
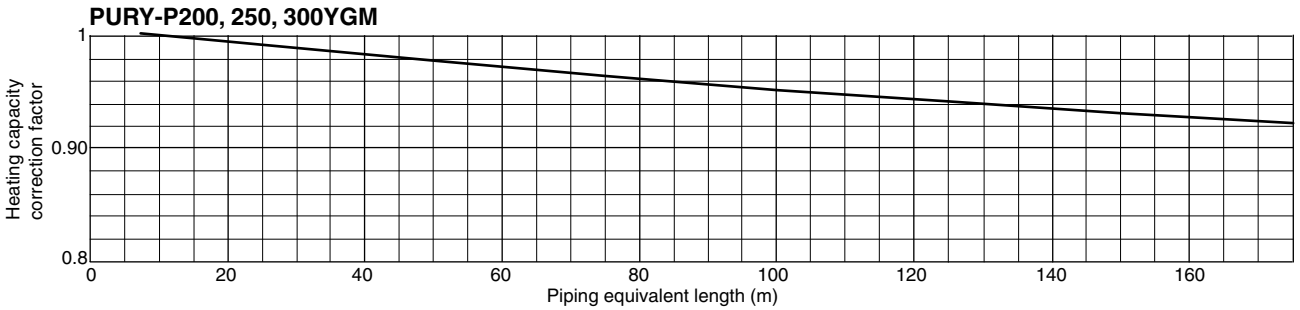
PURY-P350YGM



Ref.: crpl-p350ygmc

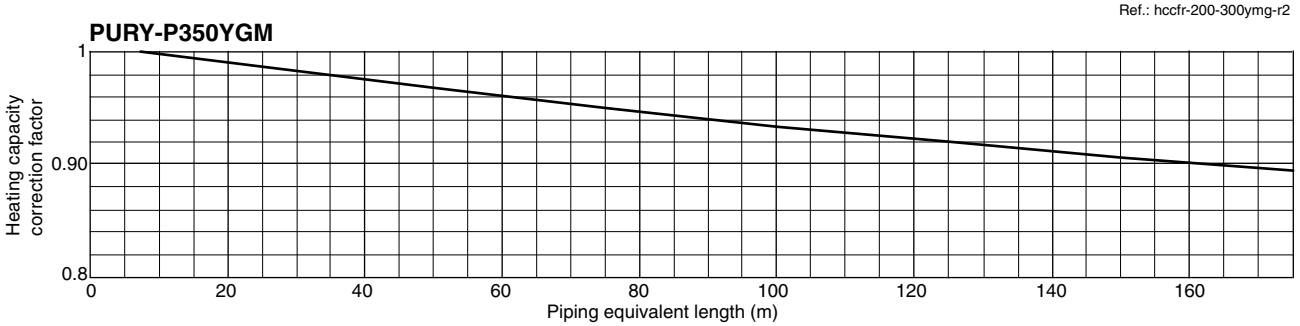
• Heating capacity correction

PURY-P200, 250, 300YGM



Ref.: hccfr-200-300ymg-r2

PURY-P350YGM



Ref.: hccfr-350-400ymg-r2

• How to obtain piping equivalent length

1 **PU(H)Y, PURY-P200YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.35 x number of bent on the piping) m

2 **PU(H)Y, PURY-P250,300YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.42 x number of bent on the piping) m

3 **PU(H)Y, PURY-P350YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.47 x number of bent on the piping) m

4 **PUHY, PURY-P400,450,500,550,600,650YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.50 x number of bent on the piping) m

5 **PUHY-P700,750,800YSGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.70 x number of bent on the piping) m

2-4. Correction at frosting and defrosting

Due to frosting at the outdoor heat exchanger and the automatical defrosting operation, the heating capacity of the outdoor unit should be considered by multiplying the correction factor which shown in the table below.

Table of correction factor

PURY-P200, 250YGM

Outdoor inlet air temp (˚CWB)	6	4	2	1	0	-2	-4	-6	-8	-10	-20
Correction factor	1.0	0.95	0.84	0.83	0.83	0.87	0.90	0.95	0.95	0.95	0.95

Ref.: def-ygmp200-250

PURY-P300YGM

Outdoor inlet air temp (˚CWB)	6	4	2	1	0	-2	-4	-6	-8	-10	-20
Correction factor	1.0	0.93	0.82	0.80	0.82	0.86	0.90	0.90	0.95	0.95	0.95

Ref.: def-ygmp300

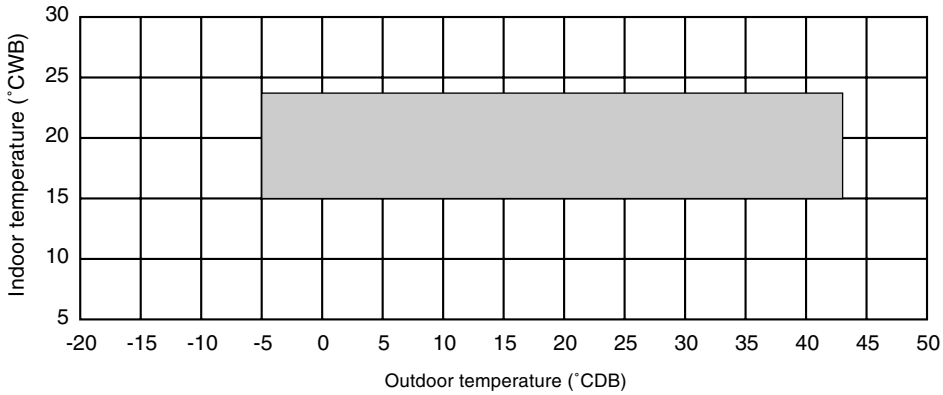
PURY-P350YGM

Outdoor inlet air temp (˚CWB)	6	4	2	1	0	-2	-4	-6	-8	-10	-20
Correction factor	1.0	0.93	0.85	0.83	0.84	0.86	0.90	0.90	0.95	0.95	0.95

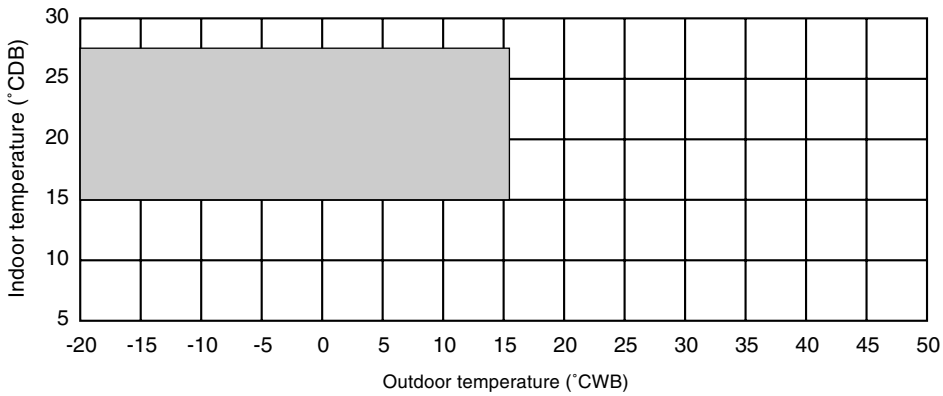
Ref.: def-ygmp350

2-5. Operation limit

• Cooling



• Heating



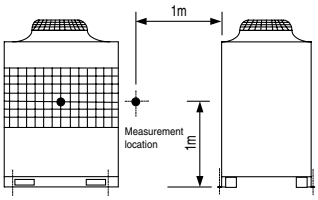
Ref.: ol-ygmr2

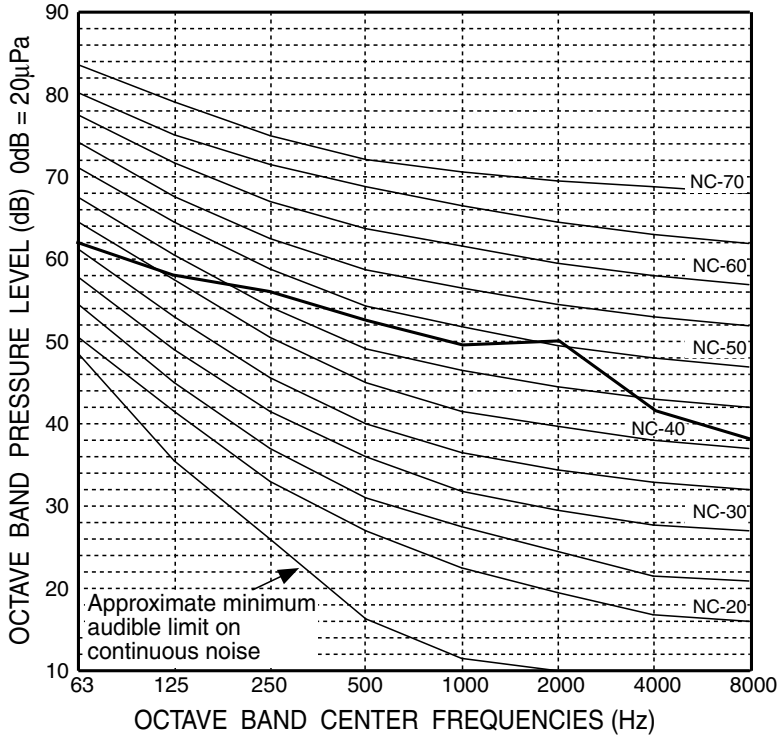
3. Sound Levels

PURY-P200YGM

63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	dB(A)
62	58	56	52.5	49.5	50	41.5	38	56

Measurement condition



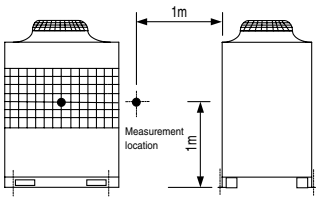


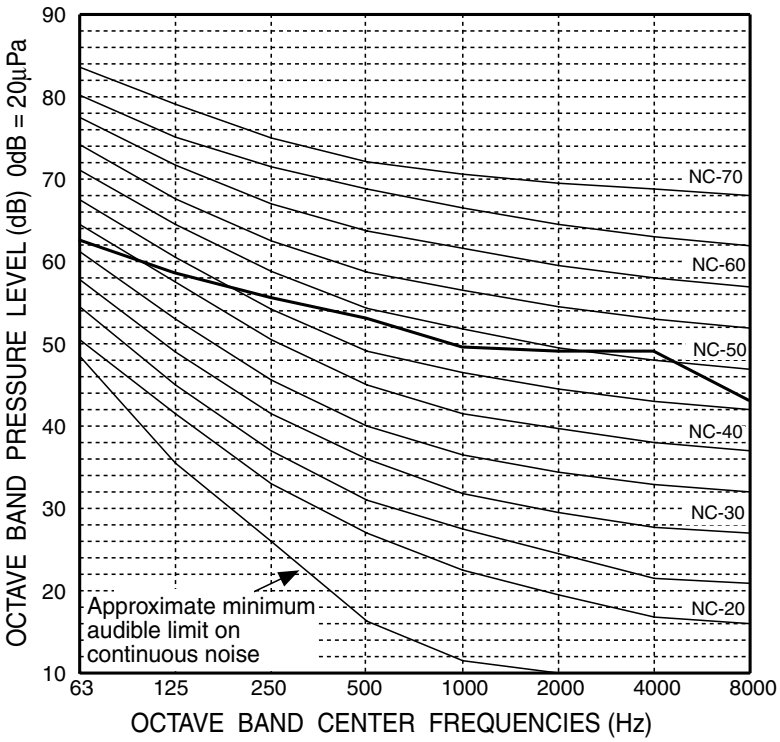
Ref.: r200ygm-WYNB0-3585

PURY-P250YGM

63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	dB(A)
62.5	58.5	55.5	53	49.5	49	49	43	57

Measurement condition



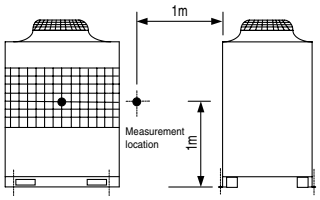


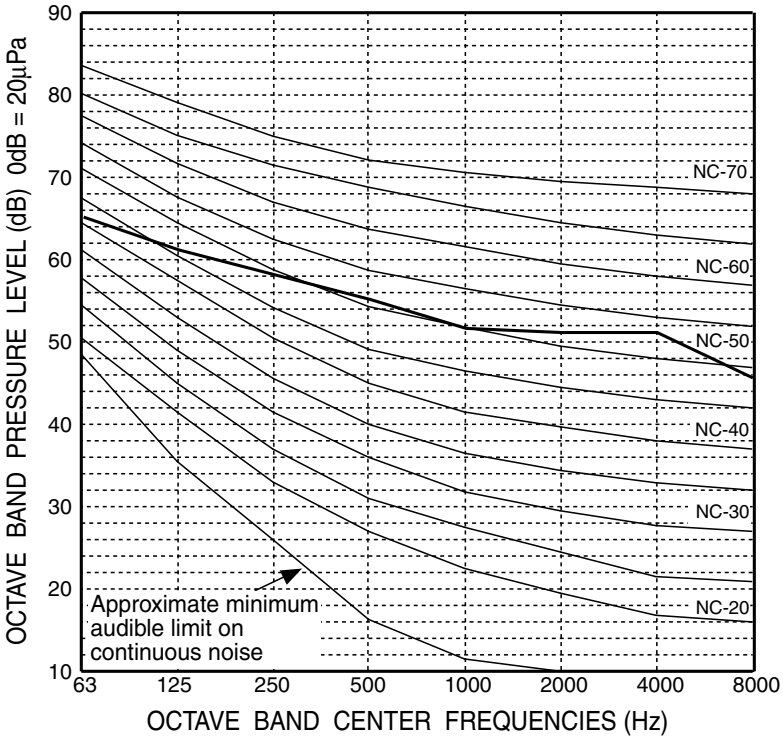
Ref.: r250ygm-WYNB0-3586

PURY-P300YGM

63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	dB(A)
65	61	58	55	51.5	51	51	45.5	59

Measurement condition



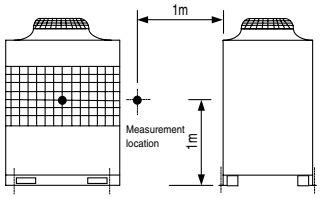


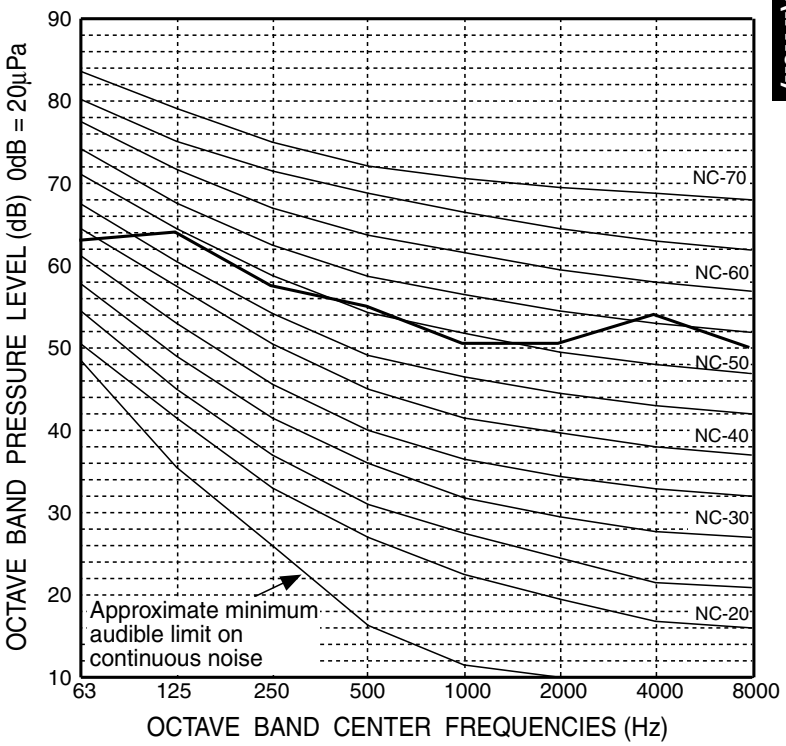
Ref.: r300ygm-WYNB0-3587

PURY-P350YGM

63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	dB(A)
63	64	57.5	55	50.5	50.5	54	50	60

Measurement condition



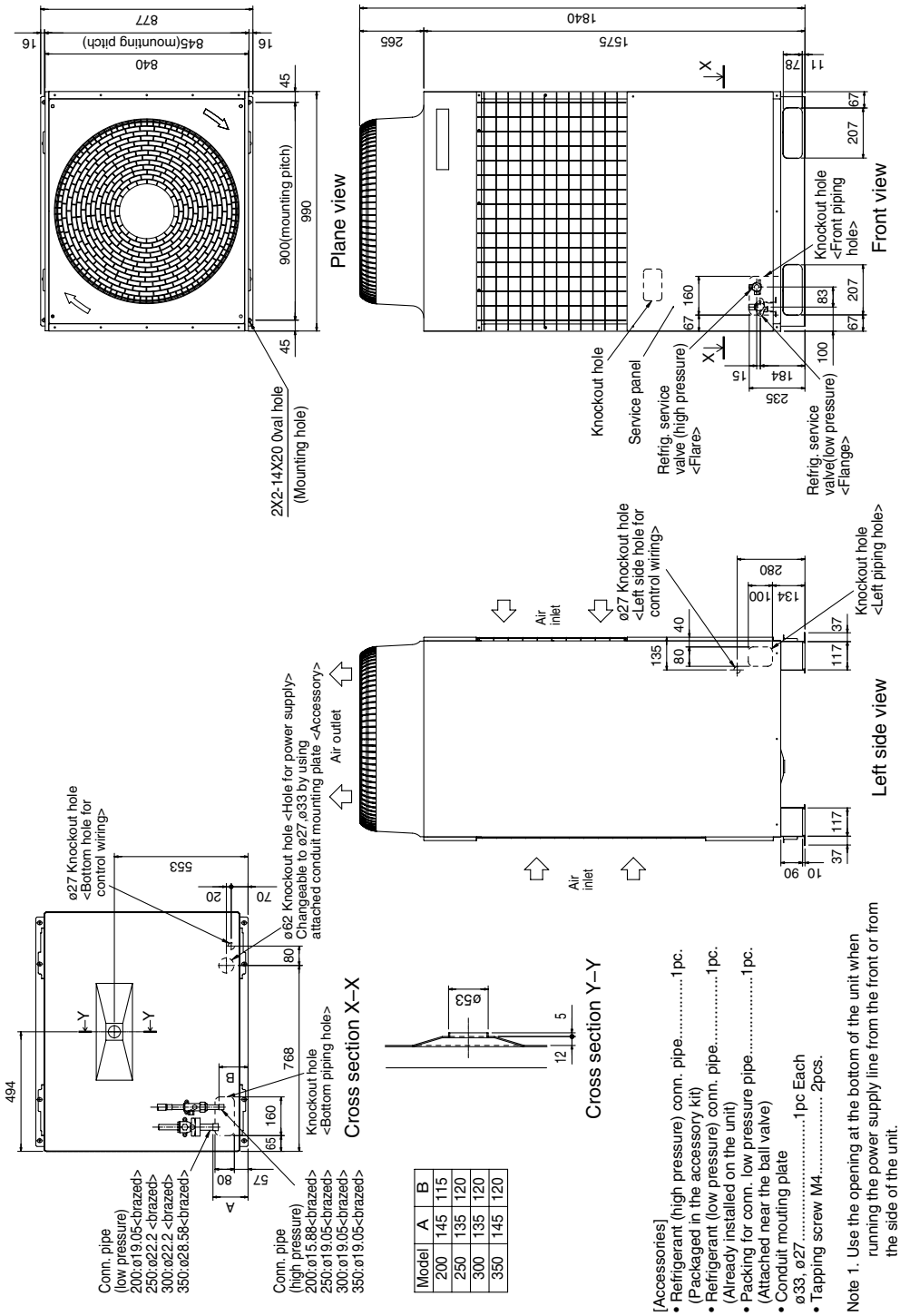


Ref.: r350ygm-WYNB0-3588

4. External Dimensions

PURY-P200,250,300,350YGM-A(-BS)

Unit : mm



Model	A	B
200	145	115
250	135	120
300	135	120
350	145	120

[Accessories]
- Refrigerant (high pressure) conn. pipe.....1pc. (Packaged in the accessory kit)
- Refrigerant (low pressure) conn. pipe.....1pc. (Already installed on the unit)
- Packing for conn. low pressure pipe.....1pc. (Attached near the ball valve)
- Conduit mouting plate ø33, ø27.....1pc Each
- Tapping screw M4.....2pcs.

Note 1. Use the opening at the bottom of the unit when running the power supply line from the front or from the side of the unit.

Note 2. Please refer to the next page for information regarding necessary spacing around the unit and foundation work.

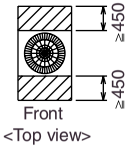
Ref: ygm-W656809 1/2

Spacing of PURY-P200,250,300,350YGM-A(-BS)

1.Space required around unit

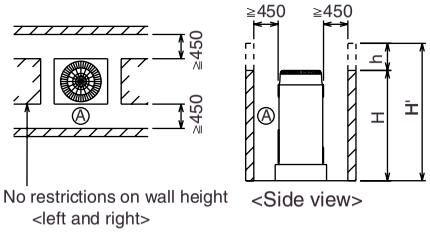
✻ In case of single installation [Basic rules for spacing the unit]

①Since the service from the back of unit is required, provide the back space 450 mm or above as the front.



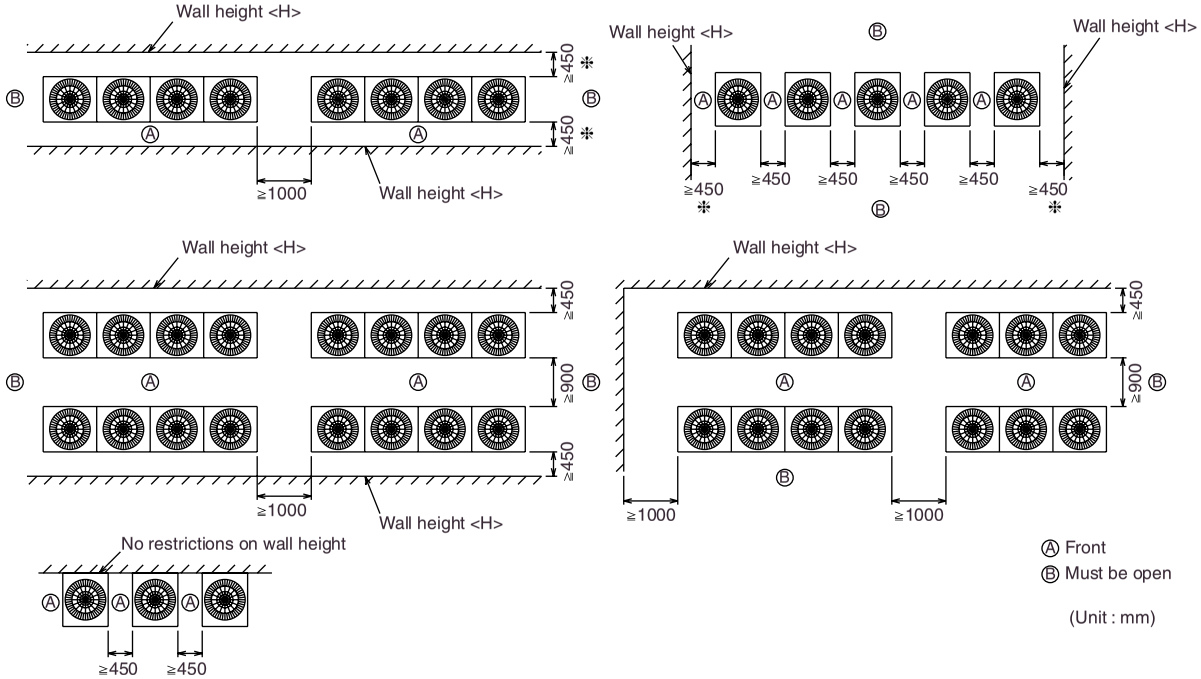
[When inlet air enters from right and left sides of unit]

①Wall heights <H> of the front and the back sides shall be within total height of unit.
②When wall height <H> exceeds total height of unit, add <h> dimension to 450 of the following figure.
h=wall height <H'> -total height of unit.



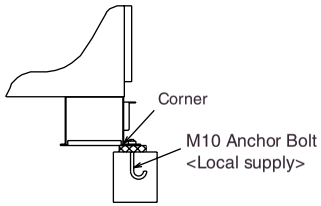
✻ In case of collective installation and continuous installation

①Space required for collective installation and continuous installation:
When installing several units, provide the space between each block considering passage for air and people.
②Open in two directions.
③In case of wall height <H> exceeds total height of unit, add <h> dimension
(h=wall height <H> -total height of unit) to ✻ marked dimension.
④If there is a wall at both the front and the rear of the unit, install up to four units consecutively in the side direction and provide a space of 1000 mm or more as inlet space/passage space for each four units.



2.Foundation work

①When building the foundation, give full attention to the floor strength, drain water disposal <drain water flows out of the unit, during operation>, piping and wiring routes.
②Be sure that the corners are firmly seated. If the corners are not firmly seated, the installation feet may be bent.
③When down piping and down wiring are performed, be sure that foundation and base work does not block the base through holes.



Ref: ygm-W656809 2/2

5. Electrical Wiring Diagram

PURY-P200, 250, 300, 350YGM-A(-BS)

< Symbol explanation >

Symbol	Name
ACCT1	AC Current Sensor
DCCT1 ※3	DC Current Sensor
DCL1	DC reactor (Power factor improvement)
52C1	Magnetic contactor (Inverter main circuit)
MF1	Fan motor (Radiator panel)
CH11	Crank case heater (Compressor)
21S4a	4-way valve
SV1, 2	Solenoid valve (Discharge-suction bypass)
SV4a~d	Solenoid valve (Heat exchanger capacity control)
TH11	Thermistor: Discharge pipe temp. detect
TH5	Thermistor: Pipe temp.detect (Hex outlet)
TH6	Thermistor: OA temp.detect
TH7	Thermistor: liquid outlet temp.detect at Sub-cool coil
THHS1	Radiator panel temp. detect
63H1	High pressure switch
63HS	High pressure sensor
63LS	Low pressure sensor
L1, L2	Choke coil (Transmission)
Z20	Function device
⏚	Earth terminal

< Defference of appliance >

Model name	Appliance
PURY-P200YGM-A	" ※3 " do not exist
PURY-P250, 300, 350, 400YGM-A	All exists

※1 : Function according to switch operation. (SW4-7,CN3D 1-2P, and CN3D 1-3P)

SW4-7:OFF (Compressor ON/OFF and NIGHT MODE)

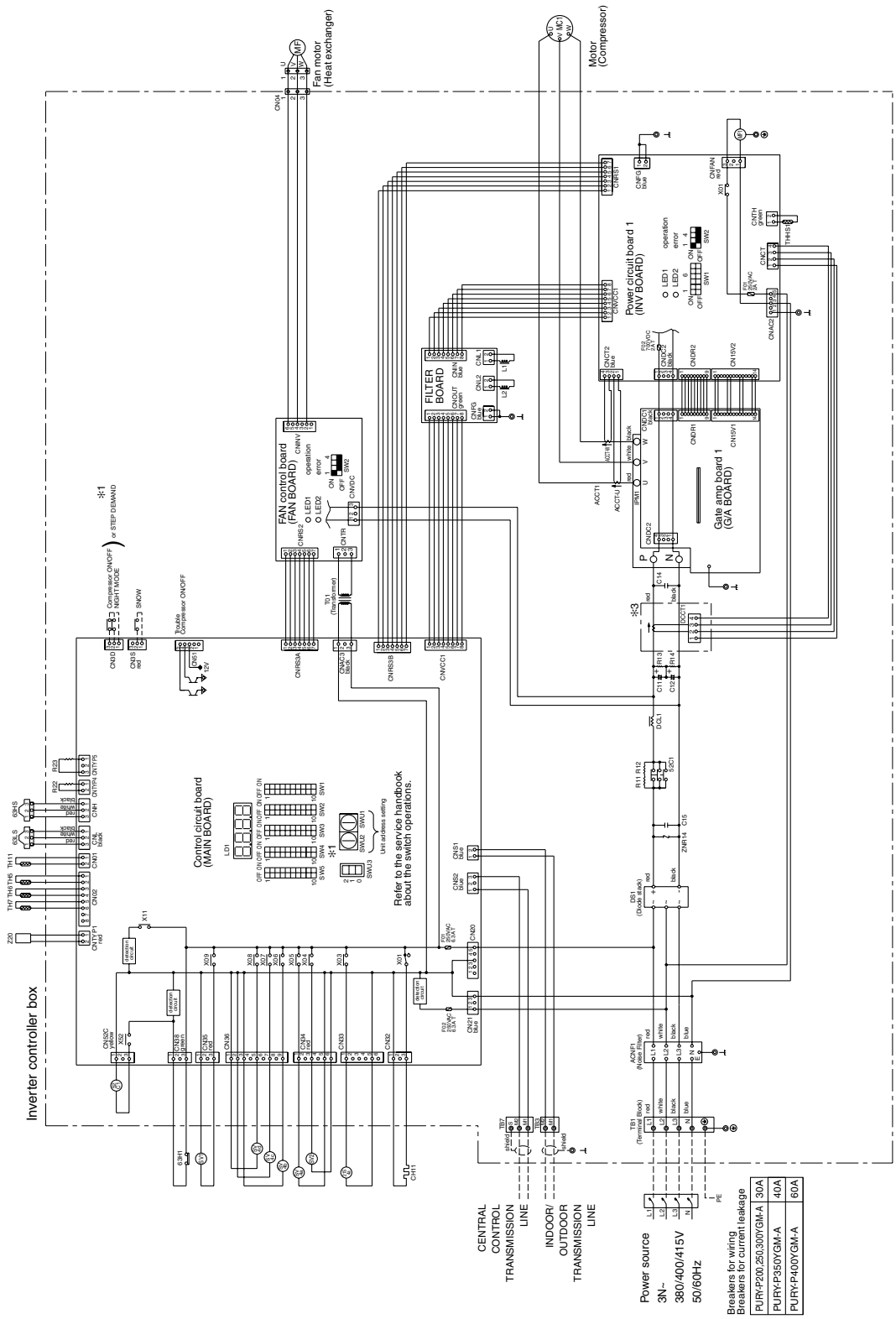
CN3D 1-3P	Compressor ON/OFF
OPEN	ON
SHORT	OFF

CN3D 1-2P	NIGHT MODE
OPEN	OFF
SHORT	ON

SW4-7:ON (STEP DEMAND)

CN3D 1-2P / CN3D 1-3P	OPEN	SHORT
OPEN	100%	75%
SHORT	0%	50%

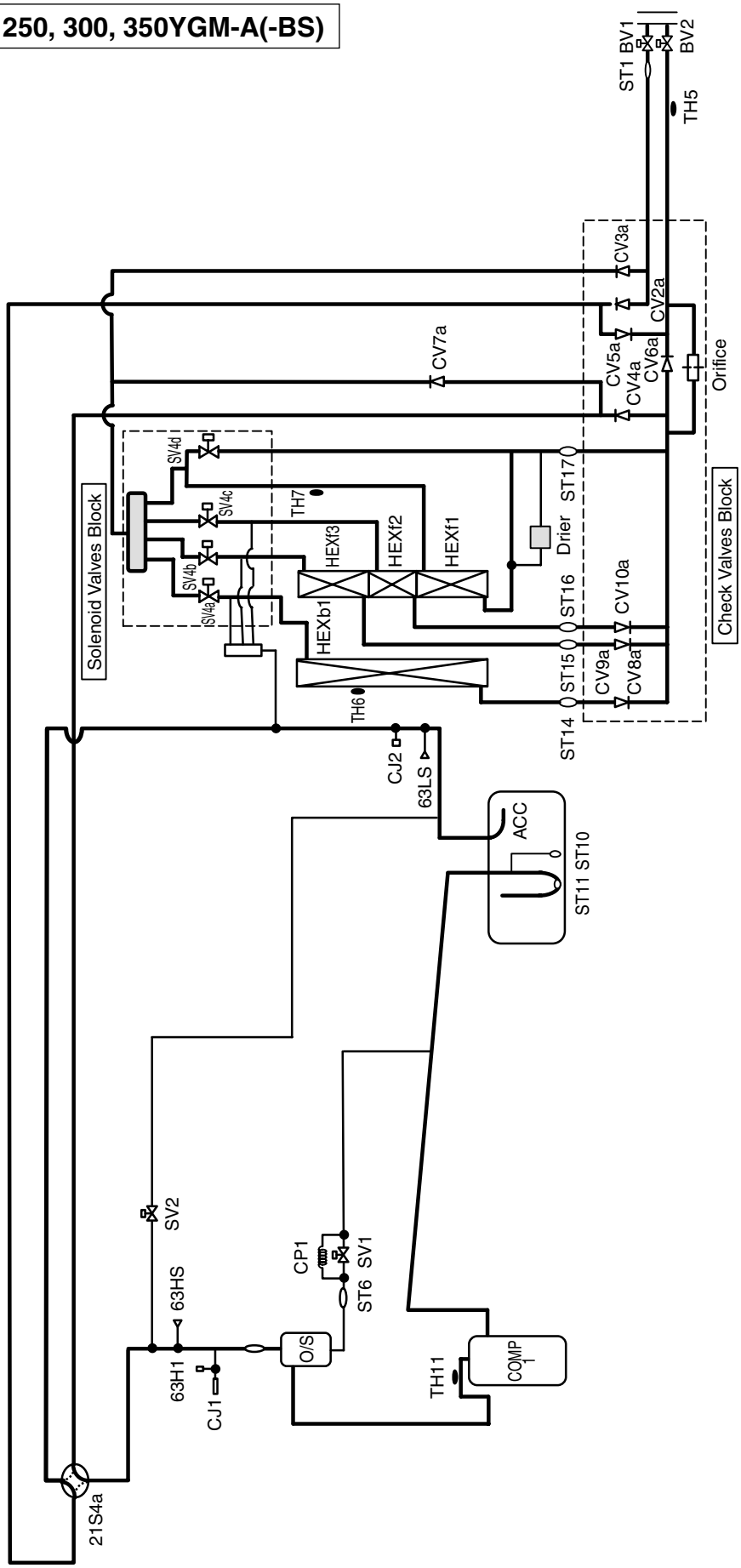
NOTE:The broken lines indicate field wiring.



Ref: R2-p200~400ygm-W274614

R2-8~14(R410A)

PURY-P200, 250, 300, 350YGM-A(-BS)



R2-8~14(R410A)

Ref: rcd-200~400ygm/2

PURY-P400YGM-A (-BS)

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1. Specifications Ⅱ-98

2. Capacity Tables Ⅱ-99
   2-1 Correction by temperature Ⅱ-99
   2-2 Correction by total indoor Ⅱ-101
   2-3 Correction by refrigerant piping length Ⅱ-102
   2-4 Correction at frosting and defrosting Ⅱ-103
   2-5 Operation limit Ⅱ-103

3. Sound Levels Ⅱ-104

4. External Dimensions Ⅱ-105

5. Electrical Wiring Diagram Ⅱ-107

6. Refrigerant Circuit Diagram And Thermal Sensor Ⅱ-108

1. Specifications

Model name			PURY-P400YGM-A (-BS)	
			Cooling	Heating
Capacity	*1 †	kW	45.0	50.0
	*1 †	BTU/h	153,500	170,600
	*1 ††	kcal/h	40,000	-
Power source			3N ~ 380/400/415V 50/60Hz	
Power input		kW	13.42	12.43
Current		A	22.6 / 21.5 / 20.7	20.9 / 19.9 / 19.2
Fan	Type x Quantity		Propeller fan x 1	
	Airflow rate	m^3/min	240	
	Motor output	kW	0.64	
Compressor	Type		Hermetic	
	Motor output	kW	9.7	
	Crankcase heater	kW	0.045 x 1	
Heat exchanger			Salt resistant fin	
Refrigerant / Lubricant			R410A / MEL32	
External finish			Pre-coated galvanized sheets (+ powder coating for –BS type) <MUNSEL 5Y 8/1 or similar>	
External dimension H x W x D		mm	1,840 x 1,290 x 840	
Protection devices	High pressure protection		4.15MPa	
	Compressor		Over current protection / Over heat protection	
	Fan		Thermal switch	
	Inverter		Over current protection / Thermal protection	
Refrigerant piping diameter	High press. pipe		ϕ22.2 Brazed	
	Low press. pipe		ϕ28.58 Brazed	
Indoor unit	Total capacity		50~150% of outdoor unit capacity	
	Model / Quantity		Model P20~P250 / 1~24	
Noise level	*2	dB<A>	61 / 61	
Net weight		kg	291	
Operating temperature range			Cooling	Heating
			Indoor : 15˚CWB ~ 24˚CWB Outdoor: -5˚CDB ~ 43˚CDB	Indoor : 15˚CDB ~ 27˚CDB Outdoor: -20˚CWB ~ 15.5˚CWB

Note: *1. Cooling/Heating capacity indicates the maximum value at operation under the following condition.

† <Cooling> Indoor : 27˚CDB / 19˚CWB Outdoor : 35˚CDB
<Heating> Indoor : 20˚CDB Outdoor : 7˚CDB / 6˚CWB
Pipe length : 7.5m Height difference : 0m

†† <Cooling> Indoor : 27˚CDB / 19.5˚CWB Outdoor : 35˚CDB
Pipe length : 5m Height difference : 0m

*2. It is measured in anechoic room.

** Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.

Ref.: M-WYNCO-6911&6921

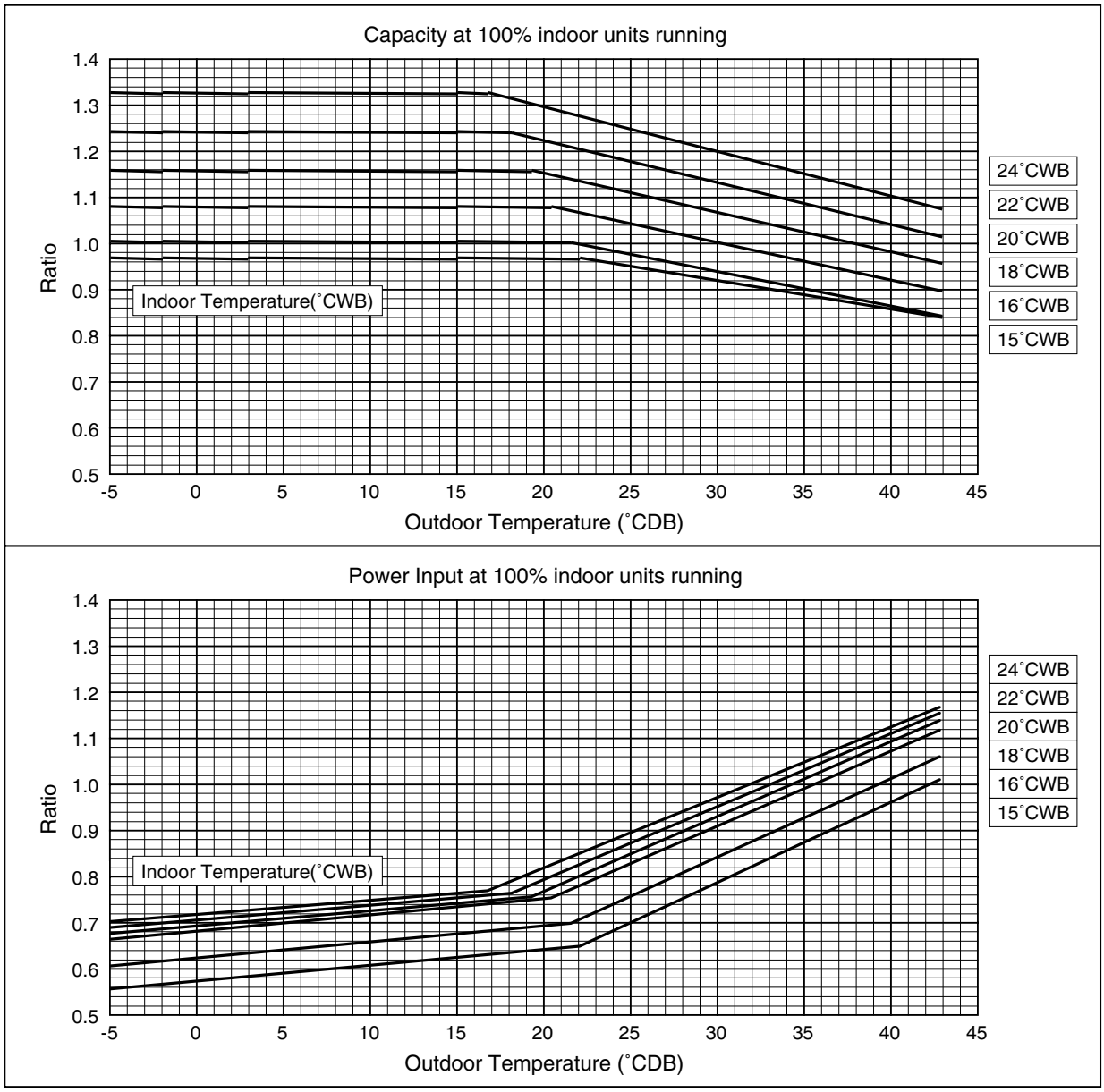
R2-16(R410A)

2. Capacity Table

Cooling

• Standard Specifications

		PURY-P400YGM
Capacity	kW	45.0
Input	kW	13.42



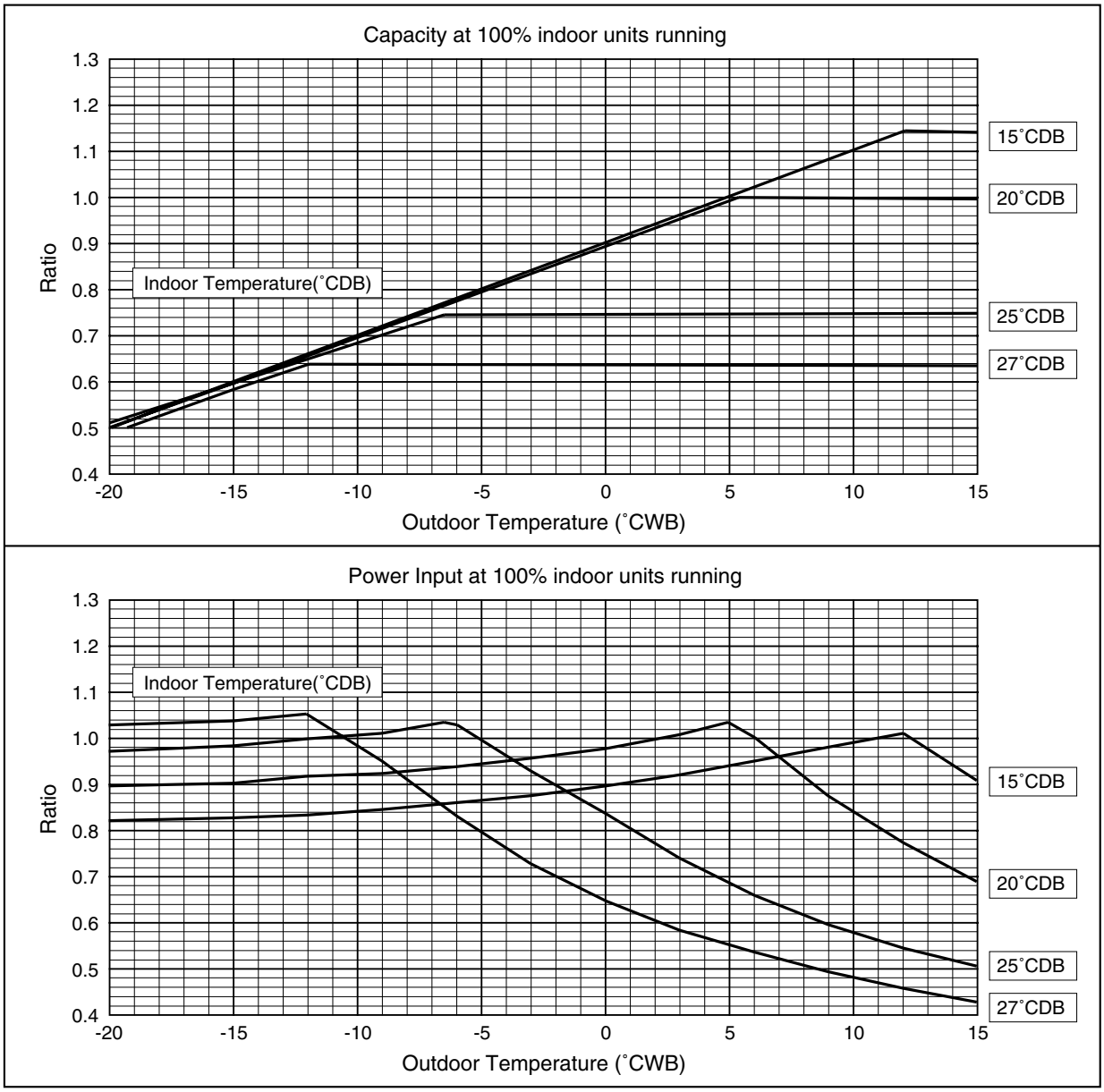
Ref: cap&inpc-p300-400

R2-16(R410A)

Heating

• Standard Specifications

		PURY-P400YGM
Capacity	kW	50.0
Input	kW	12.43



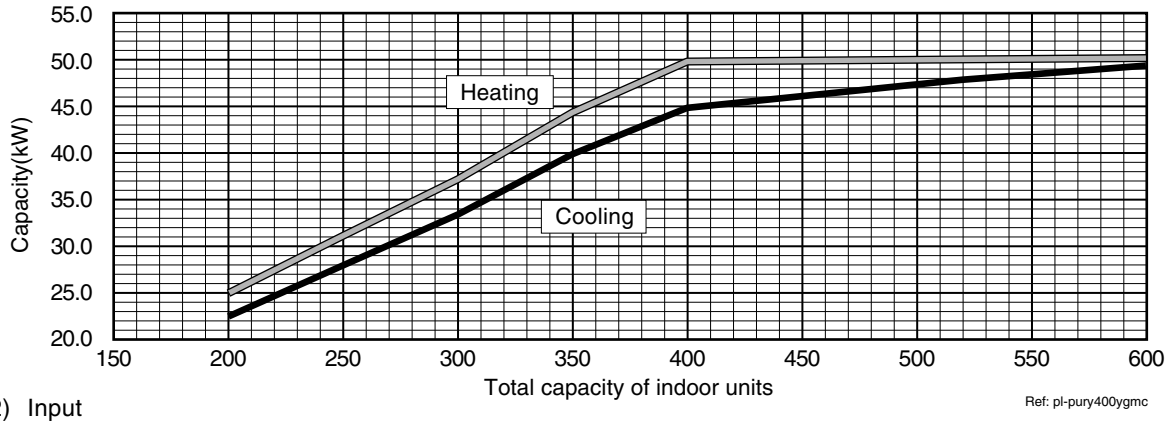
Ref: cap&inph-p300-400

R2-16(R410A)

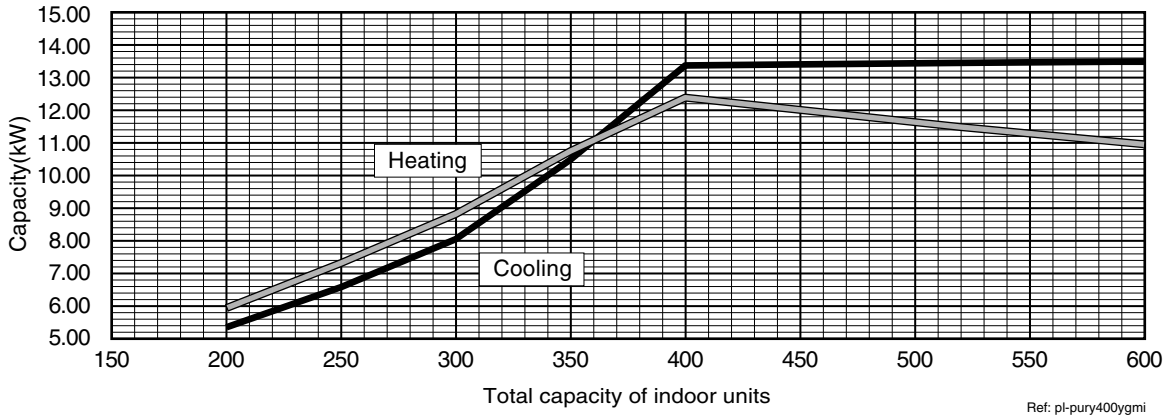
2-2. Correction by total indoor

PURY-P400YGM

1) Capacity



2) Input

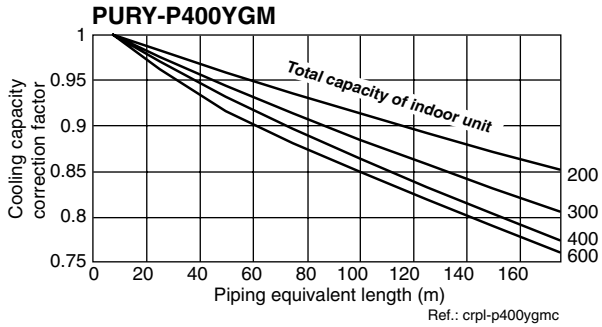


R2-16(R410A)

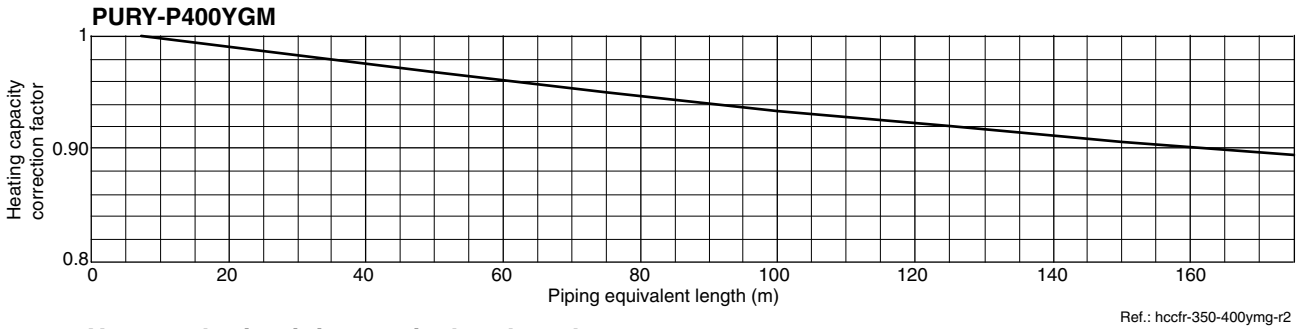
2-3. Correction by refrigerant piping length

Due to the extension of refrigerant piping, a decrease of cooling/heating capacity happens. The actual capacity is considered by multiplying the correction factor according to the equivalent length of the refrigerant piping shown at the table below.

• Cooling capacity correction



• Heating capacity correction



• How to obtain piping equivalent length

1 **PU(H)Y, PURY-P200YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.35 x number of bent on the piping) m

2 **PU(H)Y, PURY-P250,300YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.42 x number of bent on the piping) m

3 **PU(H)Y, PURY-P350YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.47 x number of bent on the piping) m

4 **PUHY, PURY-P400,450,500,550,600,650YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.50 x number of bent on the piping) m

5 **PUHY-P700,750,800YSGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.70 x number of bent on the piping) m

2-4. Correction at frosting and defrosting

Due to frosting at the outdoor heat exchanger and the automatical defrosting operation, the heating capacity of the outdoor unit should be considered by multiplying the correction factor which shown in the table below.

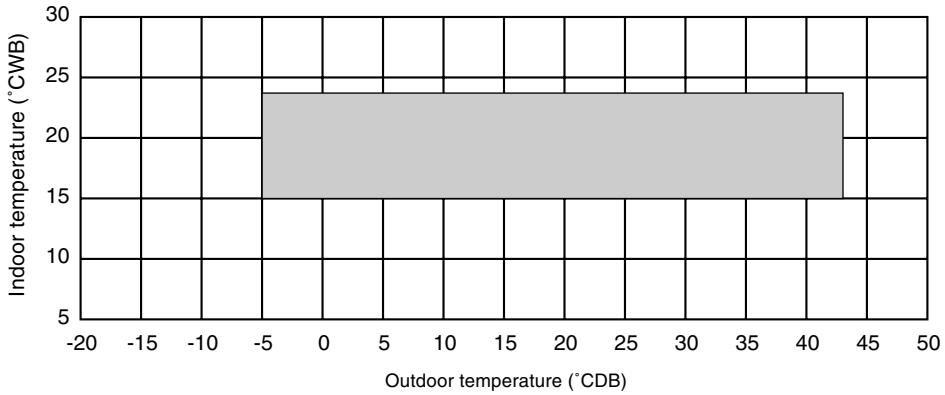
Table of correction factor

Outdoor inlet air temp (˚CWB)	6	4	2	1	0	-2	-4	-6	-8	-10	-20
Correction factor	1.0	0.95	0.90	0.87	0.88	0.89	0.90	0.95	0.95	0.95	0.95

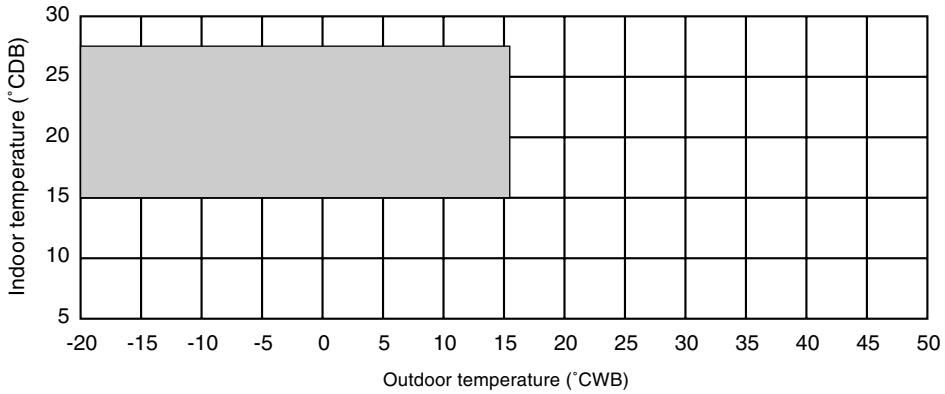
Ref.: def-ygmp400

2-5. Operation limit

• Cooling



• Heating



Ref.: ol-ygmr2

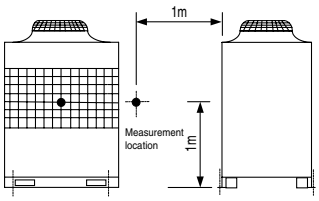
R2-16(R410A)

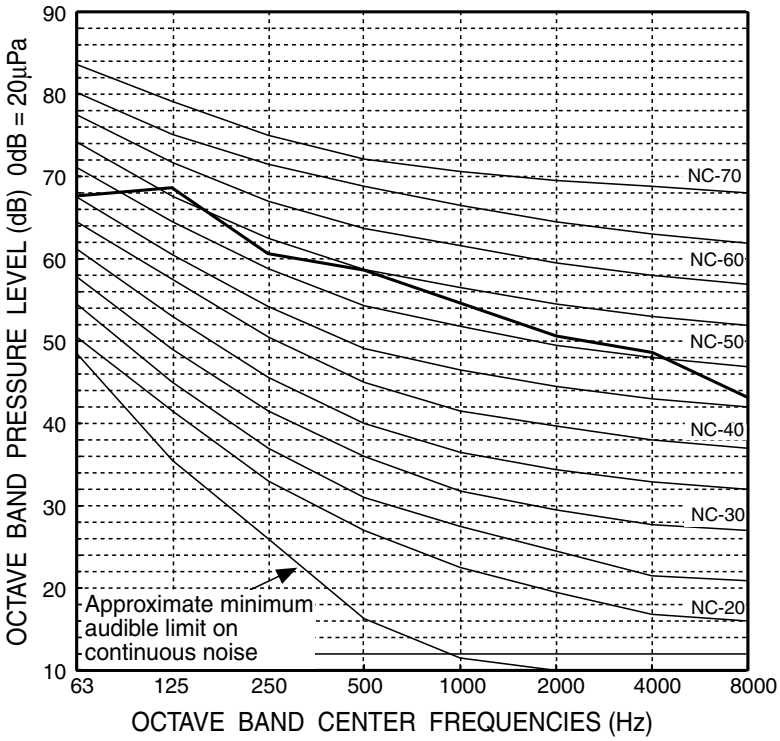
3. Sound Levels

PURY-P400YGM

63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	dB(A)
67.5	68.5	60.05	58.5	54.5	50.5	48.5	43	61

Measurement condition





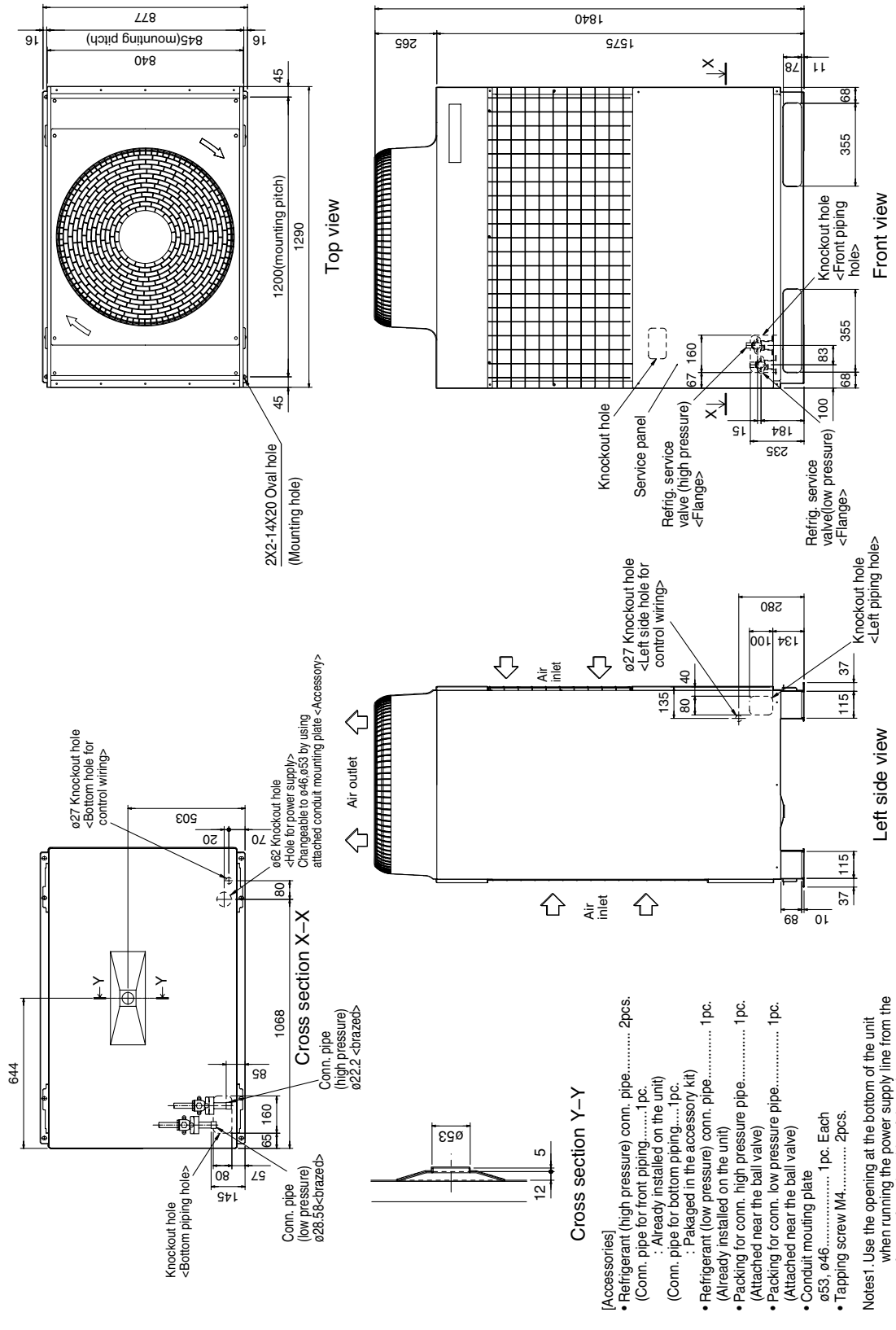
Ref.: r400ygm-WYNB0-3589

R2-16(R410A)

4. External Dimensions

PURY-P400YGM-A(-BS)

Unit : mm



[Accessories]
- Refrigerant (high pressure) conn. pipe..... 2pcs.
  (Conn. pipe for front piping.....1pc.
  : Already installed on the unit)
  (Conn. pipe for bottom piping.....1pc.
  : Pakaged in the accessory kit)
- Refrigerant (low pressure) conn. pipe..... 1pc.
  (Already installed on the unit)
- Packing for conn. high pressure pipe..... 1pc.
  (Attached near the ball valve)
- Packing for conn. low pressure pipe..... 1pc.
  (Attached near the ball valve)
- Conduit mouting plate
  ø53, ø46..... 1pc. Each
- Tapping screw M4..... 2pcs.

Notes1. Use the opening at the bottom of the unit when running the power supply line from the front or from the side of the unit.

Notes2. Please refer to the next page for information regarding necessary spacing around the unit and foundation work.

Ref: ygm-W656810 1/2

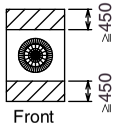
R2-16(R410A)

Spacing of PURY-P400YGM-A(-BS)

1.Space required around unit

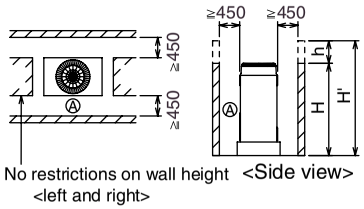
✻ In case of single installation [Basic rules for spacing the unit]

①Since the service from the back of unit is required, provide the back space 450 mm or above as the front.



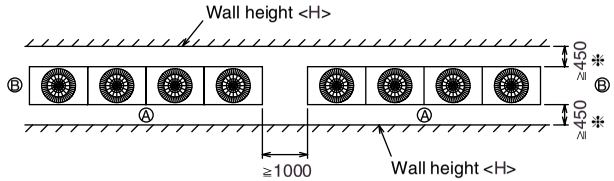
[When inlet air enters from right and left sides of unit]

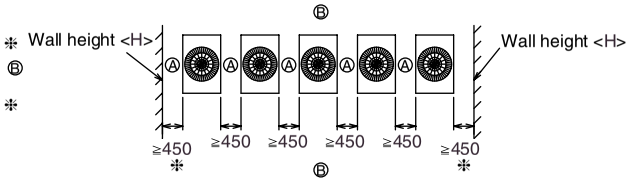
①Wall heights <H> of the front and the back sides shall be within total height of unit.
②When wall height <H> exceeds total height of unit, add <h> dimension to 450 of the following figure.
h=wall height <H'> -total height of unit.

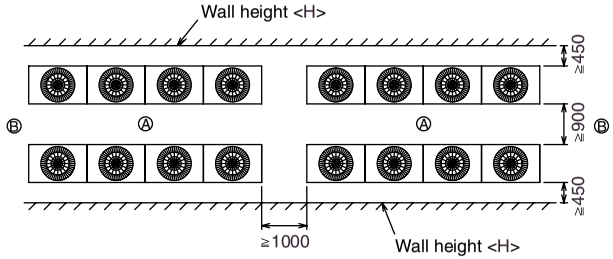


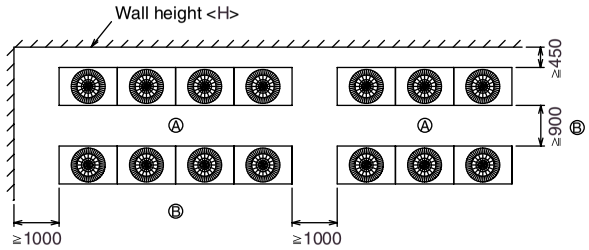
✻ In case of collective installation and continuous installation

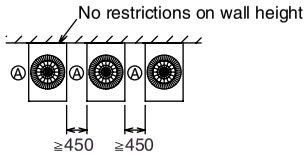
①Space required for collective installation and continuous installation:
When installing several units, provide the space between each block considering passage for air and people.
②Open in two directions.
③In case of wall height <H> exceeds total height of unit, add <h> dimension (h=wall height <H> -total height of unit) to ✻ marked dimension.
④If there is a wall at both the front and the rear of the unit, install up to four units consecutively in the side direction and provide a space of 1000 mm or more as inlet space/passage space for each four units.









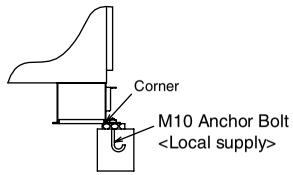


Ⓐ Front
Ⓑ Must be open

(Unit : mm)

2.Foundation work

①When building the foundation, give full attention to the floor strength, drain water disposal <drain water flows out of the unit, during operation>, piping and wiring routes.
②Be sure that the corners are firmly seated.If the corners are not firmly seated, the installation feet may be bent.
③When down piping and down wiring are performed, be sure that foundation and base work does not block the base through holes.



Ref: ygm-W656810 2/2

5. Electrical Wiring Diagram

PURY-P400YGM-A(-BS)

< Symbol explanation >

Symbol	Name
ACCT1	AC Current Sensor
DCCT1 ※3	DC Current Sensor
DCL1	DC reactor (Power factor improvement)
52C1	Magnetic contactor (Inverter main circuit)
MF1	Fan motor (Radiator panel)
CH11	Crank case heater (Compressor)
21S4a	4-way valve
SV1, 2	Solenoid valve (Discharge-suction bypass)
SV4a-d	Solenoid valve (Heat exchanger capacity control)
TH11	Thermistor: Discharge pipe temp. detect
TH5	Thermistor: Pipe temp.detect (Hex outlet)
TH6	Thermistor: OA temp.detect
TH7	Thermistor: liquid outlet temp.detect at Sub-cool coil
THHS1	Thermistor: Radiator panel temp. detect
63H1	High pressure switch
63HS	High pressure sensor
63LS	Low pressure sensor
L1, L2	Choke coil (Transmission)
Z20	Function device
⏚	Earth terminal

< Defference of appliance >

Model name	Appliance
PURY-P200YGM-A	" ※3 " do not exist
PURY-P250, 300, 350, 400YGM-A	All exists

※1: Function according to switch operation. (SW4-7,CN3D 1-2P, and CN3D 1-3P)

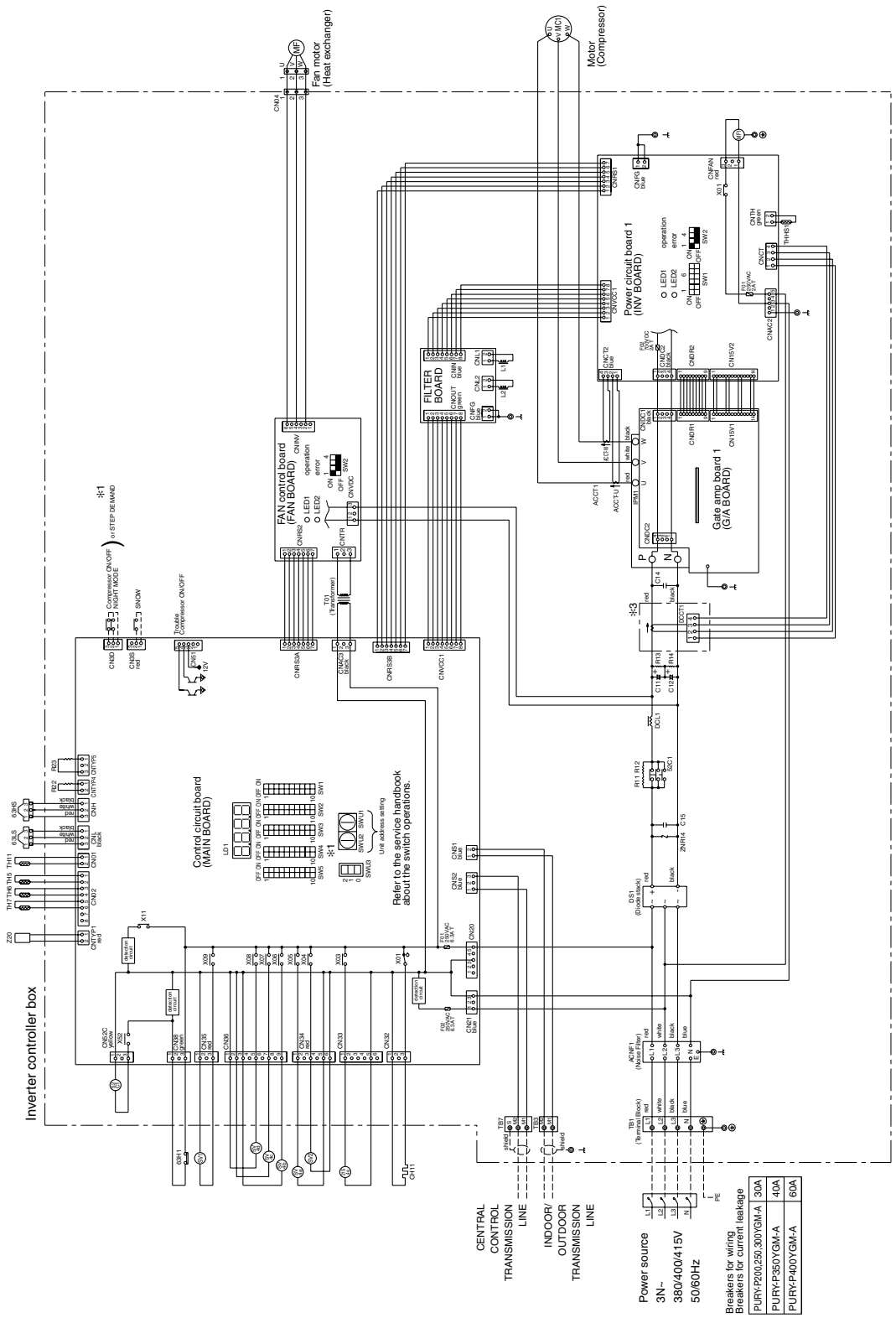
SW4-7:OFF (Compressor ON/OFF and NIGHT MODE)

CN3D 1-3P	Compressor ON/OFF	CN3D 1-2P	NIGHT MODE
OPEN	ON	OPEN	OFF
SHORT	OFF	SHORT	ON

SW4-7:ON (STEP DEMAND)

CN3D 1-2P / CN3D 1-3P	OPEN	SHORT
OPEN	100%	75%
SHORT	0%	50%

NOTE:The broken lines indicate field wiring.

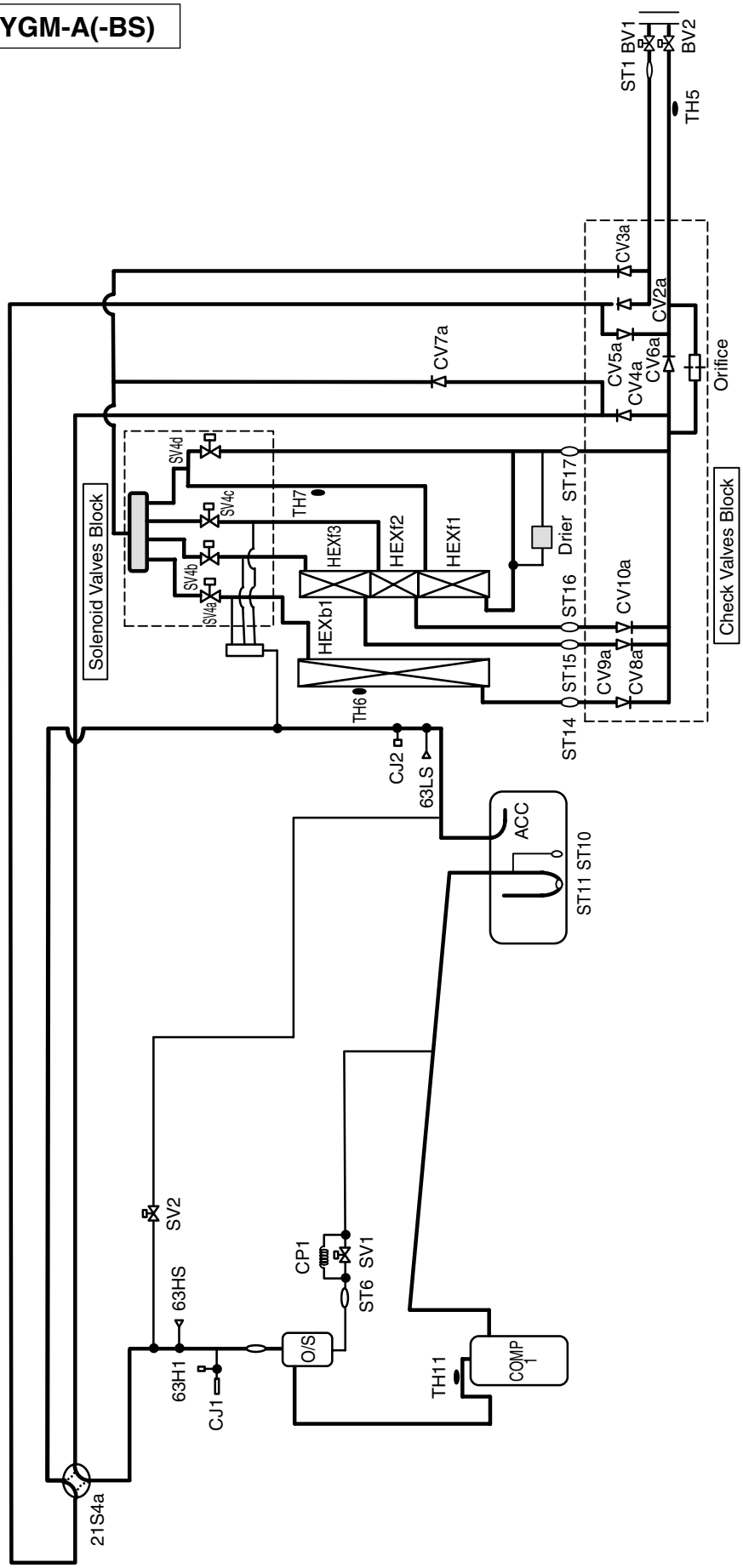


R2-16(R410A)

Ref: R2-p200~400ygm-W274614

6. Refrigerant Circuit Diagram And Thermal Sensor

PURY-P400YGM-A(-BS)



aRef: rcd-200~400ygmr2

R2-16(R410A)

PURY-P450·500·550·600·650YGM-A (-BS)

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6. Refrigerant Circuit Diagram And Thermal Sensor Ⅱ-128

1. Specifications

Model name			PURY-P450YGM-A (-BS)	
			Cooling	Heating
Capacity	*1 †	kW	50.0	56.0
	*1 †	BTU/h	170,600	191,100
	*1 ††	kcal/h	45,000	-
Power source			3N ~ 380/400/415V 50/60Hz	
Power input		kW	13.61	13.86
Current		A	22.9 / 21.8 / 21.0	23.3 / 22.2 / 21.4
Fan	Type x Quantity		Propeller fan x 2	
	Airflow rate	m^3/min	400	
	Motor output	kW	0.38 x 2	
Compressor	Type		Hermetic	
	Motor output	kW	6.8 + 5.3	
	Crankcase heater	kW	0.045 x 2	
Heat exchanger			Salt resistant fin	
Refrigerant / Lubricant			R410A / MEL32	
External finish			Pre-coated galvanized sheets (+ powder coating for –BS type) <MUNSEL 5Y 8/1 or similar>	
External dimension H x W x D		mm	1,840 x 1,990 x 840	
Protection devices	High pressure protection		4.15MPa	
	Compressor		Over current protection / Over heat protection	
	Fan		Thermal switch	
	Inverter		Over current protection / Thermal protection	
Refrigerant piping diameter	High press. pipe		ϕ22.2 Brazed	
	Low press. pipe		ϕ28.58 Brazed	
Indoor unit	Total capacity		50~150% of outdoor unit capacity	
	Model / Quantity		Model P20~P250 / 1~24	
Noise level	*2	dB<A>	60 / 61	
Net weight		kg	481	
Operating temperature range			Cooling	Heating
			Indoor : 15˚CWB ~ 24˚CWB Outdoor: -5˚CDB ~ 43˚CDB	Indoor : 15˚CDB ~ 27˚CDB Outdoor: -20˚CWB ~ 15.5˚CWB

Note: *1. Cooling/Heating capacity indicates the maximum value at operation under the following condition.

† <Cooling> Indoor : 27˚CDB / 19˚CWB Outdoor : 35˚CDB
<Heating> Indoor : 20˚CDB Outdoor : 7˚CDB / 6˚CWB
Pipe length : 7.5m Height difference : 0m

†† <Cooling> Indoor : 27˚CDB / 19.5˚CWB Outdoor : 35˚CDB
Pipe length : 5m Height difference : 0m

*2. It is measured in anechoic room.

** Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.

Ref.: M-WYNCO-6912&6922

R2-18~26(R410A)

Model name			PURY-P500YGM-A (-BS)	
			Cooling	Heating
Capacity	*1 †	kW	56.0	63.0
	*1 †	BTU/h	191,100	215,000
	*1 ††	kcal/h	50,000	-
Power source			3N ~ 380/400/415V 50/60Hz	
Power input		kW	15.59	15.89
Current		A	26.3 / 25.0 / 24.0	26.8 / 25.4 / 24.5
Fan	Type x Quantity		Propeller fan x 2	
	Airflow rate	m^3/min	400	
	Motor output	kW	0.38 x 2	
Compressor	Type		Hermetic	
	Motor output	kW	8.2 + 5.3	
	Crankcase heater	kW	0.045 x 2	
Heat exchanger			Salt resistant fin	
Refrigerant / Lubricant			R410A / MEL32	
External finish			Pre-coated galvanized sheets (+ powder coating for –BS type) <MUNSEL 5Y 8/1 or similar>	
External dimension H x W x D		mm	1,840 x 1,990 x 840	
Protection devices	High pressure protection		4.15MPa	
	Compressor		Over current protection / Over heat protection	
	Fan		Thermal switch	
	Inverter		Over current protection / Thermal protection	
Refrigerant piping diameter	High press. pipe		ϕ22.2 Brazed	
	Low press. pipe		ϕ28.58 Brazed	
Indoor unit	Total capacity		50~150% of outdoor unit capacity	
	Model / Quantity		Model P20~P250 / 1~24	
Noise level	*2	dB<A>	60 / 61	
Net weight		kg	481	
			Cooling	Heating
Operating temperature range			Indoor : 15˚CWB ~ 24˚CWB Outdoor: -5˚CDB ~ 43˚CDB	Indoor : 15˚CDB ~ 27˚CDB Outdoor: -20˚CWB ~ 15.5˚CWB

Note: *1. Cooling/Heating capacity indicates the maximum value at operation under the following condition.

† <Cooling> Indoor : 27˚CDB / 19˚CWB Outdoor : 35˚CDB
<Heating> Indoor : 20˚CDB Outdoor : 7˚CDB / 6˚CWB
Pipe length : 7.5m Height difference : 0m

†† <Cooling> Indoor : 27˚CDB / 19.5˚CWB Outdoor : 35˚CDB
Pipe length : 5m Height difference : 0m

*2. It is measured in anechoic room.

** Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.

R2-18-26(R410A)

Ref.: M-WYNCO-6913&6923

Model name			PURY-P550YGM-A (-BS)	
			Cooling	Heating
Capacity	*1 †	kW	63.0	67.0
	*1 †	BTU/h	215,000	228,600
	*1 ††	kcal/h	55,000	-
Power source			3N ~ 380/400/415V 50/60Hz	
Power input		kW	17.08	16.37
Current		A	28.8 / 27.3 / 26.4	27.6 / 26.2 / 25.3
Fan	Type x Quantity		Propeller fan x 2	
	Airflow rate	m^3/min	400	
	Motor output	kW	0.38 x 2	
Compressor	Type		Hermetic	
	Motor output	kW	9.3 + 5.3	
	Crankcase heater	kW	0.045 x 2	
Heat exchanger			Salt resistant fin	
Refrigerant / Lubricant			R410A / MEL32	
External finish			Pre-coated galvanized sheets (+ powder coating for –BS type) <MUNSEL 5Y 8/1 or similar>	
External dimension H x W x D		mm	1,840 x 1,990 x 840	
Protection devices	High pressure protection		4.15MPa	
	Compressor		Over current protection / Over heat protection	
	Fan		Thermal switch	
	Inverter		Over current protection / Thermal protection	
Refrigerant piping diameter	High press. pipe		ø28.58 Brazed	
	Low press. pipe		ø28.58 Brazed	
Indoor unit	Total capacity		50~150% of outdoor unit capacity	
	Model / Quantity		Model P20~P250 / 1~24	
Noise level	*2	dB<A>	61 / 62	
Net weight		kg	481	
Operating temperature range			Cooling	Heating
			Indoor : 15˚CWB ~ 24˚CWB Outdoor: -5˚CDB ~ 43˚CDB	Indoor : 15˚CDB ~ 27˚CDB Outdoor: -20˚CWB ~ 15.5˚CWB

Note: *1. Cooling/Heating capacity indicates the maximum value at operation under the following condition.

† <Cooling> Indoor : 27˚CDB / 19˚CWB Outdoor : 35˚CDB
<Heating> Indoor : 20˚CDB Outdoor : 7˚CDB / 6˚CWB
Pipe length : 7.5m Height difference : 0m

†† <Cooling> Indoor : 27˚CDB / 19.5˚CWB Outdoor : 35˚CDB
Pipe length : 5m Height difference : 0m

*2. It is measured in anechoic room.

** Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.

Ref.: M-WYNCO-6914&6924

R2-18~26(R410A)

Model name			PURY-P600YGM-A (-BS)	
			Cooling	Heating
Capacity	*1 †	kW	67.4	75.0
	*1 †	BTU/h	229,900	255,900
	*1 ††	kcal/h	60,000	-
Power source			3N ~ 380/400/415V 50/60Hz	
Power input		kW	17.59	17.73
Current		A	29.6 / 28.2 / 27.1	29.9 / 28.4 / 27.4
Fan	Type x Quantity		Propeller fan x 2	
	Airflow rate	m^3/min	400	
	Motor output	kW	0.38 x 2	
Compressor	Type		Hermetic	
	Motor output	kW	10.1 + 5.3	
	Crankcase heater	kW	0.045 x 2	
Heat exchanger			Salt resistant fin	
Refrigerant / Lubricant			R410A / MEL32	
External finish			Pre-coated galvanized sheets (+ powder coating for –BS type) <MUNSEL 5Y 8/1 or similar>	
External dimension H x W x D		mm	1,840 x 1,990 x 840	
Protection devices	High pressure protection		4.15MPa	
	Compressor		Over current protection / Over heat protection	
	Fan		Thermal switch	
	Inverter		Over current protection / Thermal protection	
Refrigerant piping diameter	High press. pipe		ϕ28.58 Brazed	
	Low press. pipe		ϕ28.58 Brazed	
Indoor unit	Total capacity		50~150% of outdoor unit capacity	
	Model / Quantity		Model P20~P250 / 1~32	
Noise level	*2	dB<A>	61 / 62	
Net weight		kg	481	
Operating temperature range			Cooling	Heating
			Indoor : 15˚CWB ~ 24˚CWB Outdoor: -5˚CDB ~ 43˚CDB	Indoor : 15˚CDB ~ 27˚CDB Outdoor: -20˚CWB ~ 15.5˚CWB

Note: *1. Cooling/Heating capacity indicates the maximum value at operation under the following condition.

† <Cooling> Indoor : 27˚CDB / 19˚CWB Outdoor : 35˚CDB
<Heating> Indoor : 20˚CDB Outdoor : 7˚CDB / 6˚CWB
Pipe length : 7.5m Height difference : 0m

†† <Cooling> Indoor : 27˚CDB / 19.5˚CWB Outdoor : 35˚CDB
Pipe length : 5m Height difference : 0m

*2. It is measured in anechoic room.

** Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.

R2-18-26(R410A)

Ref.: M-WYNCO-6915&6925

Model name			PURY-P650YGM-A (-BS)	
			Cooling	Heating
Capacity	*1 †	kW	73.0	81.5
	*1 †	BTU/h	249,000	278,000
	*1 ††	kcal/h	65,000	-
Power source			3N ~ 380/400/415V 50/60Hz	
Power input		kW	19.65	19.82
Current		A	33.1 / 31.5 / 30.3	33.4 / 31.7 / 30.6
Fan	Type x Quantity		Propeller fan x 2	
	Airflow rate	m^3/min	400	
	Motor output	kW	0.38 x 2	
Compressor	Type		Hermetic	
	Motor output	kW	10.9 + 5.3	
	Crankcase heater	kW	0.045 x 2	
Heat exchanger			Salt resistant fin	
Refrigerant / Lubricant			R410A / MEL32	
External finish			Pre-coated galvanized sheets (+ powder coating for –BS type) <MUNSEL 5Y 8/1 or similar>	
External dimension H x W x D		mm	1,840 x 1,990 x 840	
Protection devices	High pressure protection		4.15MPa	
	Compressor		Over current protection / Over heat protection	
	Fan		Thermal switch	
	Inverter		Over current protection / Thermal protection	
Refrigerant piping diameter	High press. pipe		ø28.58 Brazed	
	Low press. pipe		ø28.58 Brazed	
Indoor unit	Total capacity		50~150% of outdoor unit capacity	
	Model / Quantity		Model P20~P250 / 1~32	
Noise level	*2	dB<A>	62 / 62.5	
Net weight		kg	481	
Operating temperature range			Cooling	Heating
			Indoor : 15˚CWB ~ 24˚CWB Outdoor: -5˚CDB ~ 43˚CDB	Indoor : 15˚CDB ~ 27˚CDB Outdoor: -20˚CWB ~ 15.5˚CWB

Note: *1. Cooling/Heating capacity indicates the maximum value at operation under the following condition.

† <Cooling> Indoor : 27˚CDB / 19˚CWB Outdoor : 35˚CDB
<Heating> Indoor : 20˚CDB Outdoor : 7˚CDB / 6˚CWB
Pipe length : 7.5m Height difference : 0m

†† <Cooling> Indoor : 27˚CDB / 19.5˚CWB Outdoor : 35˚CDB
Pipe length : 5m Height difference : 0m

*2. It is measured in anechoic room.

** Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.

Ref.: M-WYNCO-6916&6926

R2-18~26(R410A)

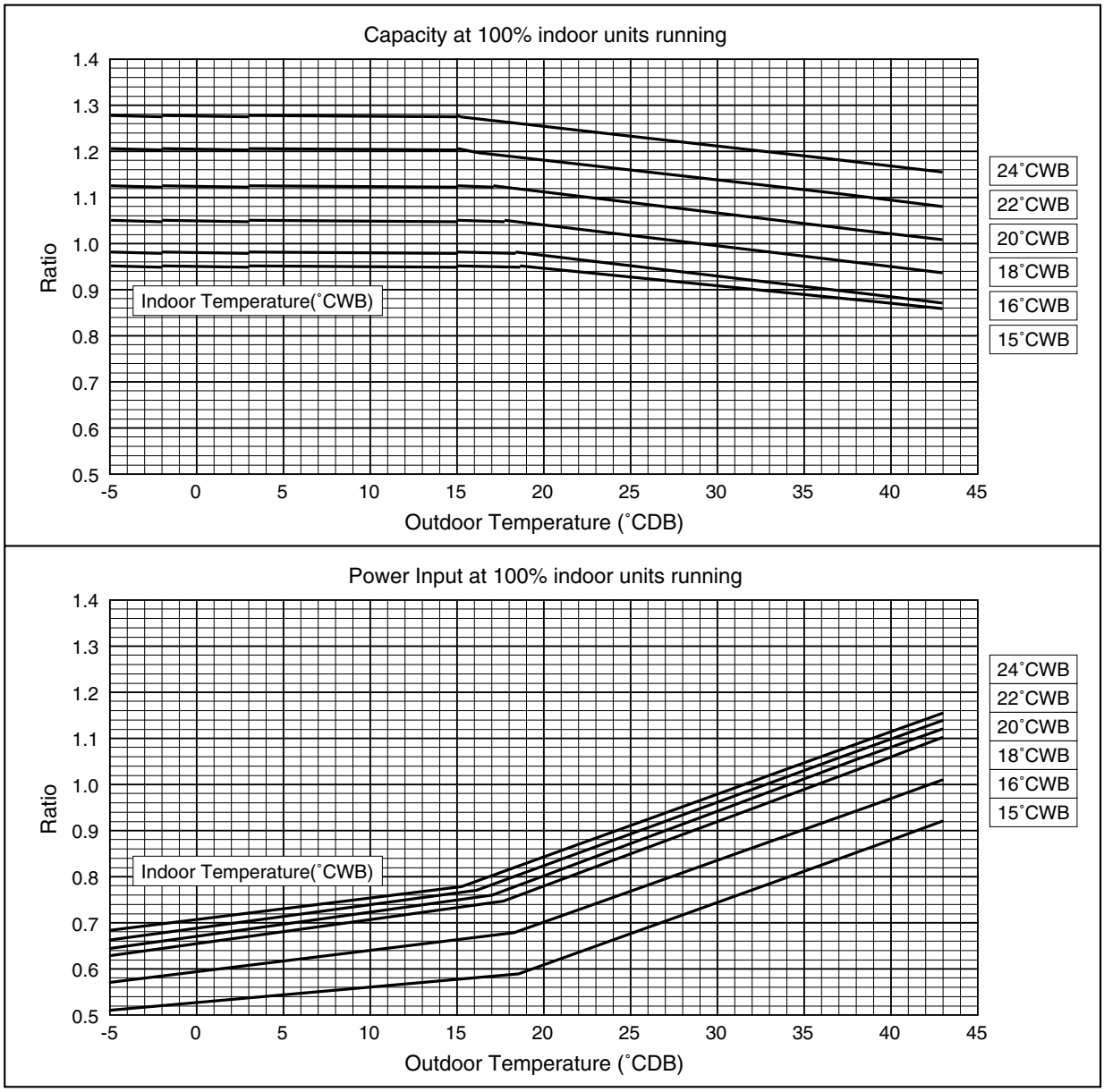
2. Capacity Table

2-1. Correction by temperature

Cooling

• Standard Specifications

		PURY-P450YGM	PURY-P500YGM	PURY-P550YGM	PURY-P600YGM	PURY-P650YGM
Capacity	kW	50.0	56.0	63.0	67.4	73.0
Input	kW	13.61	15.59	17.08	17.59	19.65

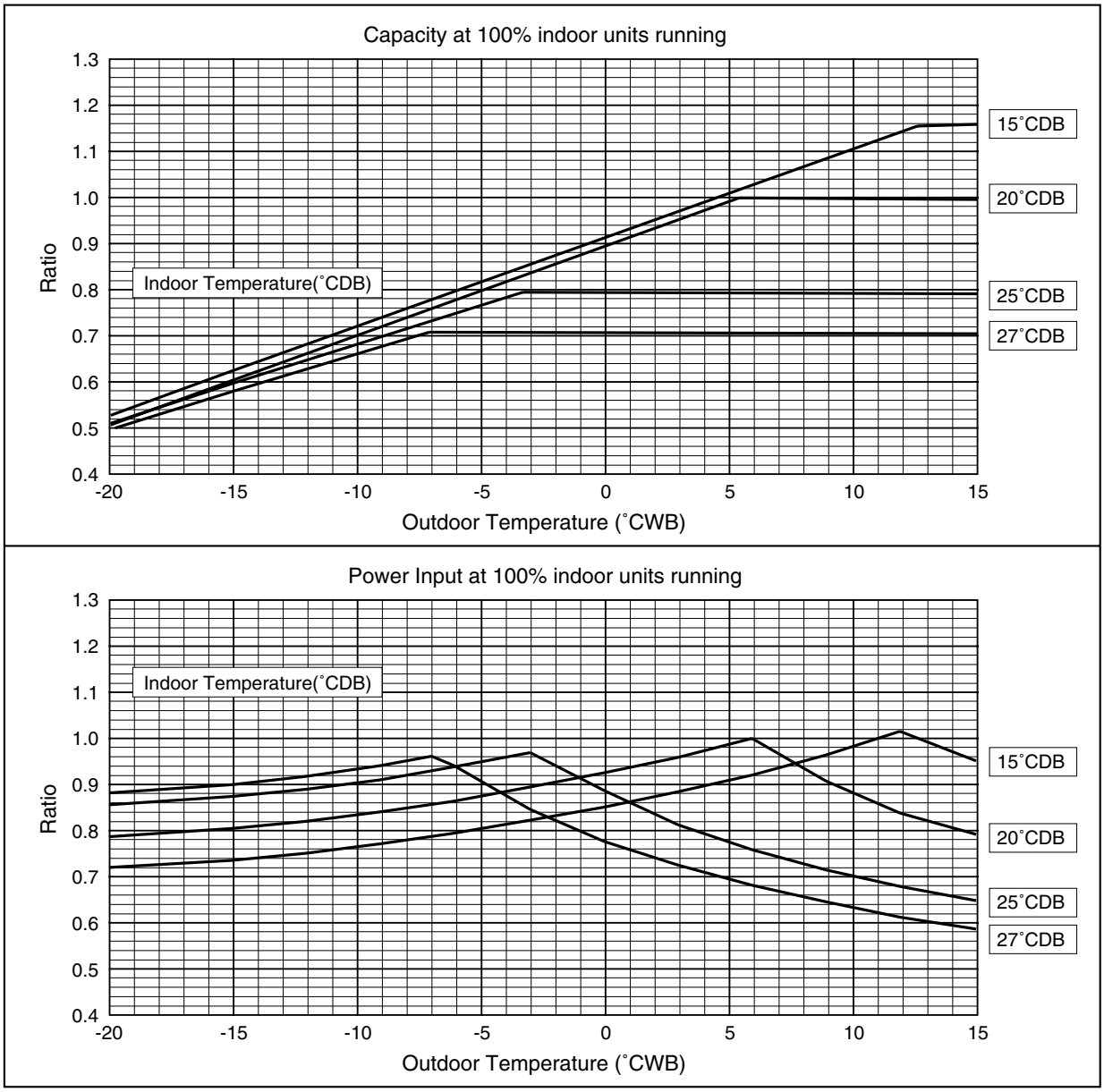


Ref: cap&inpc-p450-650

Heating

• Standard Specifications

		PURY-P450YGM	PURY-P500YGM	PURY-P550YGM	PURY-P600YGM	PURY-P650YGM
Capacity	kW	56.0	63.0	67.0	75.0	81.5
Input	kW	13.86	15.89	16.37	17.73	19.82

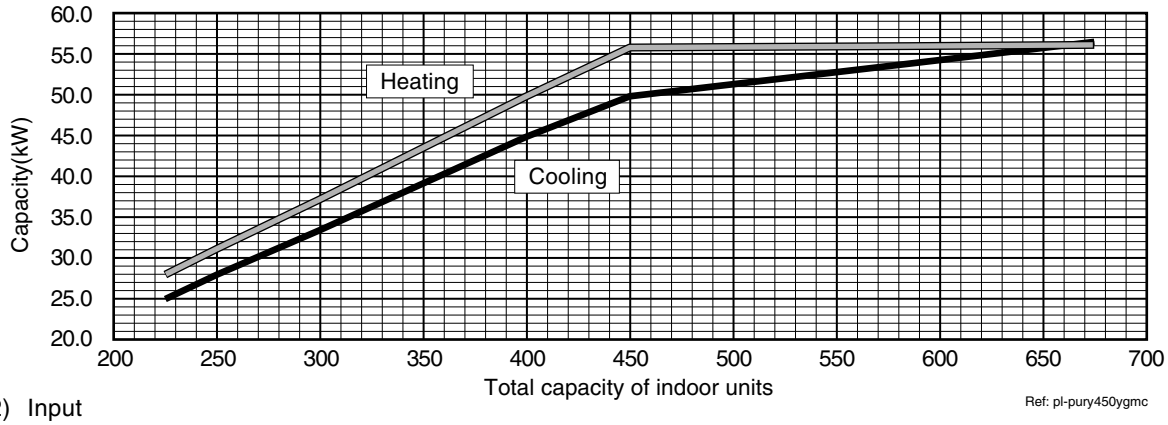


Ref: cap&inph-p450-650

2-2. Correction by total indoor

PURY-P450YGM

1) Capacity



Ref: pl-pury450ygmc

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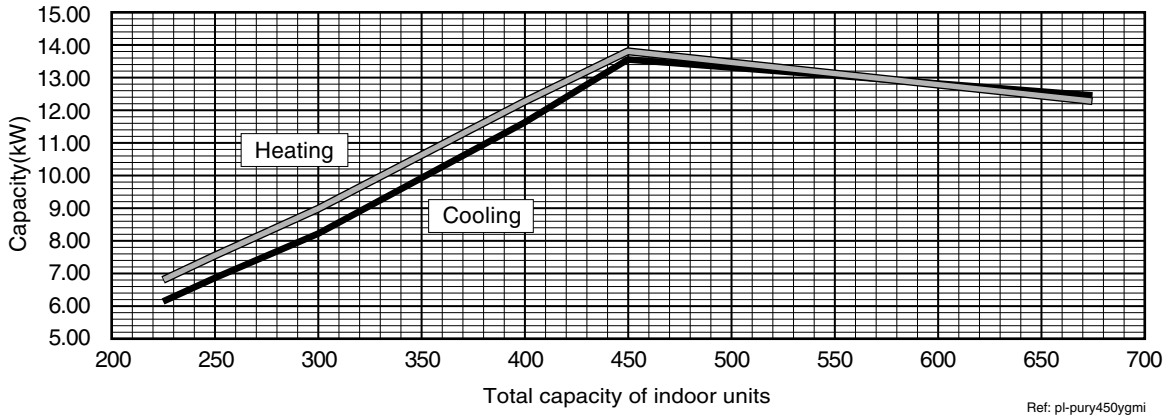
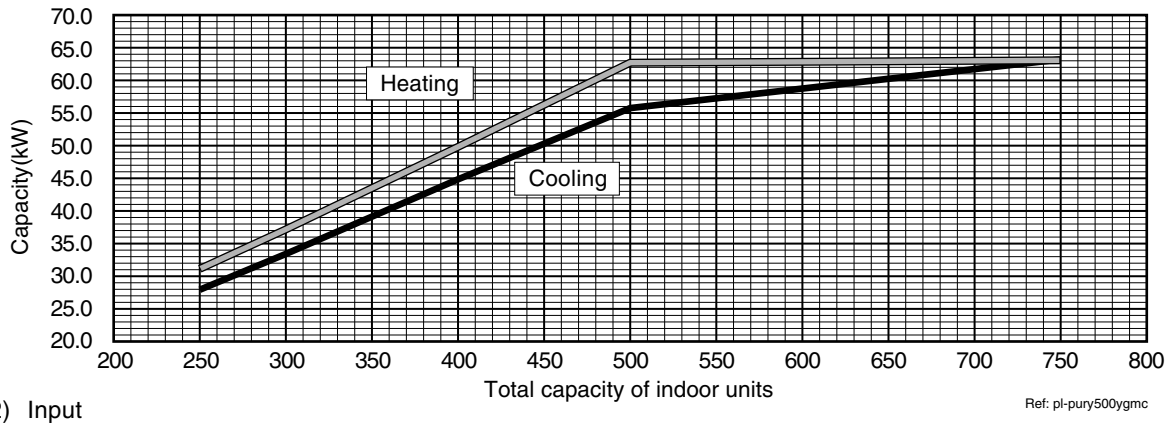


Ref: pl-pury450ygmi

PURY-P500YGM

1) Capacity



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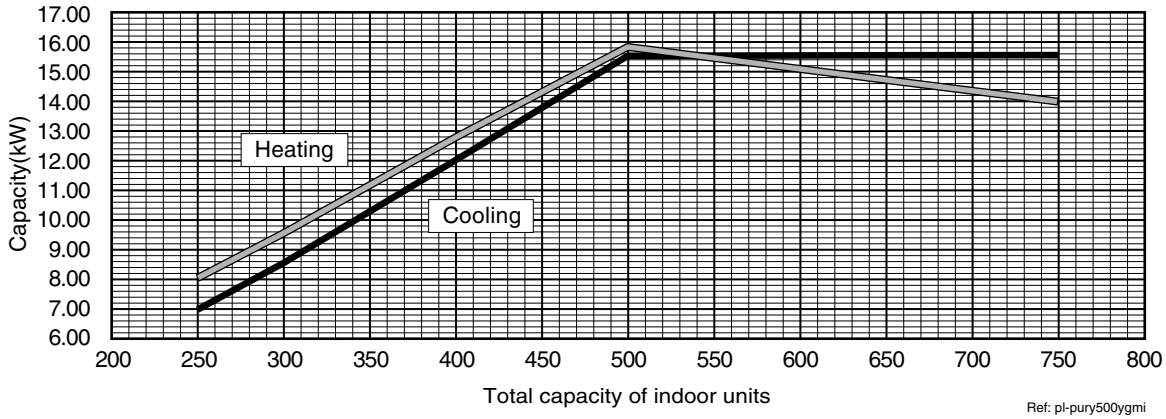
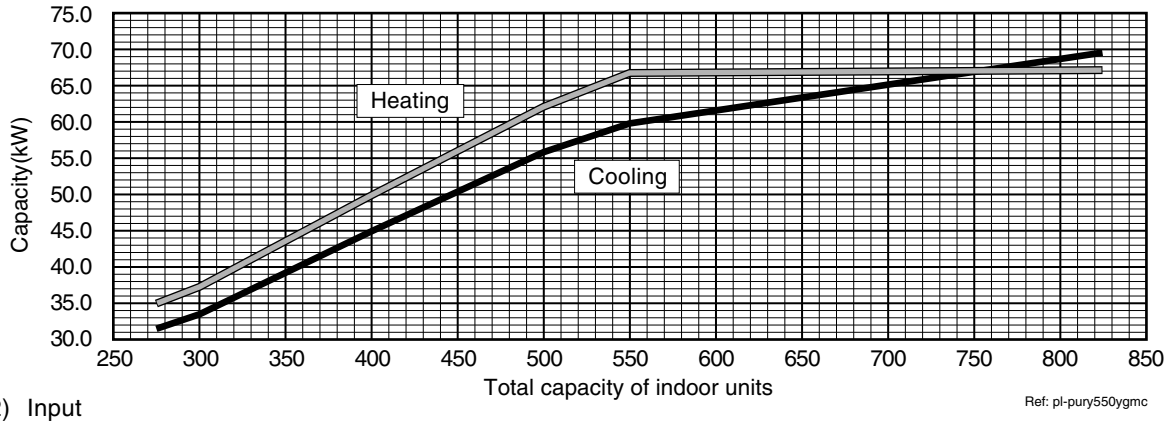


Ref: pl-pury500ygmi

PURY-P550YGM

1) Capacity



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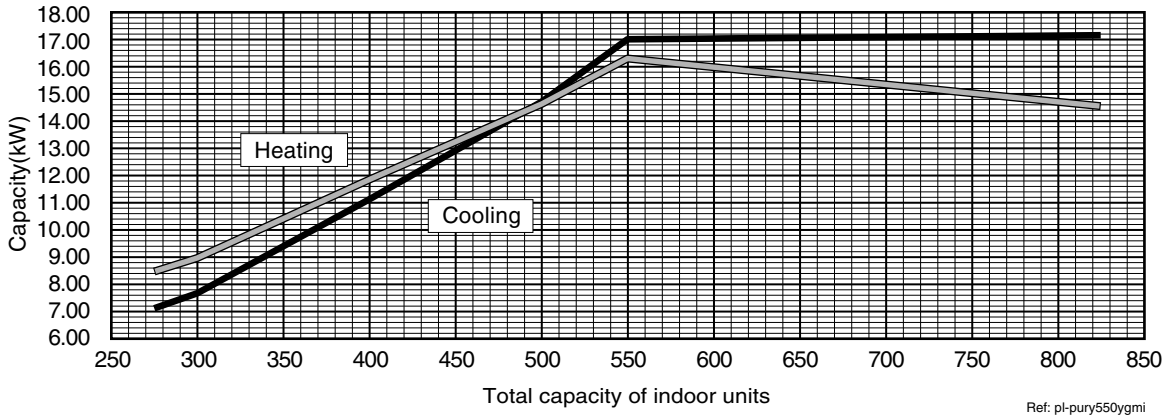
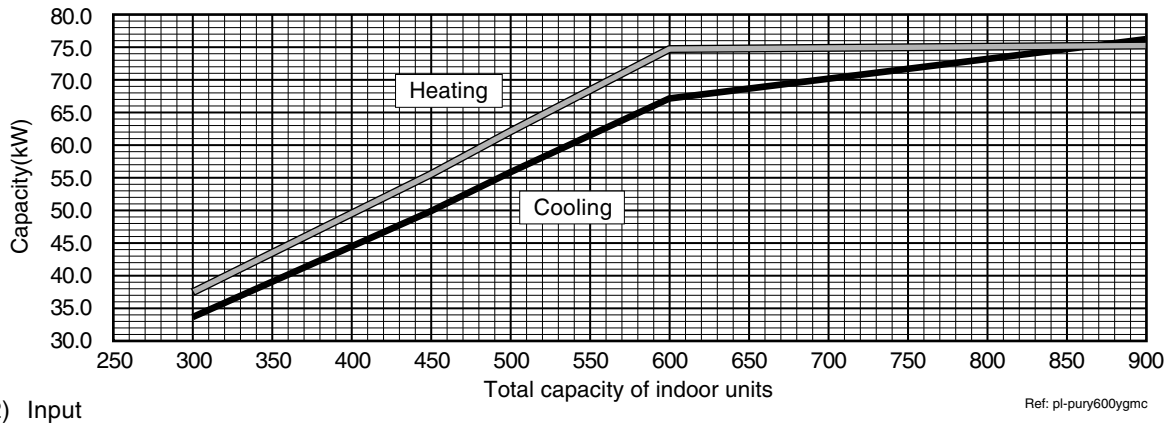


Ref: pl-pury550ygmi

PURY-P600YGM

1) Capacity



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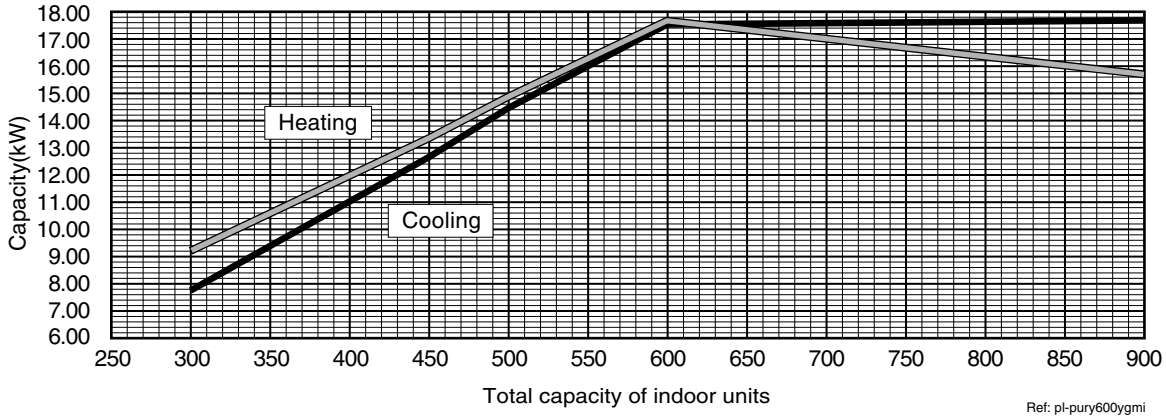

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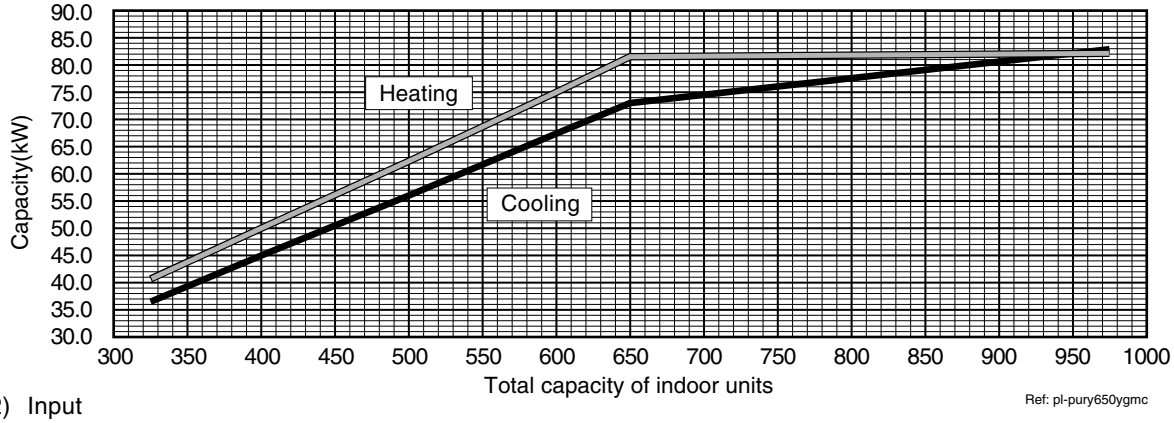
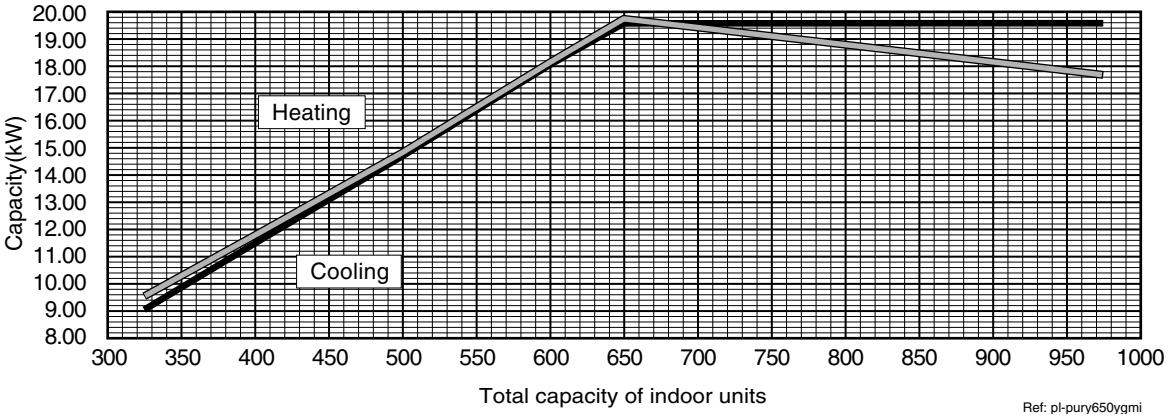
PURY-P650YGM

1) Capacity



2) Input

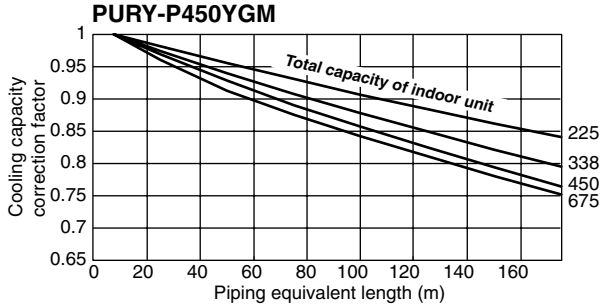


2-3. Correction by refrigerant piping length

Due to the extension of refrigerant piping, a decrease of cooling/heating capacity happens. The actual capacity is considered by multiplying the correction factor according to the equivalent length of the refrigerant piping shown at the table below.

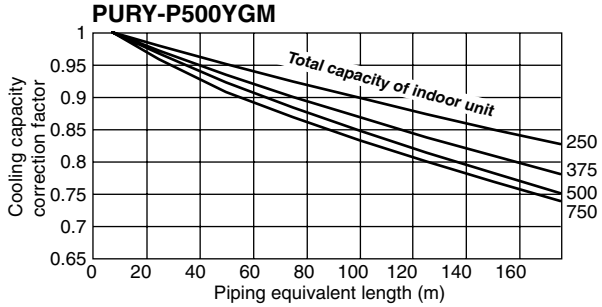
• Cooling capacity correction

PURY-P450YGM



Ref.: crpl-p450ygmc

PURY-P500YGM



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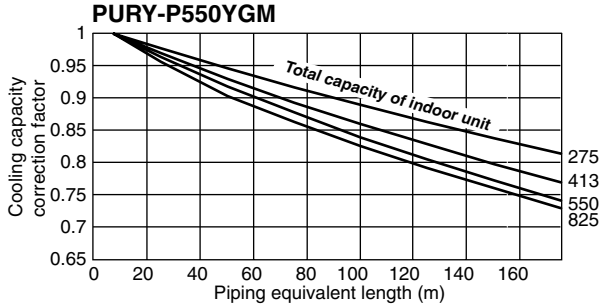
PURY-P550YGM



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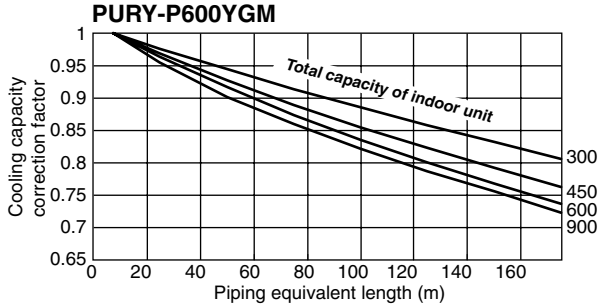
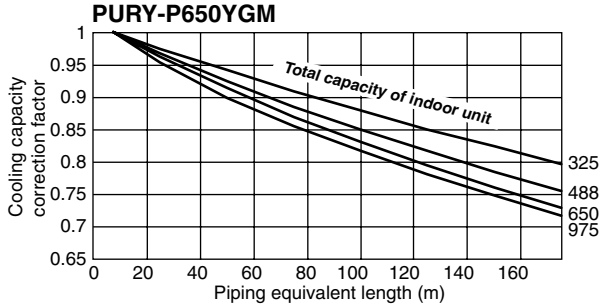
PURY-P600YGM



Ref.: crpl-p600ygmc

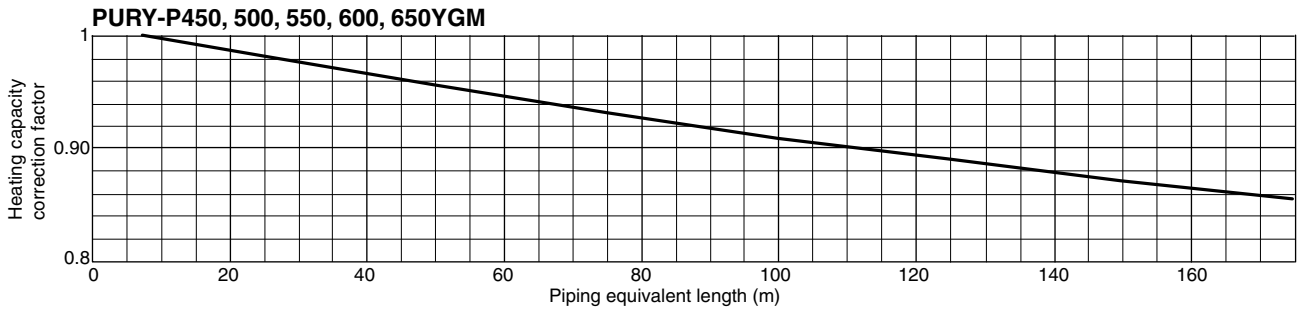
PURY-P650YGM



Ref.: crpl-p650ygmc

• Heating capacity correction

PURY-P450, 500, 550, 600, 650YGM



Ref.: hccfr-450-650ymg-r2

• How to obtain piping equivalent length

1 **PU(H)Y, PURY-P200YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.35 x number of bent on the piping) m

2 **PU(H)Y, PURY-P250,300YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.42 x number of bent on the piping) m

3 **PU(H)Y, PURY-P350YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.47 x number of bent on the piping) m

4 **PUHY, PURY-P400,450,500,550,600,650YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.50 x number of bent on the piping) m

5 **PUHY-P700,750,800YSGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.70 x number of bent on the piping) m

2-4. Correction at frosting and defrosting

Due to frosting at the outdoor heat exchanger and the automatical defrosting operation, the heating capacity of the outdoor unit should be considered by multiplying the correction factor which shown in the table below.

Table of correction factor

PURY-P450, 500YGM

Outdoor inlet air temp (˚CWB)	6	4	2	1	0	-2	-4	-6	-8	-10	-20
Correction factor	1.0	0.98	0.89	0.86	0.89	0.90	0.92	0.95	0.95	0.95	0.95

Ref.: def-ygmp450-500

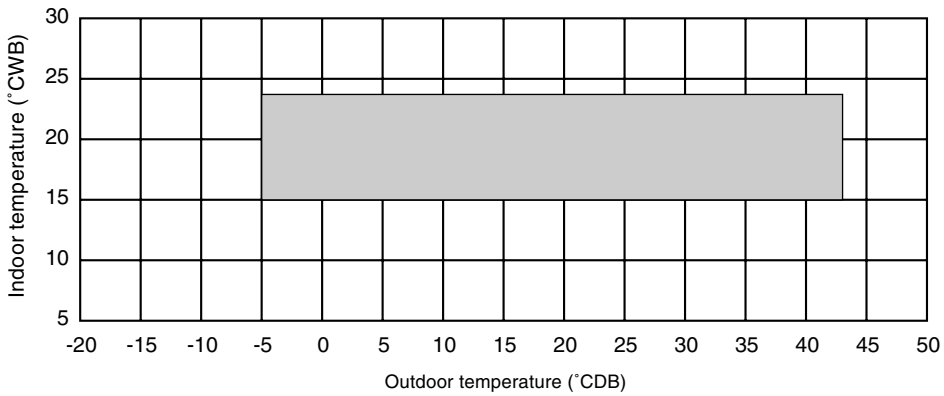
PURY-P550, 600, 650YGM

Outdoor inlet air temp (˚CWB)	6	4	2	1	0	-2	-4	-6	-8	-10	-20
Correction factor	1.0	0.94	0.87	0.86	0.87	0.88	0.90	0.90	0.93	0.93	0.93

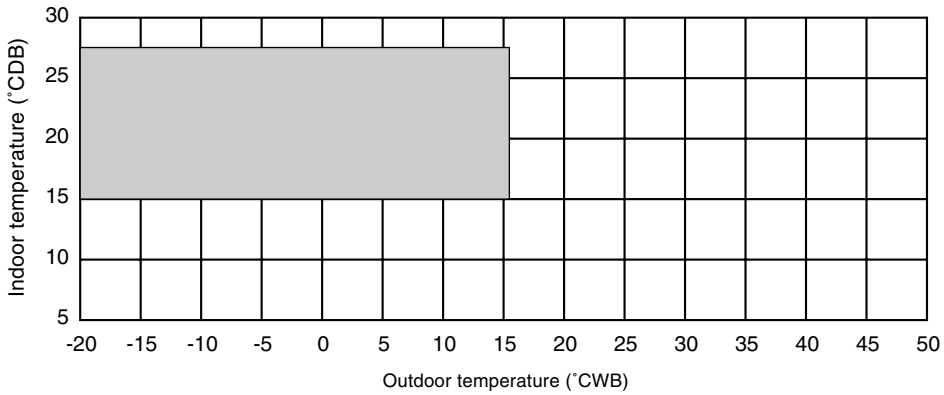
Ref.: def-ygmp550-650

2-5. Operation limit

• Cooling



• Heating

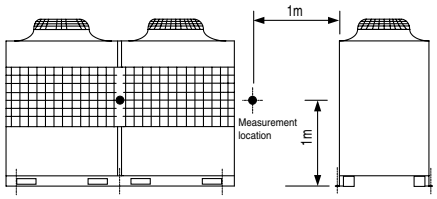


Ref.: ol-ygmr2

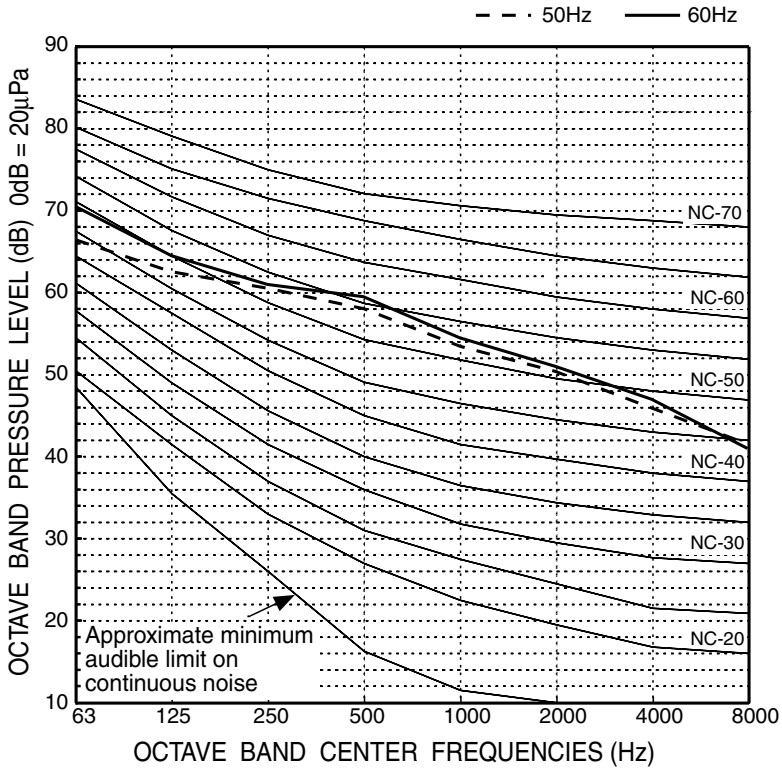
3. Sound Levels

PURY-P450YGM

Measurement condition



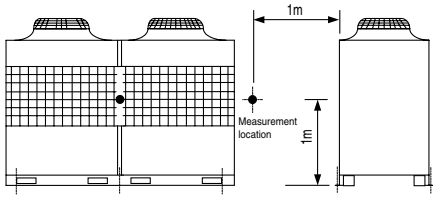
	63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	dB(A)
50Hz	66.5	62.5	60.5	58	53.5	50.5	46	41.5	60
60Hz	70.5	64.5	61	59.5	54.5	51	47	41	61



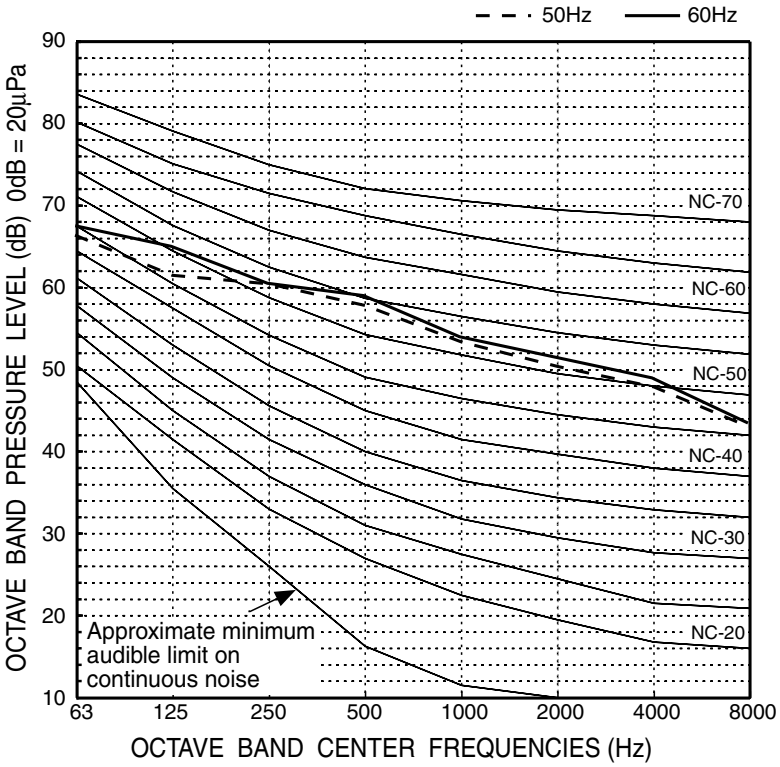
Ref.: r450ygm-WYNB0-3590

PURY-P500YGM

Measurement condition



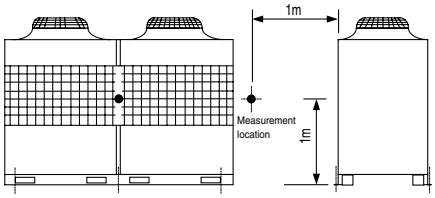
	63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	dB(A)
50Hz	67	61.5	60.5	58	53.5	50.5	48	43	60
60Hz	68	65	60.5	59	54	51.5	49	43.5	61



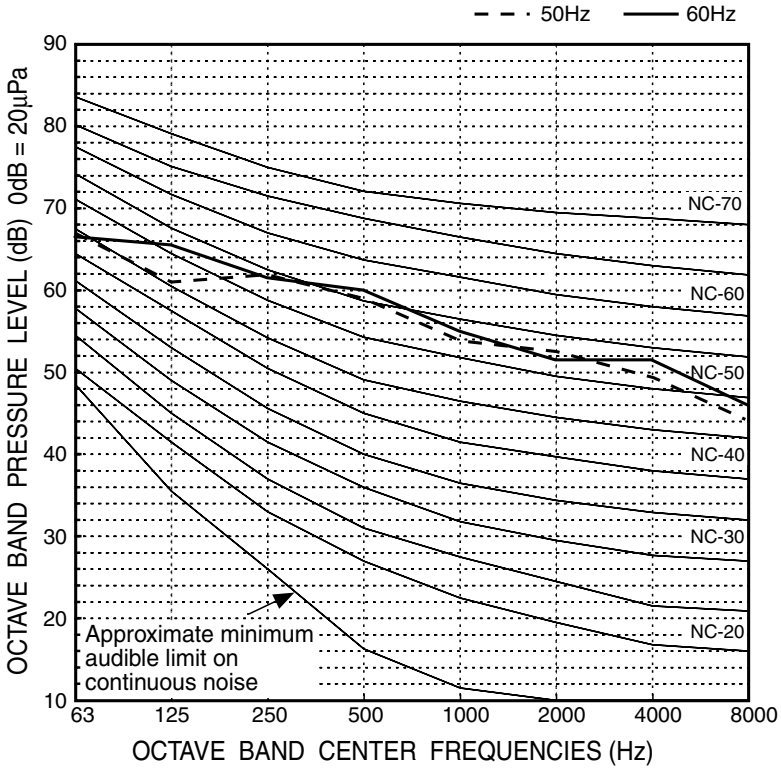
Ref.: r500ygm-WYNB0-3591

PURY-P550YGM

Measurement condition



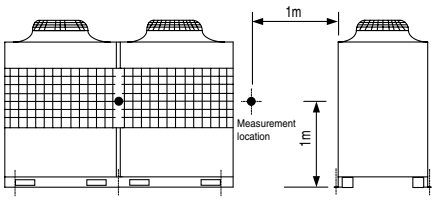
	63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	dB(A)
50Hz	67	61	62	59	54	52.5	49.5	44	61
60Hz	66.5	65.5	61.5	60	55	51.5	51.5	46	62



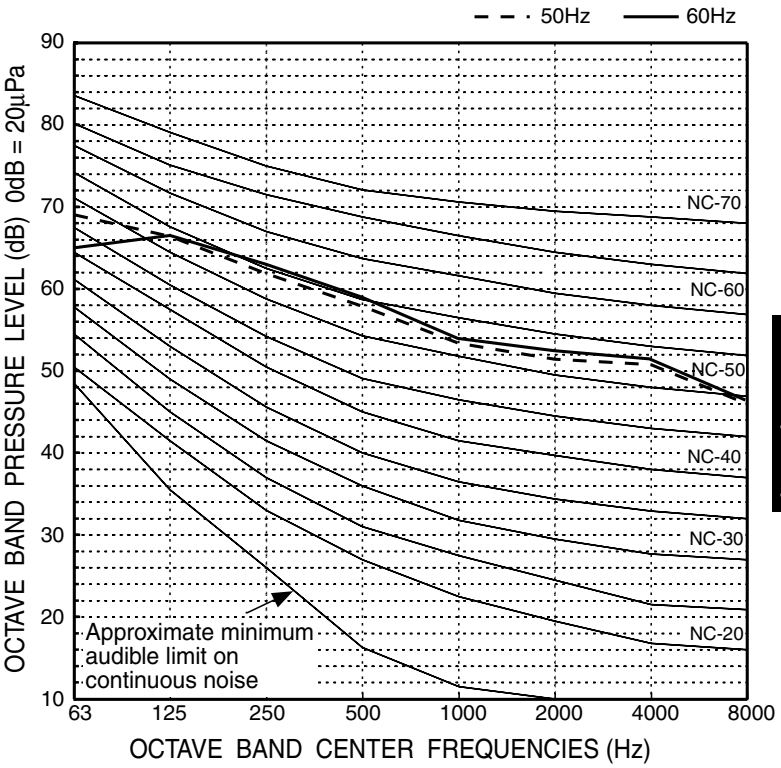
Ref.: r550ygm-WYNB0-3592

PURY-P600YGM

Measurement condition



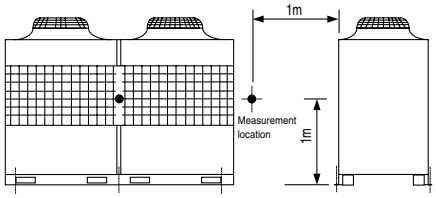
	63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	dB(A)
50Hz	69	66.5	62	58	53.5	51.5	51	46	61
60Hz	65	66.5	63	59	54	52.5	51.5	46.5	62



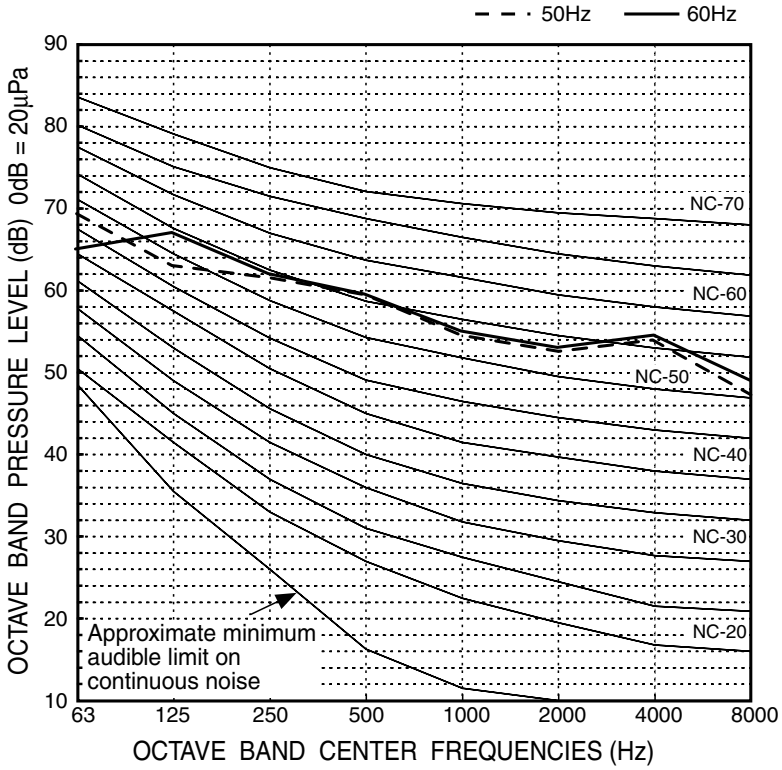
Ref.: r600ygm-WYNB0-3593

PURY-P650YGM

Measurement condition



	63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	dB(A)
50Hz	69.5	63	61.5	59.5	54.5	52.5	54	47	62
60Hz	65	67	62	59.5	55	53	54.5	49	62.5



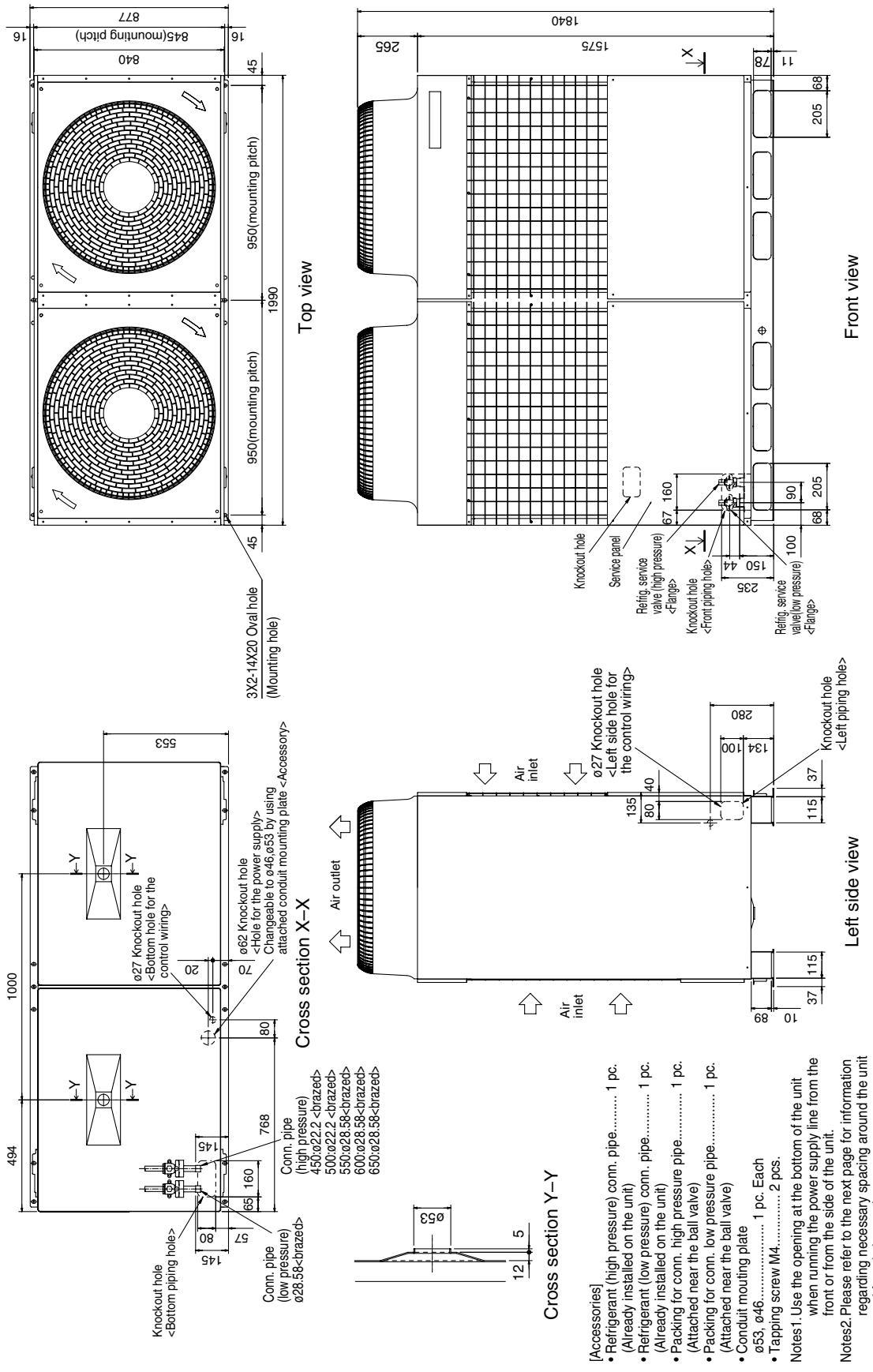
Ref.: r650ygm-WYNB0-3594

R2-18~26(R410A)

4. External Dimensions

PURY-P450,500,550,600,650YGM-A(-BS)

Unit : mm



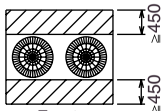
R2-18-26(R410A)

Spacing of PURY-P450,500,550,600,650YGM-A(-BS)

1.Space required around unit

✻ In case of single installation [Basic rules for spacing the unit]

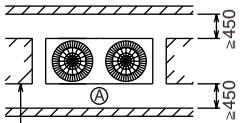
①Since the service from the back of unit is required, provide the back space 450 mm or above as the front.



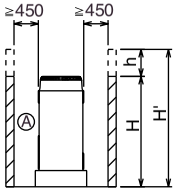
Front
<Top view>

[When inlet air enters from right and left sides of unit]

①Wall heights <H> of the front and the back sides shall be within total height of unit.
②When wall height <H> exceeds total height of unit, add <h> dimension to 450 of the following figure.
h=wall height <H'> -total height of unit.



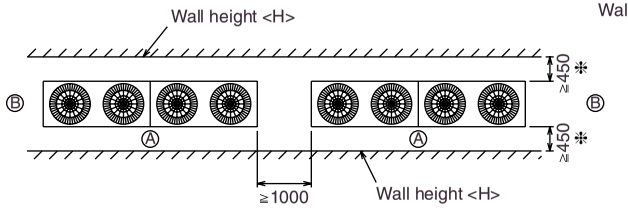
No restrictions on wall height
<left and right>

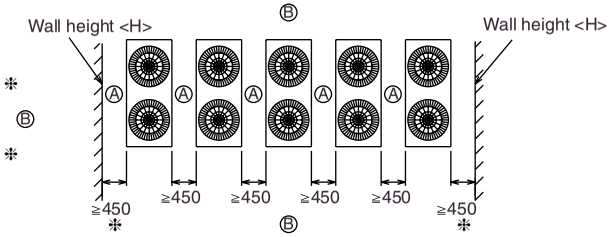


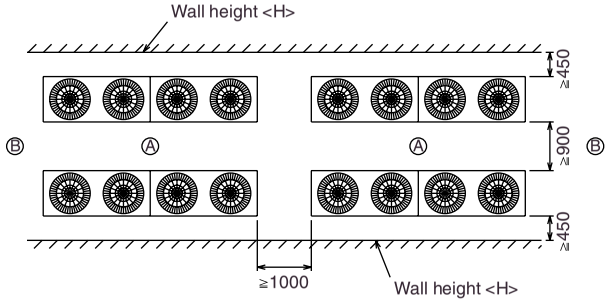
<Side view>

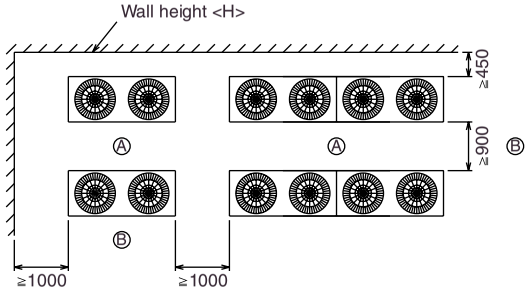
✻ In case of collective installation and continuous installation

①Space required for collective installation and continuous installation:
When installing several units, provide the space between each block considering passage for air and people.
②Open in two directions.
③In case of wall height <H> exceeds total height of unit, add <h> dimension
(h=wall height <H> -total height of unit) to ✻ marked dimension.
④If there is a wall at both the front and the rear of the unit, install up to three units consecutively in
the side direction and provide a space of 1000 mm or more as inlet space/passage space for each three units.







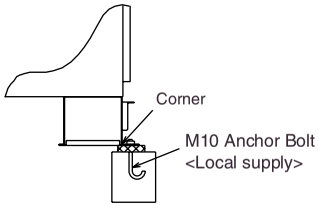


Ⓐ Front
Ⓑ Must be open

(Unit : mm)

2.Foundation work

①When building the foundation, give full attention to the floor strength, drain water disposal <drain water flows out of the unit, during operation>, piping and wiring routes.
②Be sure that the corners are firmly seated. If the corners are not firmly seated, the installation feet may be bent.
③When down piping and down wiring are performed, be sure that foundation and base work does not block the base through holes.



Ref: ygm-W656811 2/2

5. Electrical Wiring Diagram

PURY-P450, 500, 550, 600, 650YGM-A(-BS)

< Symbol explanation >

Symbol	Name
ACCT1	AC Current Sensor
DCCT1	DC Current Sensor
DCL1	DC reactor (Power factor improvement)
52C1	Magnetic contactor (Inverter main circuit)
52C2	Magnetic contactor (No.2 Compressor)
51C2	Overload relay (No.2 Compressor)
52F	Magnetic contactor (Fan motor)
MF3	Fan motor (Radiator panel)
CH11,12	Crank case heater (Compressor)
21S4a, b	4-way valve
SV1, 2, 3	Solenoid valve (Discharge-suction bypass)
SV4a–d	Solenoid valve (Heat exchanger capacity control)
SV5a, b	
TH11,12	Thermistor: Discharge pipe temp. detect
TH5	Thermistor: Pipe temp.detect (Hex outlet)
TH6	Thermistor: OA temp.detect
TH7	Thermistor: liquid outlet temp.detect at Sub-cool coil
THHS1	Radiator panel temp. detect
63H1, 2	High pressure switch
63HS	High pressure sensor
63LS	Low pressure sensor
L1, L2	Choke coil (Transmission)
Z20	Function device
⏚	Earth terminal

※1: Function according to switch operation. (SW4-7,CN3D 1-2P, and CN3D 1-3P)

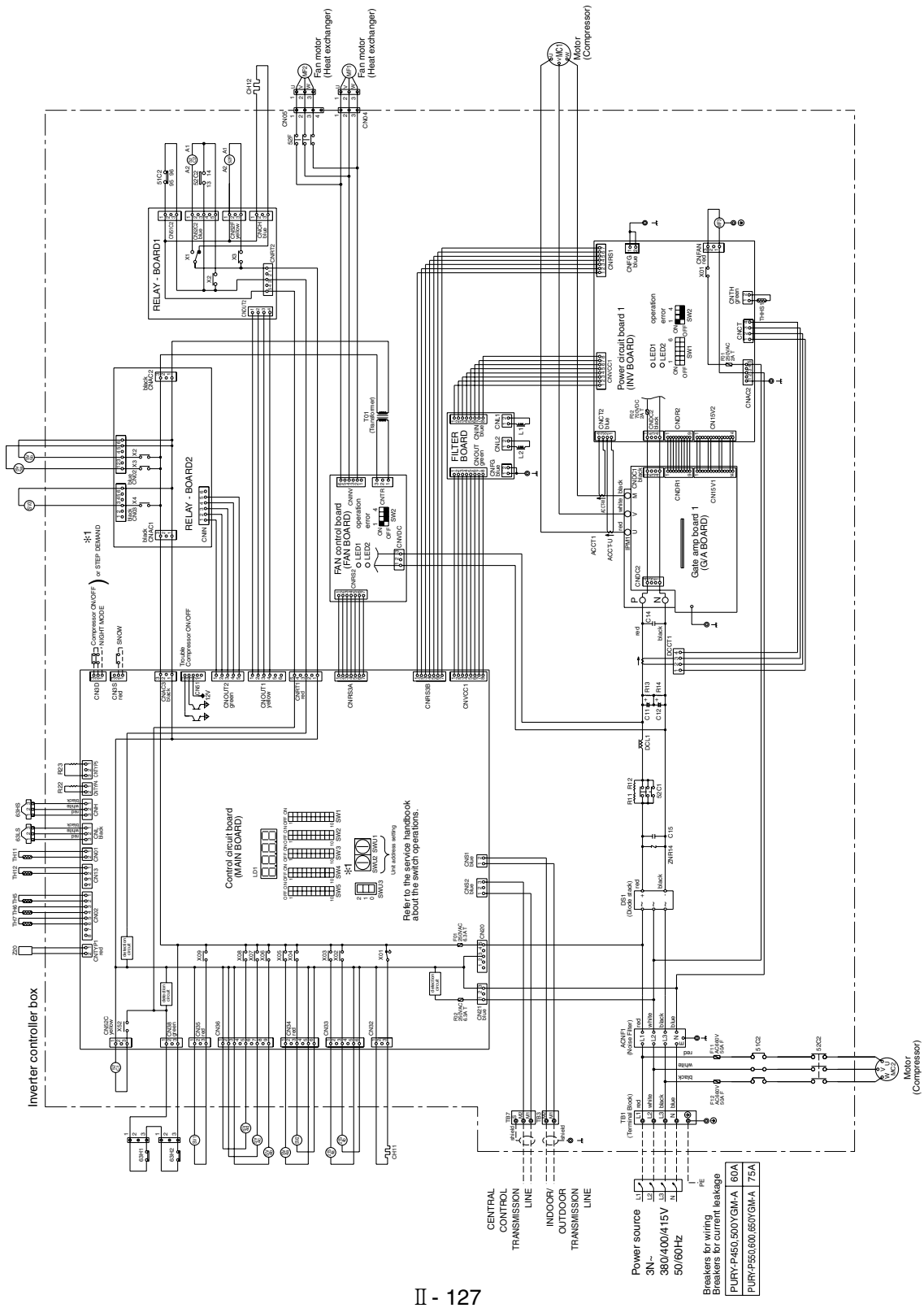
SW4-7:OFF (Compressor ON/OFF and NIGHT MODE)

CN3D 1-3P	Compressor ON/OFF	CN3D 1-2P	NIGHT MODE
OPEN	ON	OPEN	OFF
SHORT	OFF	SHORT	ON

SW4-7:ON (STEP DEMAND)

CN3D 1-2P / CN3D 1-3P	OPEN	SHORT
OPEN	100%	75%
SHORT	0%	50%

NOTE:The broken lines indicate field wiring.

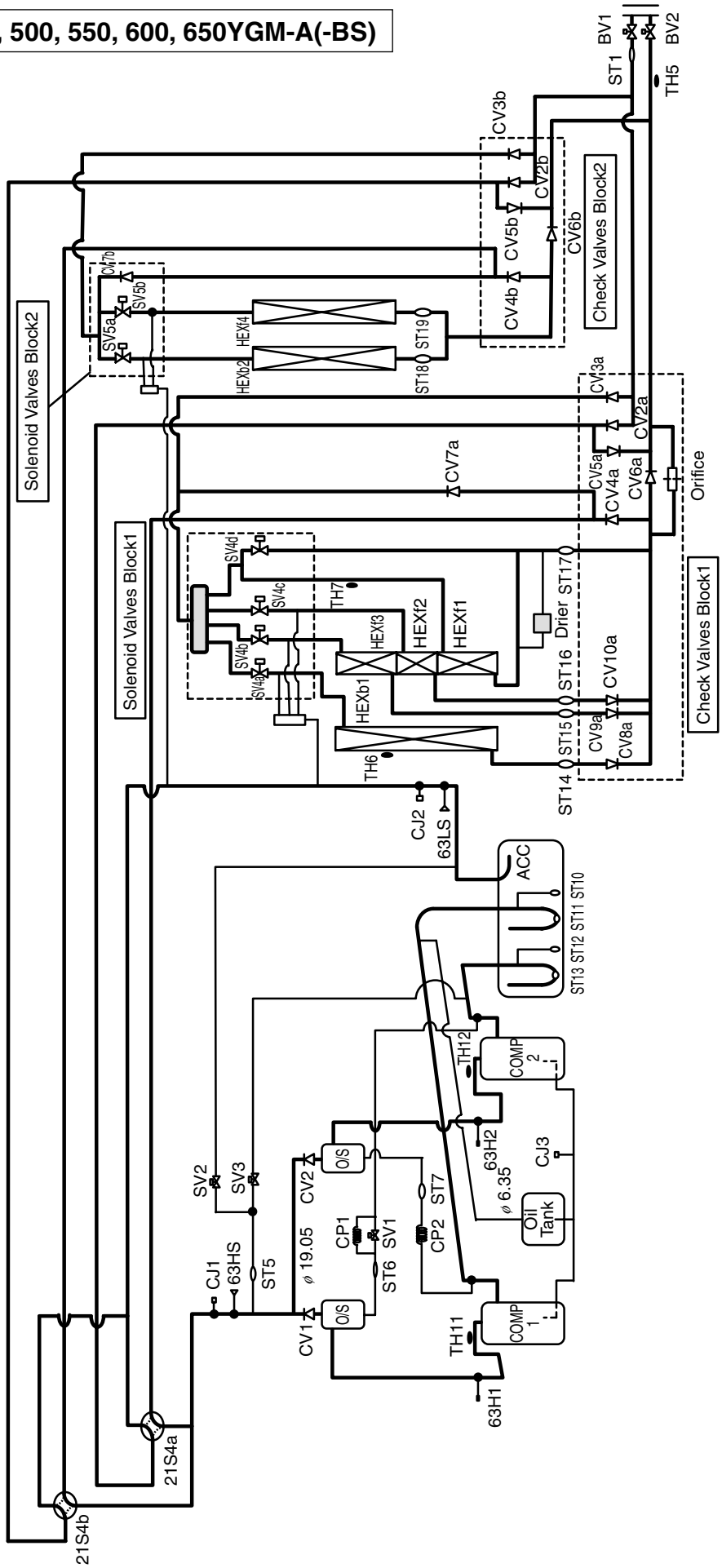


R2-18-26(R410A)

Ref: R2-p450~650ygm-W274616

6. Refrigerant Circuit Diagram And Thermal Sensor

PURY-P450, 500, 550, 600, 650YGM-A(-BS)



Ref: rcd-450~650ygm/2

R2-18~26(R410A)

CITY MULTI (TM)
CONTROLLER

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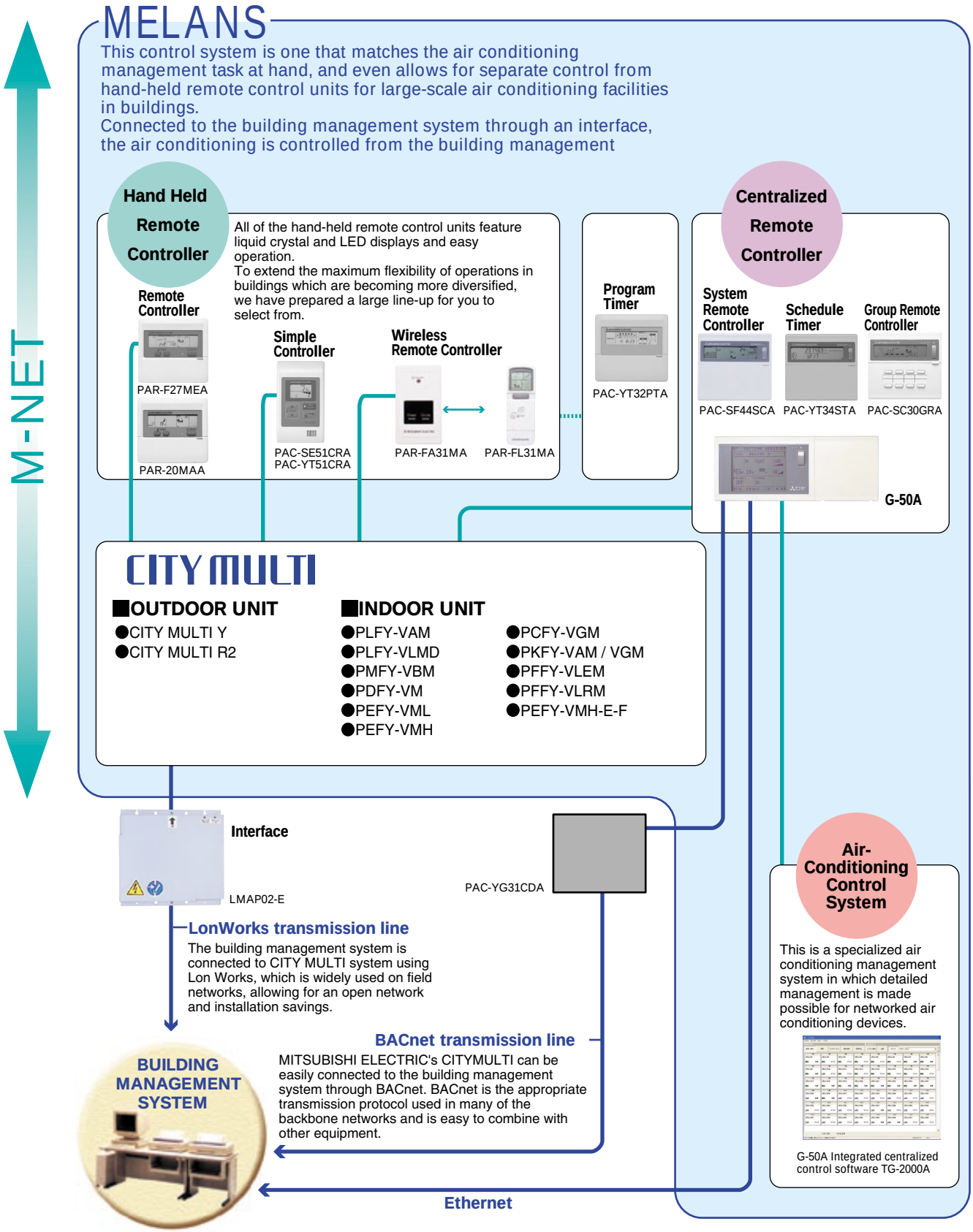
High speed - large volume communication control makes for a super-flexible management system



1.1 Function table of controllers

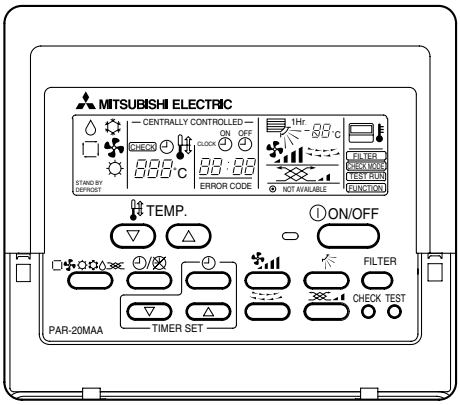
Model			Local remote controller				MELANS series (Man-machine type)							Interface type	
			Remote controller		Simple remote controller	Wireless remote controller	ON/OFF remote controller	Group remote controller	System remote controller	Schedule timer	Centralized controller			Air conditioner interface	
			PAR-20MAA	PAR-F27MEA	PAC-SE/YT51CRA	PAR-FL31MA	PAC-YT40ANRA	PAC-SC30GRA	PAC-SF44SRA	PAC-YT34ST	G-50A		TG-2000A	LMAP02-E	PAC-YG31CDA
No. of units controllable (Groups (G) / units)			1G/16units	1G/16units	1G/16units	1G/16units	16/50	8G/16units	50/50	50G/50U	50G/50units G-50A	50G/50units browser *4	2000G/2000units	50G/50units	500G/500units
Operation	Start / Stop		○	○	○	○	◎	◎	◎	◎	◎	◎	◎	Specification will be changes depend on connected upper system.	
	Operation mode		○	○	×	○	×	◎	◎	×	◎	◎	◎		
	Temperature setting		○	○	○	○	×	◎	◎	×	◎	◎	◎		
	Permit / Prohibit direction		×	×	×	×	×	×	◎	×	◎	◎	◎		
	Fan speed		○	○	○	○	×	◎	◎	×	◎	◎	◎		
	Air flow direction		○	○	×	○	×	◎	◎	×	◎	◎	◎		
Monitoring	Status		○	○	○	○	×	◎	○	×	◎	○	◎		
	Error flashing		○	○	○	○	○	○	○	○	○	○	○		
	Error content		○	○	○	×	○	○	○	○	○	○	○		
	Filter sign		○	○	×	×	×	○	○	×	○	○	○		
	Operating hour		×	×	×	×	×	×	×	×	×	×	●		
	Operation mode		○	○	○	○	×	○	○	×	○	○	○		
	Set temperature		○	○	○	○	×	○	○	×	○	○	○		
	Indoor temperature (intake)		○	○	×	×	×	○	×	×	○	○	○		
	Permit / Prohibit		○	○	○	○	×	○	○	×	○	○	○		
	Fan speed		○	○	○	○	×	○	○	×	○	○	○		
	Air flow direction		○	○	×	○	×	○	○	×	○	○	○		
Scheduling	Weekly		×/○ *1	×/○ *1	×	×	× *1	×/◎ *1	×	○	○	●	●		
	Annual (Designated day setting)		×	×	×	×	×	×	×	×	×	●	●		
	One day		×	×	×	×	×	×	×	×	×	●	●		
	Times of stops / Starts per day		1/1 / 48 *1	*2 1/1 / 48 *1	×	1/1	× *1	×/48 *1	×	16	3/3	12	12		
	Times of stops / Starts per week		×	×	×	×	× *1	×/336 *1	×	144	21/21	84	84		
	Auto off timer		×	○	×	×	×	×	×	×	×	×	×		
	Minimum setting unit (minutes)		10/30 *1	10/30 *1	×	10	× *1	×/30 *1	×	5	10	1	1		
Recording	Error history		×	×	×	×	×	○	○	×	○	○	○		
	Daily / Monthly reports		×	×	×	×	×	×	×	×	×	×	○		
	Electricity charges		×	×	×	×	×	×	×	×	×	×	●		
Others	Set temperature range limit		×	○	×	×	×	×	×	×	×	×	○ *6		
	Auto lock		×	○	×	×	×	×	×	×	×	×	×		
Control and management	Ventilation (group / interlocked)		×/○	×/○	×	×	×	×/○	○	×	○	○/○ *5	○/○		
	Group setting		× *3	○	×	×	×	○	○	×	○	○ *5	○		
	Block setting		×	×	×	×	×	×	×	×	×	○ *5	○		
	Revision of electricity charges		×	×	×	×	×	×	×	×	×	×	■		
Operation	Ventilation (group / interlocked)	Start / Stop	–/○	–/○	–/○	–/○	×	–/◎	◎/◎	×	◎/◎	◎/◎	◎/◎		
		Fan speed	–/○	–/○	–/×	–/×	×	–/○	◎/◎	×	◎/◎	◎/◎	○/○		
		Ventilation mode	–/×	–/×	–/×	–/×	×	–/×	◎/×	×	◎/×	◎/×	◎/×		
Monitoring	Ventilation (group / interlocked)	Status	–/○	–/○	–/×	–/×	×	–/○	○/○	×	◎/◎	◎/◎	◎/○		
		Fan speed	–/○	–/○	–/×	–/×	×	–/○	○/○	×	○/○	○/○	○/○		
		Ventilation mode	–/×	–/×	–/×	–/×	×	–/×	○/×	×	○/×	○/×	○/×		

◎: Each group / Batched ○: Each group □: Depend on the Building management system ■: Block (City Multi indoor unit only)
▲: Set up by a local remote controller △: Please inquire ×: Not available –: Not used ●: G50 license registration possible.

*1: When PAC-YT32PTA is connected. *2: daily timer availability *3: For group operation, cross-over wring is required between indoor unit.
*4: Contact the retailer for questions relating to the browser. *5: Installation possible at Initial setting tool. *6: Ver,4.10 or later.

2. Local remote controller

2.1 MA remote controller PAR-20MAA



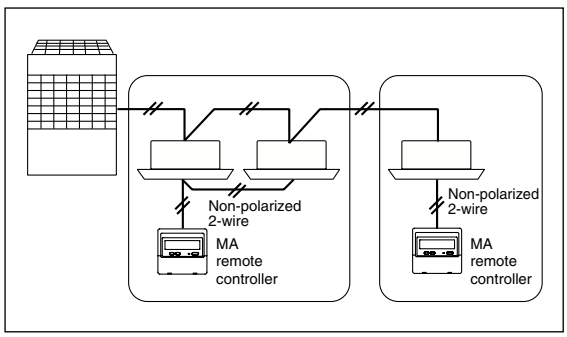
- Group operation is possible without requiring address setting.
- Usable as the local remote controller for System Controller (MELANS).
- Remote controller automatically judges the function required for indoor unit such as vane/louver selection.
  - (※) For group operation, cross-over wiring is required between indoor units.
  - (※) Combined use with M-NET remote controller (F27MEA, Simple R/C, LOSSNAY R/C) can not be conducted inside a group.

■ Functions

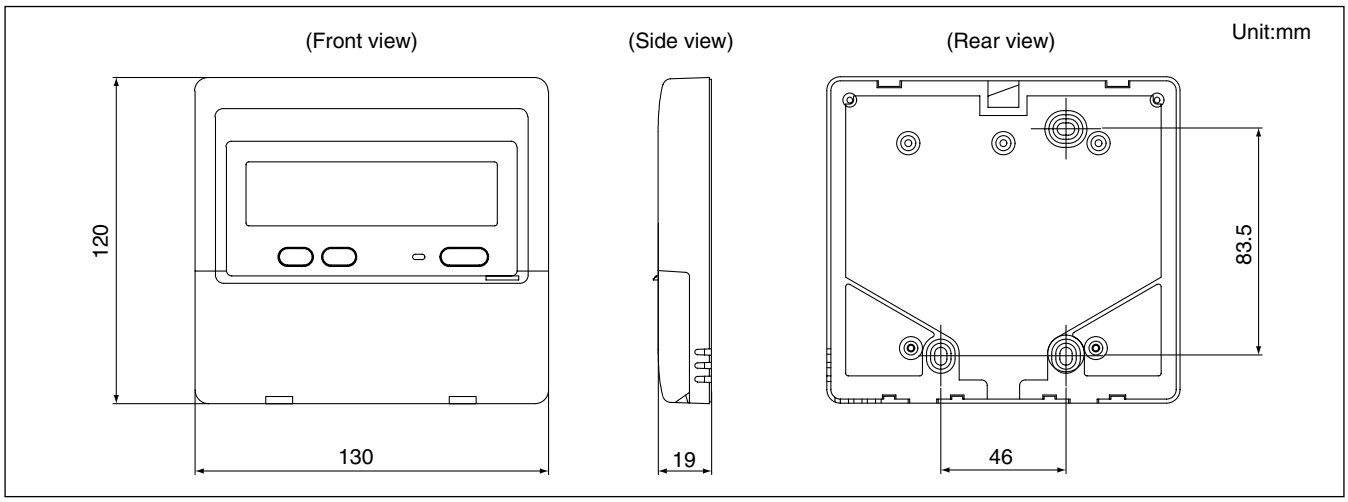
□:Each unit ○:Each group ●:Each block
△:Each floor ◎:Collective ×:Not available

Item	Description	Operations	Display
ON/OFF	Run and stop operation for a single group	○	○
Operation mode switching	Switches between Cool / Dry / Auto / Fan / Heat. Operation modes vary depending on the air conditioner unit. Auto mode is the City Multi R2 and WR2 series only.	○	○
TEMP. Temperature setting	Sets the temperature for a single group Range of temperature setting Cool/Dry : 19˚C - 30˚C (14˚C - 30˚C) Heat : 17˚C - 28˚C (17˚C - 28˚C) Auto : 19˚C - 28˚C (17˚C - 28˚C) ( ) in case of using middle-temperature indoor unit.	○	○
Fan speed setting	Models with 4 air flow speed settings: Hi/Mid-2/Mid-1/Low Models with 3 air flow speed settings: Hi/Mid/Low Models with 2 air flow speed settings: Hi/Low	○	○
Air flow direction setting	Air flow direction angles 100% - 80% - 60% - 40%, Swing, Louver ON/OFF Air flow direction settings vary depending on the model.	○	○
TIMER SET Timer operation	One ON/OFF setting can be set for one day. By connecting the Program timer, set 48 ON/OFF settings every 30 minutes. By loading only one pattern, it can operate as a weekly schedule.	○	○
Permit / Prohibit local operation	Individually prohibit operation of each local remote control function (Start/Stop, Change operation mode, Set temperature, Reset filter). ※1: When the local remote controller inactivation command is received from the master system controller, "- CENTRALLY CONTROLLED -" is displayed.	×	※1 ○
Prohibition/permission of specified mode (Cooling prohibited /heating prohibited /cooling-heating prohibited)	By the setting from System Controller, the operation for the following modes is prohibited. At cooling prohibited : Cool, Dry, Auto, At heating prohibited : Heat, Auto, At cooling-heating prohibited : Cool, Heat, Dry, Auto	×	○
Indoor unit intake temperature	Measures the intake temperature of the indoor unit when the indoor unit is operating.	×	○
Error	When an error is currently occurring on an air conditioner unit, the afflicted unit and the error code are displayed.	×	□
Test run	This operates air conditioner units in test run mode.	○	○
Ventilation equipment	Up to 16 indoor units can be connected to an interlocked system that has one LOSSNAY. LOSSNAY items that can be set are "Hi" "Low" "Stop". Ventilation mode switching is not available.	○	○
External input/output	By connecting the Program timer "PAC-YT32PTA", a weekly schedule can be controlled. External start/stop control and emergency stop is not supported.	○	○

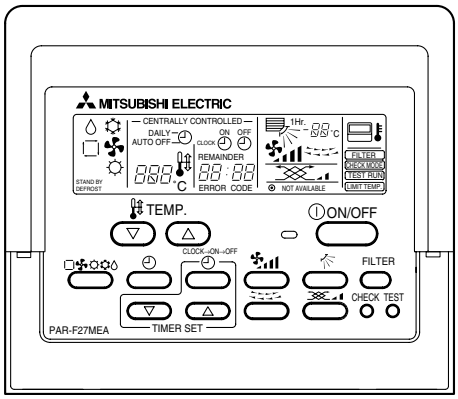
■ System example



■ External dimension

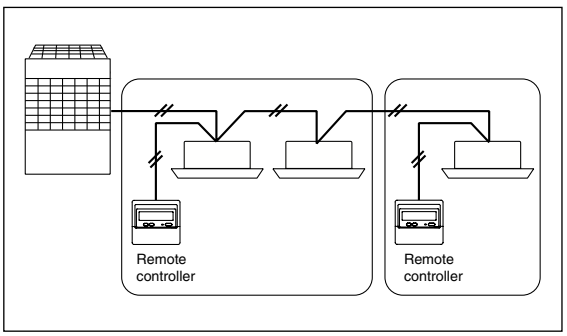


2.2 ME remote controller PAR-F27MEA



- Three timer modes are prepared by enriching the timer function.The timer mode can selectively be used depending on the application configuration.
- The range of room temperature setting can be limited by the initial setting.By setting the room temperature range narrower than usual setting, cooling/heating operation with excessive temperature can be prevented thus saving energy easily.
- Equipped with simplified button locking function.

■ System example

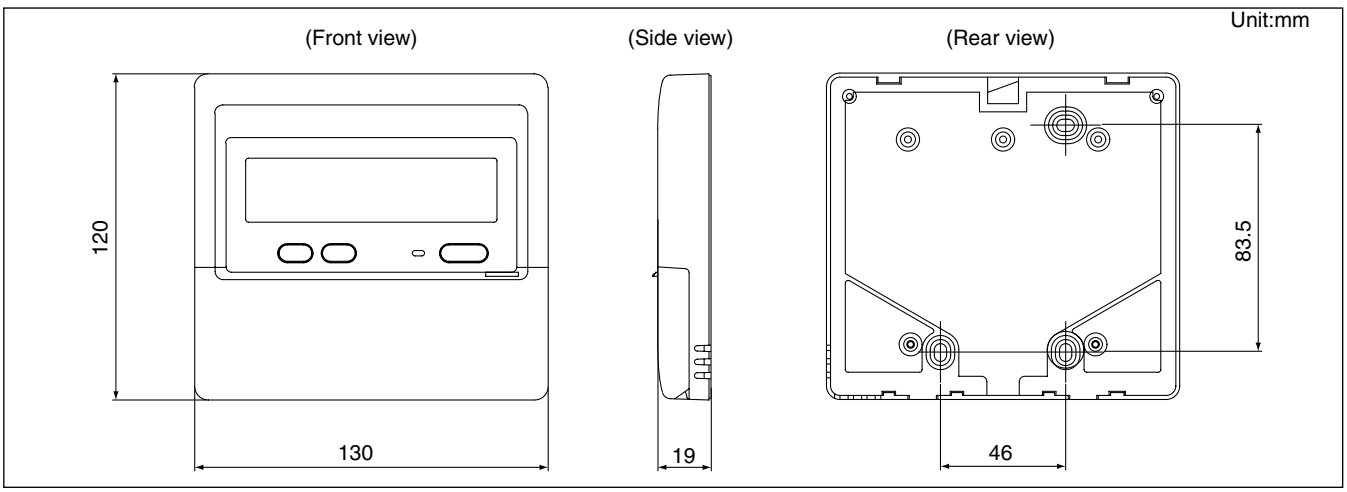


■ External dimension

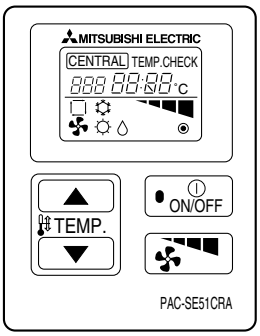
■ Functions

□:Each unit ○:Each group ●:Each block
△:Each floor ◎:Collective ×:Not available

Item	Description	Operations	Display
ON/OFF	Run and stop operation for a single group	○	○
Operation mode switching	Switches between Cool / Dry / Auto / Fan / Heat. Operation modes vary depending on the air conditioner unit. Auto mode is the City Multi R2 and WR2 series only.	○	○
TEMP. Temperature setting	Sets the temperature for a single group Range of temperature setting Cool/Dry : 19˚C - 30˚C (14˚C - 30˚C) Heat : 17˚C - 28˚C (17˚C - 28˚C) Auto : 19˚C - 28˚C (17˚C - 28˚C) ( ) in case of using middle-temperature indoor unit.	○	○
Fan speed setting	Models with 4 air flow speed settings: Hi/Mid-2/Mid-1/Low Models with 3 air flow speed settings: Hi/Mid/Low Models with 2 air flow speed settings: Hi/Low	○	○
Air flow direction setting	Air flow direction angles 100% - 80% - 60% - 40%, Swing, Louver ON/OFF Air flow direction settings vary depending on the model.	○	○
Permit / Prohibit local operation	Individually prohibit operation of each local remote control function (Start/Stop, Change operation mode, Set temperature, Reset filter). *1: When the local remote controller inactivation command is received from the master system controller, "-CENTRALLY CONTROLLED -" is displayed.	×	*1 ○
Prohibition/permission of specified mode (Cooling prohibited /heating prohibited /cooling-heating prohibited)	By the setting from System Controller, the operation for the following modes is prohibited. At cooling prohibited : Cool, Dry, Auto, At heating prohibited : Heat, Auto, At cooling-heating prohibited : Cool, Heat, Dry, Auto	×	○
Indoor unit intake temperature	Measures the intake temperature of the indoor unit when the indoor unit is operating.	×	○
Error	When an error is currently occurring on an air conditioner unit, the afflicted unit and the error code are displayed.	×	□
Timer operation	Thanks to the three timer modes equipped, a proper mode can be selected to meet the usage. One day timer : ON/OFF setting of one time on one day can be applied. Daily timer : ON/OFF setting by the One day timer can be repeated for everyday. Auto OFF timer : OFF timer can be set in a range from 30 minutes to 4 hours. *Setting of Auto OFF timer automatically activates OFF timer at the next operation. This function can be utilized to prevent the negligence of OFF setting. *Weekly schedule in only one patterns can be employed by connecting Program timer. *2	○	○
Test run	This operates air conditioner units in test run mode.	○	○
Ventilation equipment	Up to 16 indoor units can be connected to an interlocked system that has one LOSSNAY. LOSSNAY items that can be set are "Hi" "Low" "Stop". Ventilation mode switching is not available.	○	○
Function to limit the setting range of room temperature (Set temperature range limit)	The range of room temperature setting can be limited by the initial setting.The lowest limit temperature can be made higher than the usual (19˚C) at cooling/drying, while the upper limit temperature lower than the usual (28˚C) at heating.	○	○
Easy-to-operate simplified locking function (Auto lock function)	Setting/releasing of simplified locking for remote control switch can be performed. · Locking of all switches · Locking of all switches except Start/Stop switch	○	○
External input/output	By connecting the Program timer "PAC-YT32PTA", a weekly schedule can be controlled. External start/stop control and emergency stop is not supported.	○	○



2.3 Simple ME controller PAC-SE51CRA



- To simplify operation of the system, the range of controls has been limited to temperature and fan speed.
- The only wiring required is cross-over wiring based on two-wire signal lines.
- Room temperature sensor is built-in to the unit. The indoor unit can be replaced this with the body thermostat.

※: This equipment does not have functions such as operation mode switching, test run mode, self checking ability and settings for interlocking. Therefore, always use this equipment together with a PAR-F27ME or other system controller.

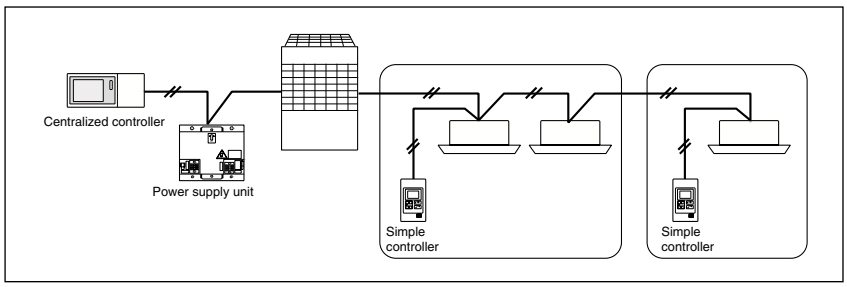
※: Combined use with MA remote controller (PAR-20MAA) can not be conducted inside a group.

■ Functions

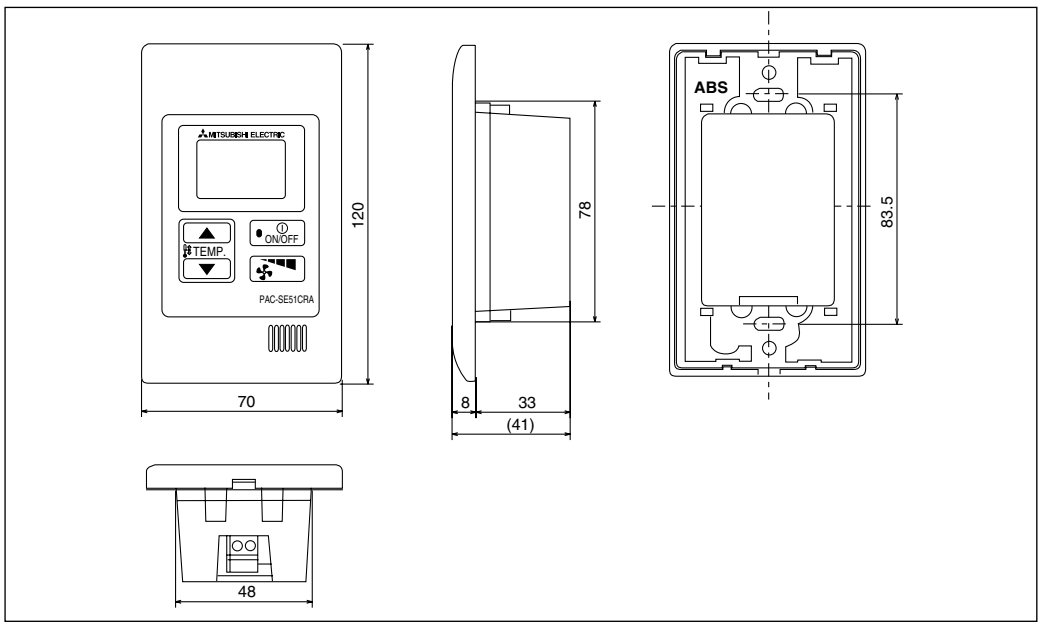
□:Each unit ○:Each group ●:Each block
△:Each floor ◎:Collective ×:Not available

Item	Description	Operations	Display
ON/OFF	Run and stop operation for a single group	○	○
Operation mode switching	Switches between Cool / Dry / Auto / Fan / Heat. Operation modes vary depending on the air conditioner unit. Auto mode is the City Multi R2 and WR2 series only.	×	○
Temperature setting	Sets the temperature for a single group Range of temperature setting Cool/Dry : 19˚C - 30˚C (14˚C - 30˚C) Heat : 17˚C - 28˚C (17˚C - 28˚C) Auto : 19˚C - 28˚C (17˚C - 28˚C) ( ) in case of using middle-temperature indoor unit.	○	○
Fan speed setting	Models with 4 air flow speed settings: Hi/Mid-2/Mid-1/Low Models with 2 air flow speed settings: Hi/Low	○	○
Air flow direction setting	Air flow direction angles 100% - 80% - 60% - 40%, Swing, Louver ON/OFF Air flow direction settings vary depending on the model.	×	×
Timer operation	Not available	×	×
Permit / Prohibit local operation	Individually prohibit operation of each local remote control function (Start/Stop, Set temperature). ※1: When the local remote controller inactivation command is received from the master system controller, "- CENTRALLY CONTROLLED -" is displayed.	×	※1 ○
Indoor unit intake temperature	Measures the intake temperature of the indoor unit only when the indoor unit is operating.	×	×
Error	When an error is currently occurring on an air conditioner unit, the afflicted unit and the error code are displayed.	×	□
Test run	This operates air conditioner units in test run mode. ※2: The display for test run mode will be the same as for normal start/stop (no display "test run").	×	※2 ○
Ventilation equipment	Up to 16 indoor units can be connected to an interlocked system that has one LOSSNAY.	×	×
Function to limit the setting range of room temperature (Set temperature range limit)	The range of room temperature setting can be limited by the initial setting.The lowest limit temperature can be made higher than the usual (19˚C) at cooling/drying, while the upper limit temperature lower than the usual (28˚C) at heating. ※ This function is available only when applying together with TG-2000A and G-50A.	○	○
External input/output	By connecting the Program timer, allocate A/B2 mode for a week and control a week's schedule. External start/stop control and emergency stop is not supported.	×	×

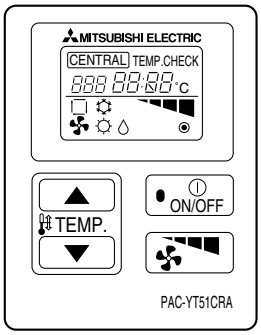
■ System example



■ External dimension



2.4 Simple MA controller PAC-YT51CRA



- To simplify operation of the system, the range of controls has been limited to temperature and fan speed.
- The only wiring required is cross-over wiring based on two-wire signal lines.
- Room temperature sensor is built-in to the unit. The indoor unit can be replaced this with the body thermostat.

※: This equipment does not have functions such as operation mode switching, test run mode, self checking ability and settings for interlocking. Therefore, always use this equipment together with a PAR-20MAA or other system controller.

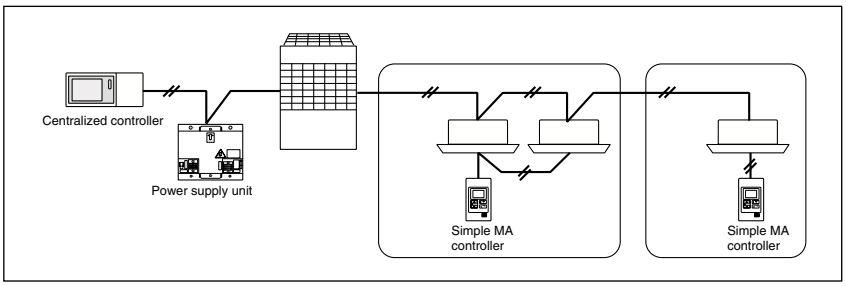
※: Combined use with M-NET remote controller (PAR-F27MEA) can not be conducted inside a group.

■ Functions

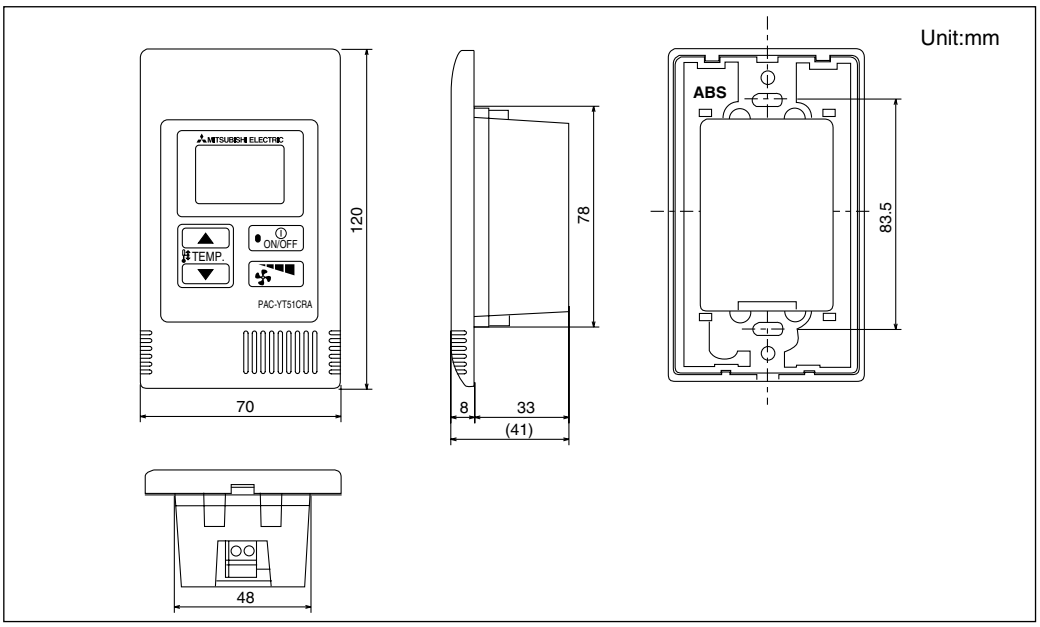
□:Each unit ○:Each group ●:Each block
△:Each floor ◎:Collective ×:Not available

Item	Description	Operations	Display
ON/OFF	Run and stop operation for a single group	○	○
Operation mode switching	Switches between Cool / Dry / Auto / Fan / Heat. Operation modes vary depending on the air conditioner unit. Auto mode is the City Multi R2 and WR2 series only.	×	○
Temperature setting	Sets the temperature for a single group Range of temperature setting Cool/Dry : 19˚C - 30˚C (14˚C - 30˚C) Heat : 17˚C - 28˚C (17˚C - 28˚C) Auto : 19˚C - 28˚C (17˚C - 28˚C) ( ) in case of using middle-temperature indoor unit.	○	○
Fan speed setting	Models with 4 air flow speed settings: Hi/Mid-2/Mid-1/Low Models with 3 air flow speed settings: Hi/Mid/Low Models with 2 air flow speed settings: Hi/Low	○	○
Air flow direction setting	Air flow direction angles 100% - 80% - 60% - 40%, Swing, Louver ON/OFF Air flow direction settings vary depending on the model.	×	×
Timer operation	Not available	×	×
Permit / Prohibit local operation	Individually prohibit operation of each local remote control function (Start/Stop, Set temperature). ※1: When the local remote controller inactivation command is received from the master system controller, "- CENTRALLY CONTROLLED -" is displayed.	×	※1 ○
Indoor unit intake temperature	Measures the intake temperature of the indoor unit only when the indoor unit is operating.	×	×
Error	When an error is currently occurring on an air conditioner unit, the afflicted unit and the error code are displayed.	×	□
Test run	This operates air conditioner units in test run mode. ※2: The display for test run mode will be the same as for normal start/stop (no display "test run").	×	※2 ○
Ventilation equipment	Up to 16 indoor units can be connected to an interlocked system that has one LOSSNAY.	×	×
External input/output	By connecting the Program timer, allocate A/B2 mode for a week and control a week's schedule. External start/stop control and emergency stop is not supported.	×	×

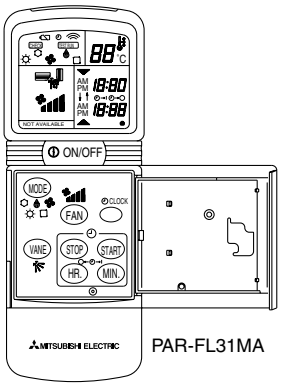
■ System example



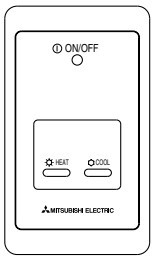
■ External dimension



2.5 Wireless remote controller
PAR-FL31MA
PAR-FA31MA



PAR-FL31MA



PAR-FA31MA
(Signal receiving unit)

- It can operate in a group system without requiring address settings.
- When operating, it displays LED lamps. When errors occur, the error code can be shown by the LED flash count.

⁕: If an indoor unit with different functionality is operating inside the same group, please note there may be cases when functionality is partially disabled for batch control.
⁕: Wireless remote controllers can only be used for a single refrigerant system.
⁕: If you use a system controller to centrally control a group, you will need cross-wiring between indoor units when using a wireless remote controller.
Also ensure there is no difference between the group setting of the master system controller and the cross wiring across indoor units when wiring and setting cross wires.

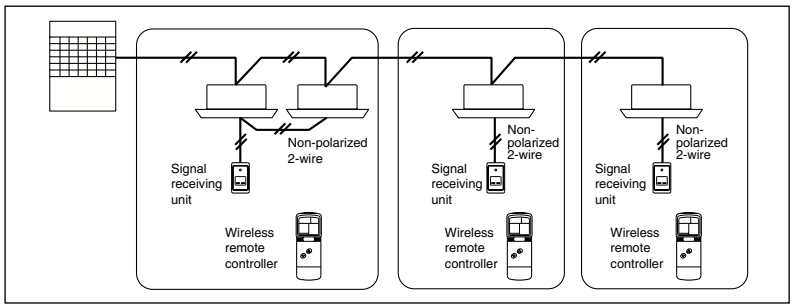
■ Functions

□:Each unit ○:Each group ●:Each block
△:Each floor ◎:Collective ×:Not available

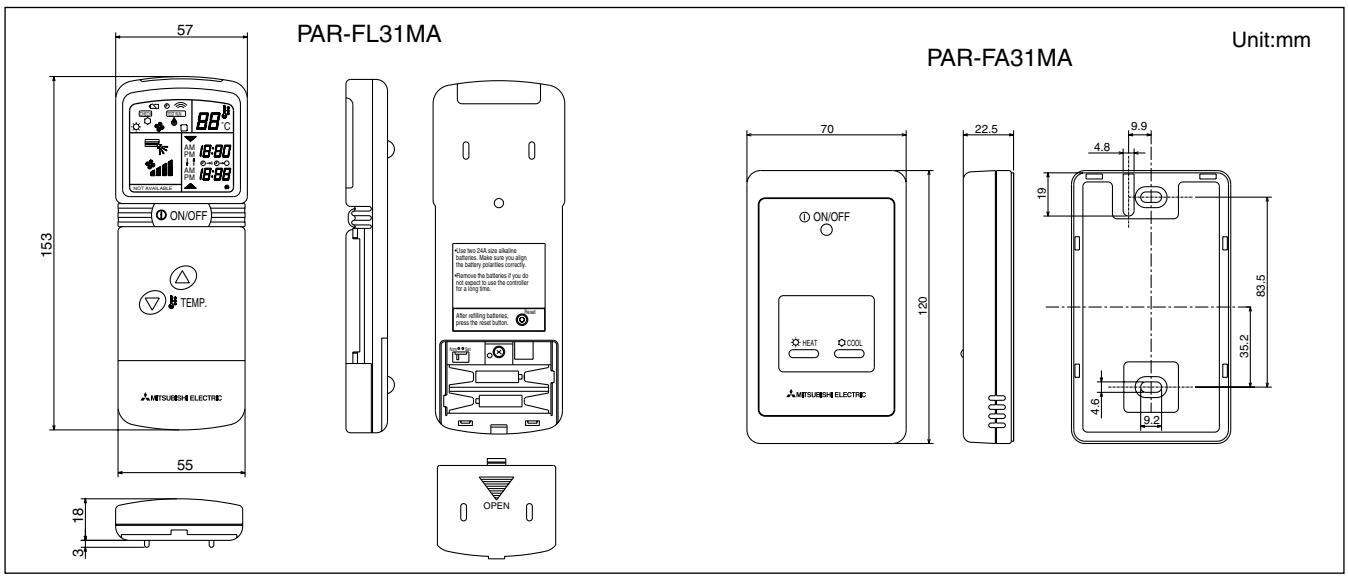
Item	Description	Operations	Display
ON/OFF	Run and stop operation for a single group	○	○
Operation mode switching	Switches between Cool / Dry / Fan / Heat / Auto. Operation modes vary depending on the air conditioner unit. Auto mode is the City Multi R2 and WR2 series only.	○	○
Temperature setting	Sets the temperature for a single group Range of temperature setting Cool/Dry : 19˚C - 30˚C Heat : 17˚C - 28˚C Auto : 19˚C - 28˚C	○	○
Fan speed setting	Models with 4 air flow speed settings: Hi/Mid-2/Mid-1/Low Models with 2 air flow speed settings: Hi/Low	⁕	⁕
Air flow direction setting	Air flow direction angles 100% - 80% - 60% - 40%, Swing. Air flow direction settings vary depending on the model.	⁕	⁕
Timer operation	One ON/OFF setting can be set for one day.	○	○
Permit / Prohibit local operation	Individually prohibit operation of each local remote control function (Start/Stop, Change operation mode, Set temperature, Reset filter). ⁕1: If operation is performed when the local remote controller inactivation command is received from the master system controller, a buzzer will ring and an LED will flash.	×	⁕1 ○
Indoor unit intake temperature	Measures the intake temperature of the indoor unit when the indoor unit is operating.	×	×
Error	When an error occurs on the air conditioner unit, the operation lamp on the signal receiving unit will flash.	×	○
Test run	This operates air conditioner units in test run mode.	○	○
Ventilation equipment	Up to 16 indoor units can be connected to an interlocked system that has one LOSSNAY.	×	×
External input/output	By connecting the Program timer, allocate A/B2 mode for a week and control a week's schedule.	×	×

⁕ Some models will have different display for the air flowdirection and fan speed.
Set the air flow direction and fan speed when performing initial setting.

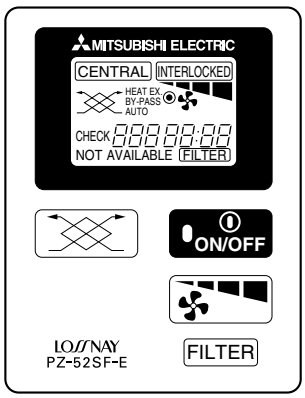
■ System example



■ External dimension



2.6 LOSSNAY remote controller PZ-52SF-E



- Stand-alone LOSSNAY operation is possible by commands from a centralized controller or LOSSNAY remote controller. (G-50A is a centralized controller that supports LOSSNAY operation.)
- The LOSSNAY remote controller is capable of changing the air flow and vent modes.
- All the wiring is cross-wiring that uses non-polar two wire system signal cables.

※ : When setting up a LOSSNAY stand-alone system or when setting up a LOSSNAY and centralized controller system, connect a power supply unit for the signal cables.

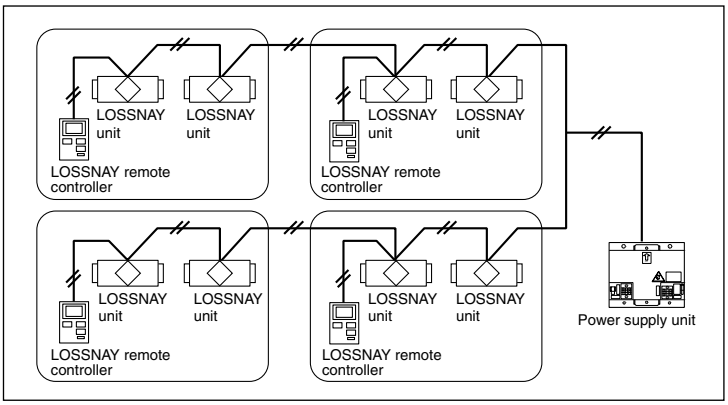
※ : It is impossible to use a LOSSNAY remote controller for LOSSNAY unit that is interlocked other indoor unit (except for some models).

■ Functions

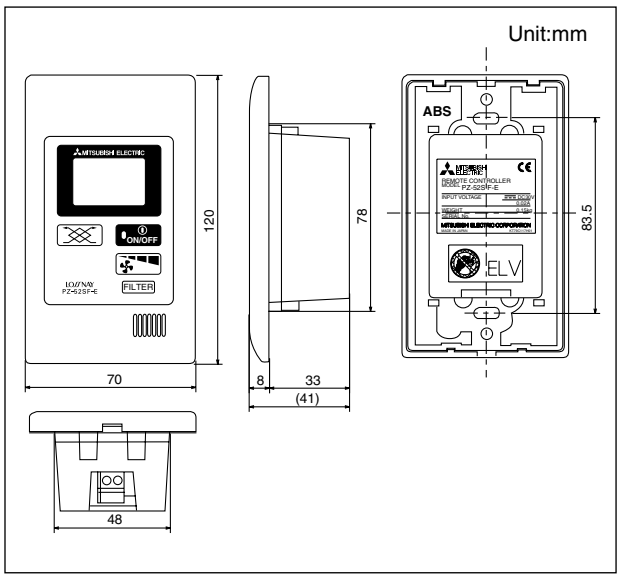
□:Each unit ○:Each group ●:Each block
△:Each floor ◎:Collective ×:Not available

Item	Description	Operations	Display
ON/OFF	Run and stop operation for a LOSSNAY unit	○	○
Operation mode switching	Switches between automatic ventilation/ vent - heat interchange/ normal ventilation Note: Operation modes vary depending on the model. When connecting to only models without a damper, these models cannot be used.("NOT AVAILABLE" will appear in the display.)	○	○
Temperature setting	Not available	×	×
Fan speed setting	Models with 2 air flow speed settings: Hi/Low When only connected to single notch models, this function is disabled.	○	○
Air flow direction setting	Not available	×	×
Timer operation	Not available	×	×
Permit / Prohibit local operation	Individually prohibit operation of each local remote control function (Start/Stop, Reset filter). ※1: When the local remote controller inactivation command is received from a master system controller, " CENTRAL " is displayed.	×	※1 ○
Indoor unit intake temperature	Not available	×	×
Error	When an error occurs on the air conditioner unit, the operation lamp on the signal receiving unit will flash.	×	□
Test run	There is no test run switch for LOSSNAY remote controllers. Set test run on a LOSSNAY by using the test run switch on the LOSSNAY unit. ※2: Cancel by operating the start/stop switch after switching off the LOSSNAY unit test run switch.	※2 ×	○
Ventilation equipment	Up to 16 indoor units can be connected to an interlocked system that has one LOSSNAY.	○	○
Interlocked operation	This is displayed to indicate it is being operated by an operation control unit's external control terminal for an interlocked system that contains LOSSNAY units and indoor units.	×	○
External input/output	The program timer (PAC-YT30ST) cannot be connected. When external ON/OFF is required, use the LOSSNAY unit's external control input.	×	×

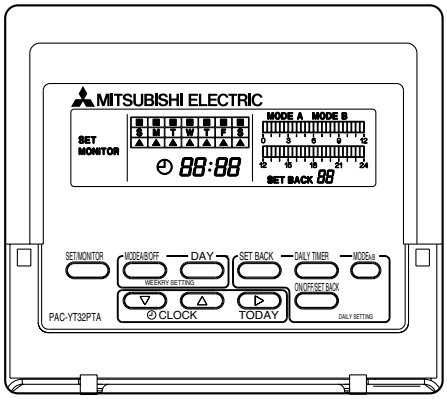
■ System example



■ External dimension



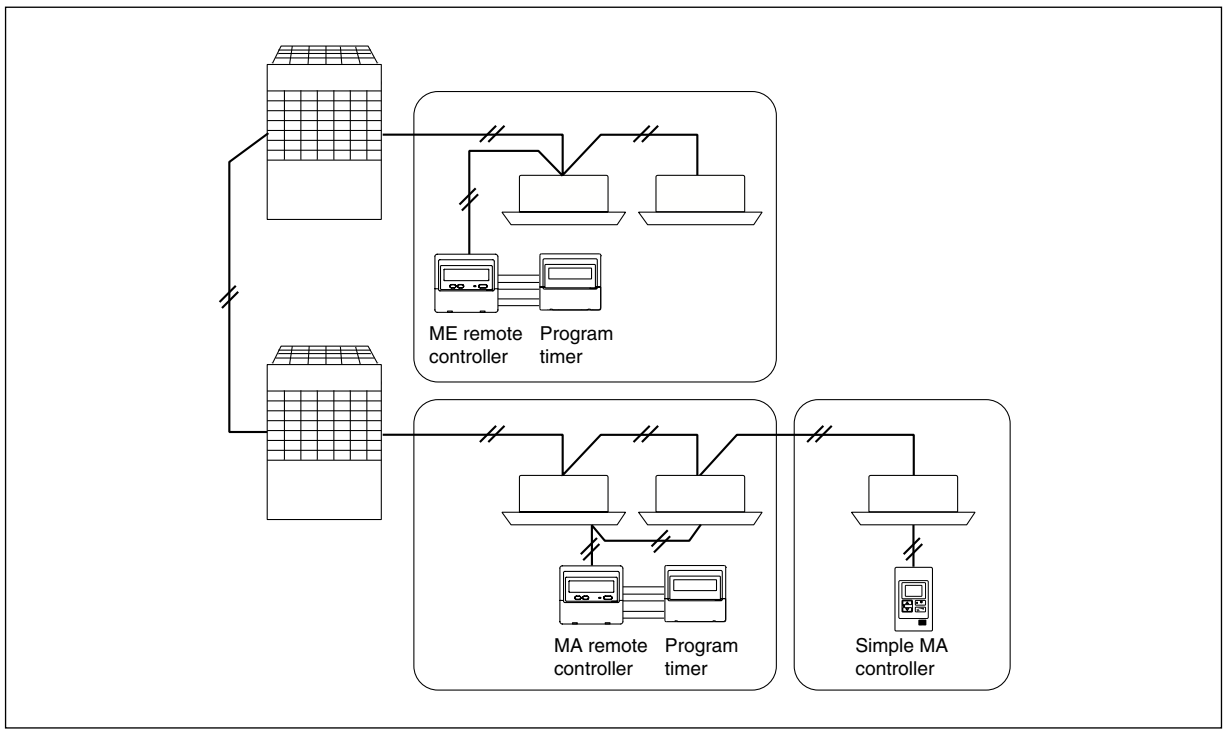
2.7 Program timer PAC-YT32PTA



- "Setback*" operation can also be selected at the same time, eliminating unnecessary air conditioning costs, in addition to the regular management of operating time.
- On/Off management at 30-minute intervals allows you to achieve precision optimal scheduling.
- Either the PAR-20MAA, PAR-F27MEA or the PAC-SC30GRA can function as a set.

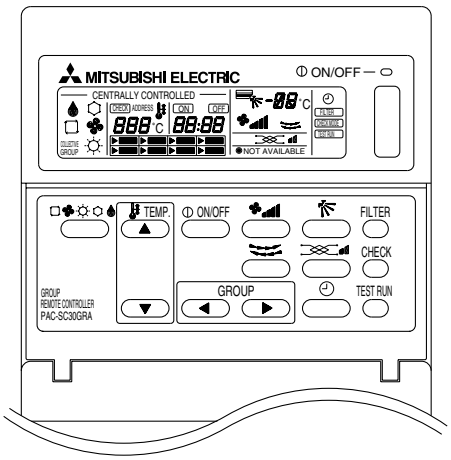
*Choose from 0˚C, 1˚C, 2˚C, 4˚C, 6˚C, or 8˚C for "setback operation" .

■ System example



3. System remote controller

3.1 Group remote controller PAC-SC30GRA



- Up to 8 groups can be operated (maximum of 16 units). Just by pressing switches, groups can be started and stopped individually, or all groups can be started and stopped as a batch.
- Detailed settings and operations can also be made for each individual group.
- All the wiring is simply done with non-polarized two wire signal lines. The connection is the same as the connection to the master system controller.
- It supports operation of groups that can extend beyond one refrigerant system. Furthermore, it is possible to drive interlocked systems that use ventilator equipment or drive ventilator equipment in a stand-alone situation.

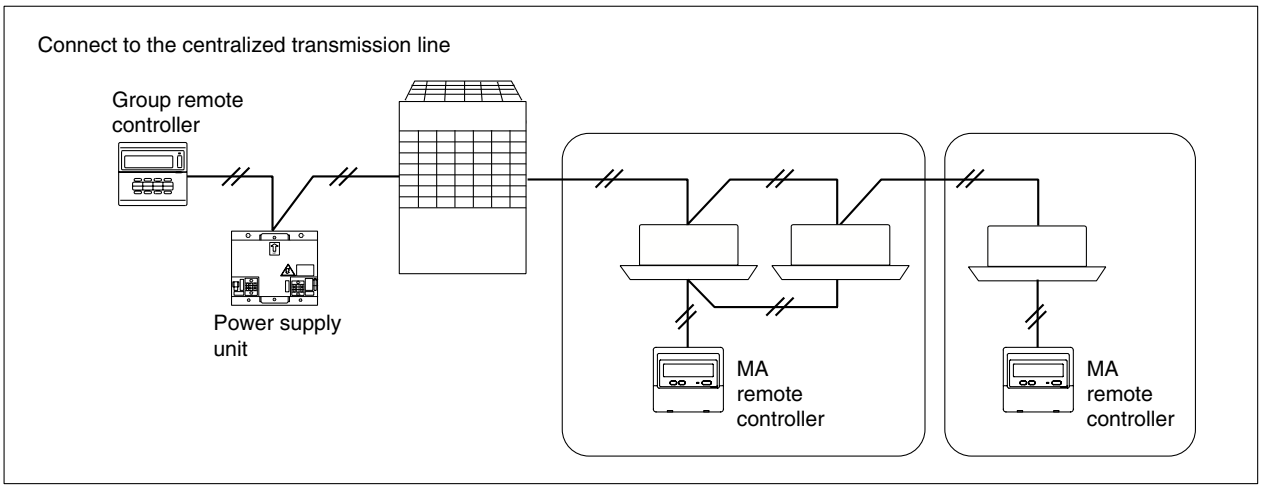
※: With the group remote controller, you cannot control groups that only contain the LOSSNAY remote controller.
※: It is impossible to use the group remote controller to control K control units.
※: When connecting to signal cables for central control, it must use a power supply unit for the signal cables.

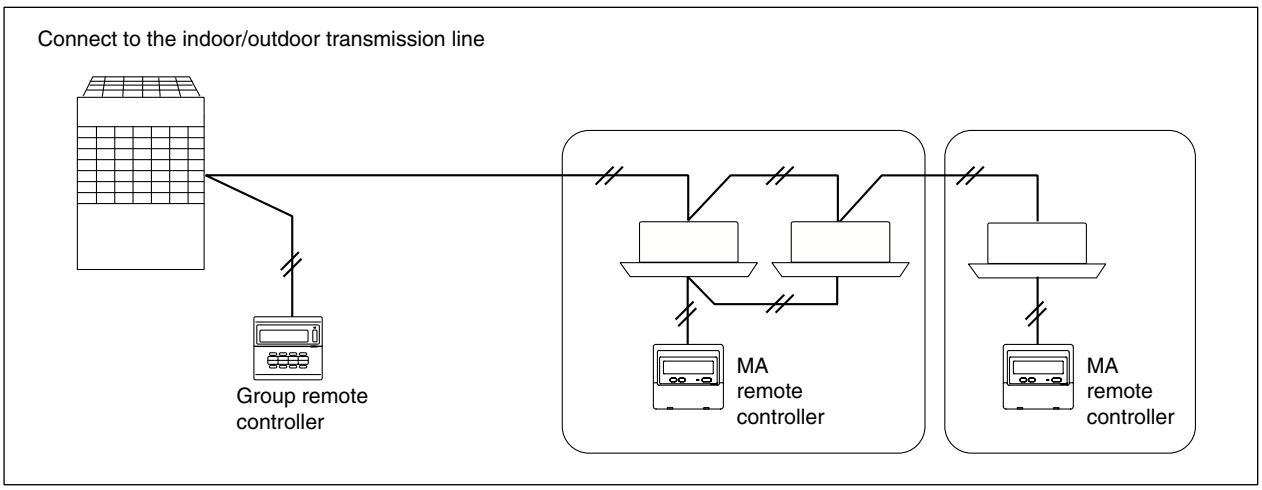
■ Functions

□:Each unit ○:Each group ●:Each block
△:Each floor ◎:Collective ×:Not available

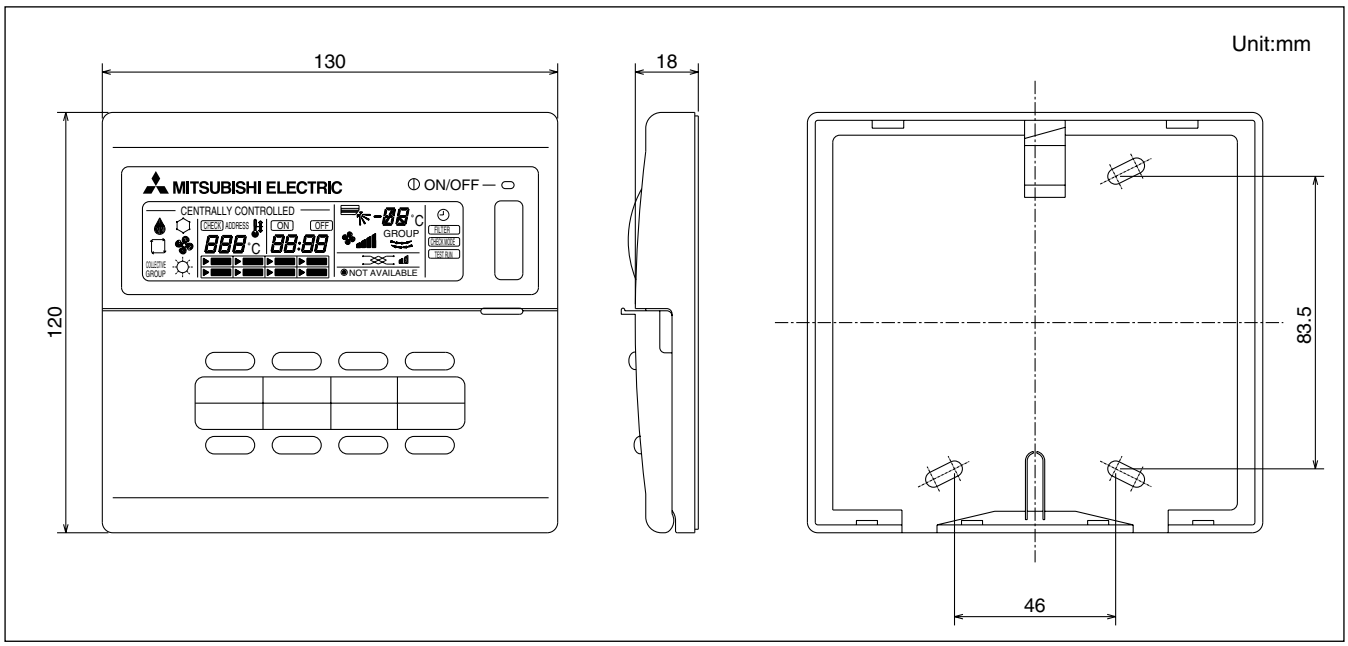
Item	Description	Operations	Display
ON/OFF	Run and stop operation for the air conditioner units ※1: Even when only a single indoor unit connected to the group remote controller is operated, the collective ON/OFF lamp will light up.	○◎	※1 ○◎
Operation mode switching	Switches between Cool / Dry / Auto / Fan / Heat. ※2: When collective operation is set, the display will show "COLLECTIVE" in the bottom left of the LCD screen. Operation modes vary depending on the air conditioner unit. Auto mode is the City Multi R2 and WR2 series only.	○◎	※2 ○
Temperature setting	Sets the temperature for a single group Range of temperature setting Cool/Dry : 19˚C - 30˚C Heat : 17˚C - 28˚C Auto : 19˚C - 28˚C ※3: When collective operation is set, the display will show "COLLECTIVE" in the bottom left of the LCD screen.	○◎	※3 ○
Fan speed setting	Models with 4 air flow speed settings: Hi/Mid-2/Mid-1/Low Models with 3 air flow speed settings: Hi/Mid/Low Models with 2 air flow speed settings: Hi/Low ※4: When collective operation is set, the display will show "COLLECTIVE" in the bottom left of the LCD screen.	○◎	※4 ○
Air flow direction setting	Air flow direction angles 100% - 80% - 60% - 40%, Swing, Louver ON/OFF Air flow direction settings vary depending on the model. ※5: When collective operation is set, the display will show "COLLECTIVE" in the bottom left of the LCD screen.	○◎	※5 ○
Timer operation	It is impossible to set schedules by only using this group remote controller. By connecting a program timer, set 48 ON/OFF settings every 30 minutes. By loading only one pattern, it can operate as a weekly schedule. ※6: If the Program timer is connected, you can enable/disable timer operation for each group.	※6 ○◎	○
Permit / Prohibit local operation	Individually prohibit operation of each local remote control function (Start/Stop, Change operation mode, Set temperature, Reset filter). ※7: When the local remote controller inactivation command is received from a master system controller, "- CENTRALLY CONTROLLED -" is displayed.	×	※7 ○
Indoor unit intake temperature	Measures the intake temperature of the indoor unit only when the indoor unit is operating.	×	○
Error	When an error is currently occurring on an air conditioner unit, the afflicted unit and the error code are displayed. ※8: This is indicated by the batch operation lamp.	×	※8 □◎
Test run	This operates air conditioner units in test run mode.	○	○
Ventilation equipment	Up to 16 indoor units can be connected to an interlocked system that has one LOSSNAY. LOSSNAY items that can be set are "Hi" "Low" "Stop". Ventilation mode switching is not possible. ※9: When collective operation is set, the display will show "COLLECTIVE" in the bottom left of the LCD screen.	○◎	※9 ○
External input/output	By connecting the Program timer "PAC-YT32PTA", a weekly schedule can be controlled. External start/stop control and emergency stop is not supported.	○◎	○

■ System example

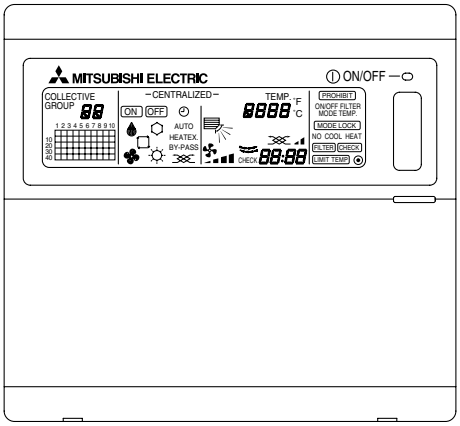




■ External dimension



3.2 System remote controller PAC-SF44SRA



- ● 50 groups/50 units of air conditioners can be controlled.
  - · Up to 50 groups/50 units of air conditioners can be operated with one remote controller.
- ● Operation status displayed on easy-to-read LCD
  - · The group currently operating can be seen at a glance with the operation status display for each group.
- ● Simple remote controller limited to basic operations.
  - · The only operations required for the air conditioner are "ON/OFF", "Operation mode changeover", "Temperature setting" and "Prohibit operation by local remote controller", so anyone can easily operate the unit.
  - · Using collective control from the system remote controller, operation mode settings using the local remote controllers can be prohibited. (Operation mode limit function)

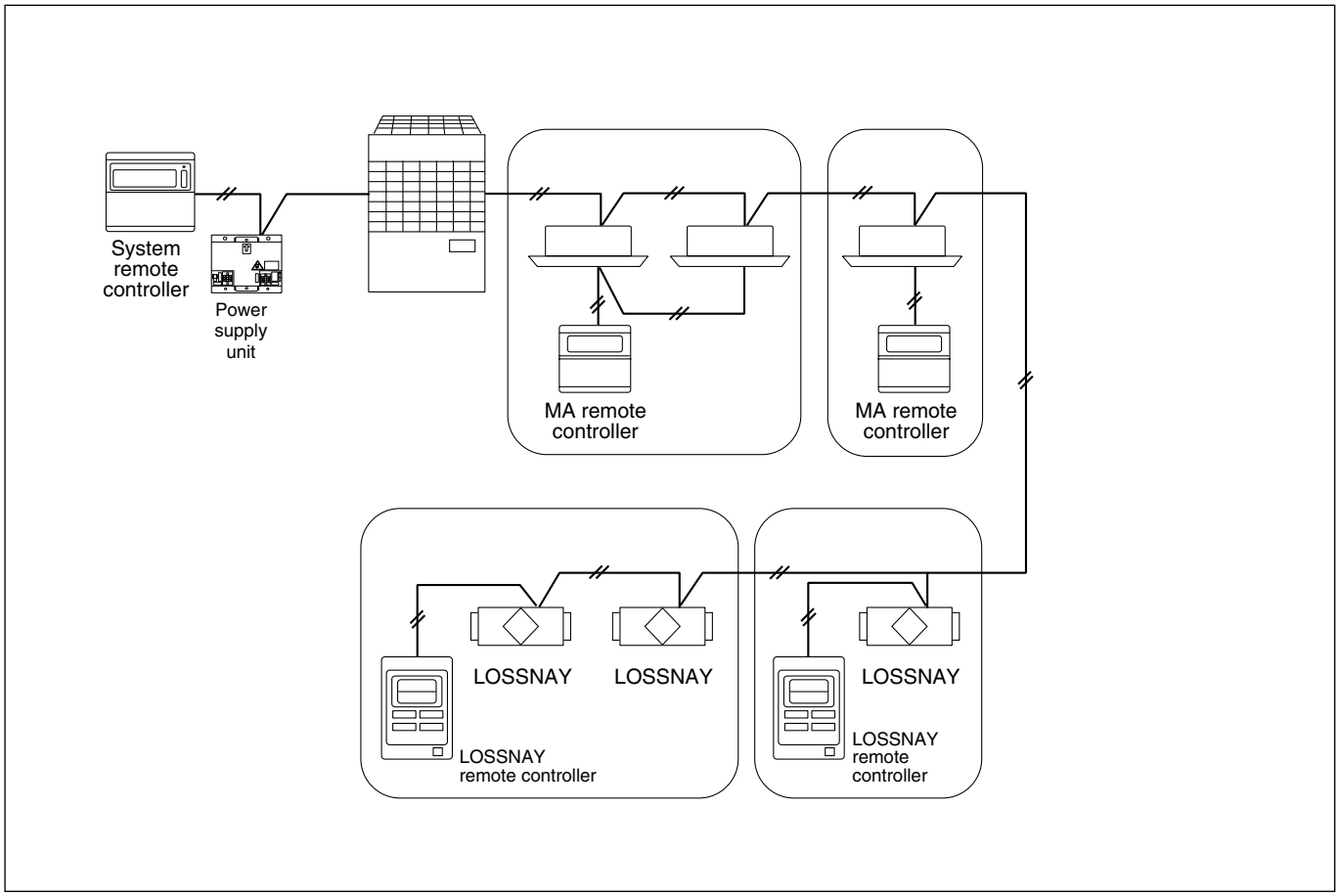
- ● Schedule operation is available
  - · Groups of air conditioners are available for operation at a set schedule using the Schedule timer (PAC-YT34STA).
- ● Independent LOSSNAY operation is possible
  - · LOSSNAY units can be grouped the same as the Central remote controller and ON/OFF remote controller.
  - · "Automatic ventilation", "Normal ventilation" and "Ventilation with heat exchanger" can be switched from the system controller.

■ Functions

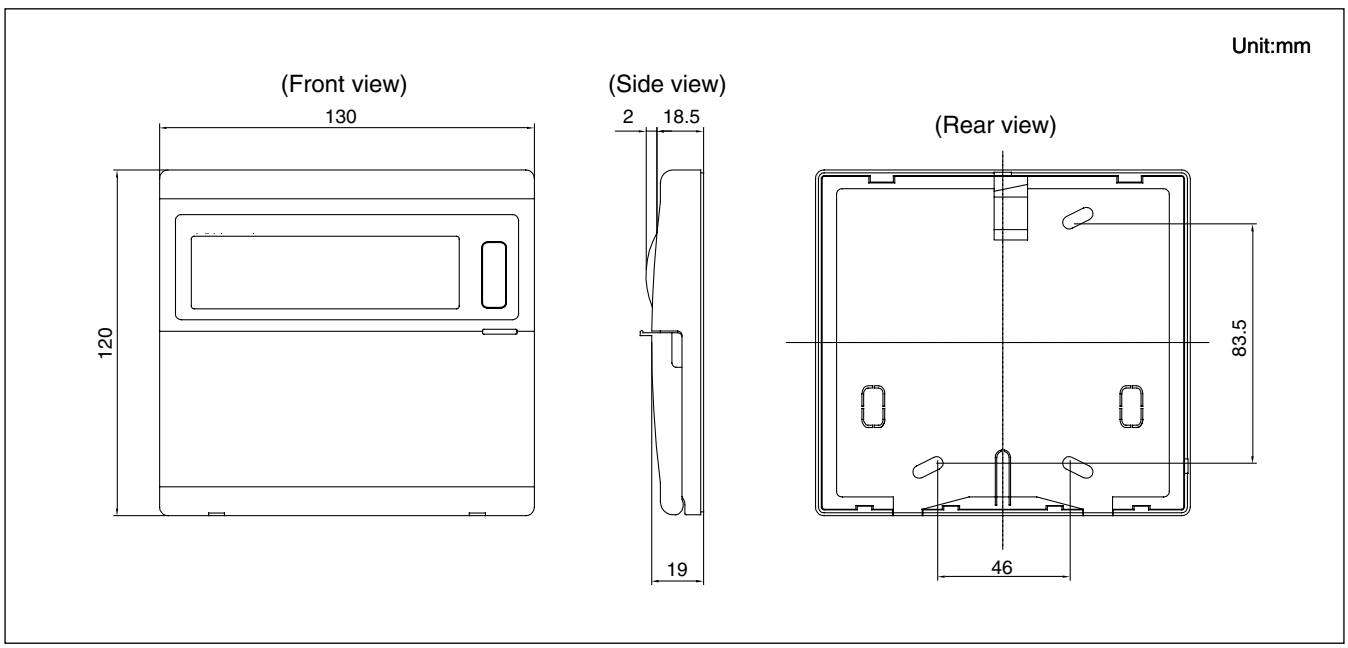
□: Each unit ○: Each group ●: Each block
△: Each floor ◎: Collective ×: Not available

Item	Remarks	Operations	Display
ON/OFF	Run and stop operation for the air conditioner units	◎	◎
Operation mode switching	Switches between Cool / Dry / Auto / Fan / Heat. ✻ There are modes that cannot be selected depending on the unit.	◎	○
Temperature setting	The temperature can be set within the following range. Values in parentheses are for the medium-temperature indoor unit. Cool/Dry : 19˚C - 30˚C (14˚C - 30˚C) Heat : 17˚C - 28˚C (17˚C - 28˚C) Auto : 19˚C - 28˚C (17˚C - 28˚C) ( ) in case of using middle-temperature indoor unit.	◎	○
Fan speed setting	The fan speed cannot be set.	◎	◎
Air flow direction setting	The air flow direction cannot be set.	◎	◎
Manual operation prohibit/permit (ON/OFF, mode change, setting temperature, filter reset)	When set as the master, the ON/OFF, operation mode, setting temperature and filter sign reset operations using the local remote controllers can be prohibited. ✻ [PROHIBIT] will appear when prohibited. Only ON/OFF and filter reset can be prohibited for the LOSSNAY group.	◎	◎
Specific mode operation prohibit (Cooling prohibit, heating prohibit, cooling/heating prohibit)	When set as the master, operation of the following modes with the local remote controllers can be prohibited. When cooling is prohibited: Cooling, dry, automatic can not be chosen. When heating is prohibited: Heating, automatic can not be chosen. When cooling/heating is prohibited: Cooling, dry, heating, automatic can not be chosen.	◎	◎
Room temperature display	The room temperature cannot be displayed.	–	×
Error display	The details of the currently occurring error are displayed with the address. ✻ The address may not be displayed depending on the details of the error.	–	◎
Schedule operation	Two patterns of weekly schedules can be operated with the Schedule timer.(PAC-YT34STA) ✻ The schedule validity can be set for each group.	△	△
Ventilation (independent)	Group operation of only the free plan LOSSNAY is possible. ✻ The operation mode of these groups is automatic ventilation, ventilation with heat exchanger and normal ventilation.	○	○
Ventilation (interlocked)	The LOSSNAY will run in interlock with the operation of indoor unit. ✻ The fan rate and mode cannot be changed. The LED will turn ON during operation after interlocking.	△	△

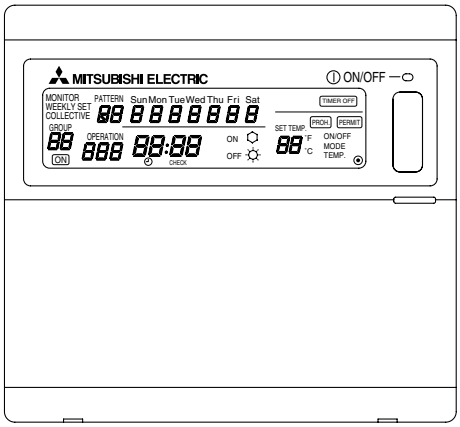
■ System example



■ External dimension



3.3 Schedule timer PAC-YT34STA



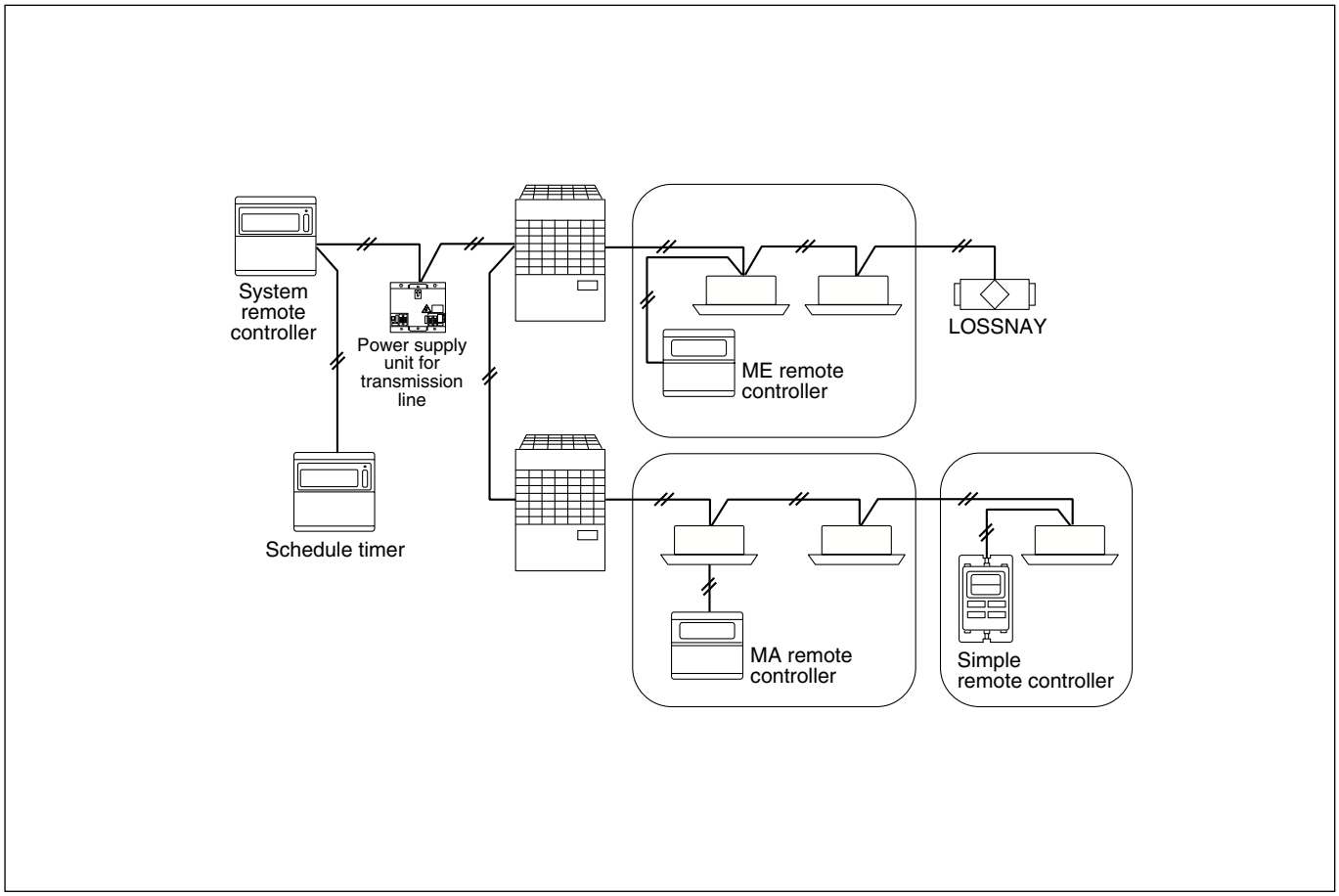
- The weekly schedule of up to 50 groups/50 units can be controlled with one schedule timer.
- The weekly schedule of up to ten patterns (no setting + nine patterns) is available for setting.
- "ON/OFF", "Operation Prohibit", "COOL/HEAT" and "Set Temperature" can be scheduled with up to 16 settings in one pattern.
- It can be connected to the central control transmission line or to the indoor/outdoor transmission line without the power supply unit. It is non-polar 2-wire.
- It can be interlocked with a building management system using the external input/output managing function.
- An error unit address and error code appear on the display in case of malfunction happening.

■ Functions

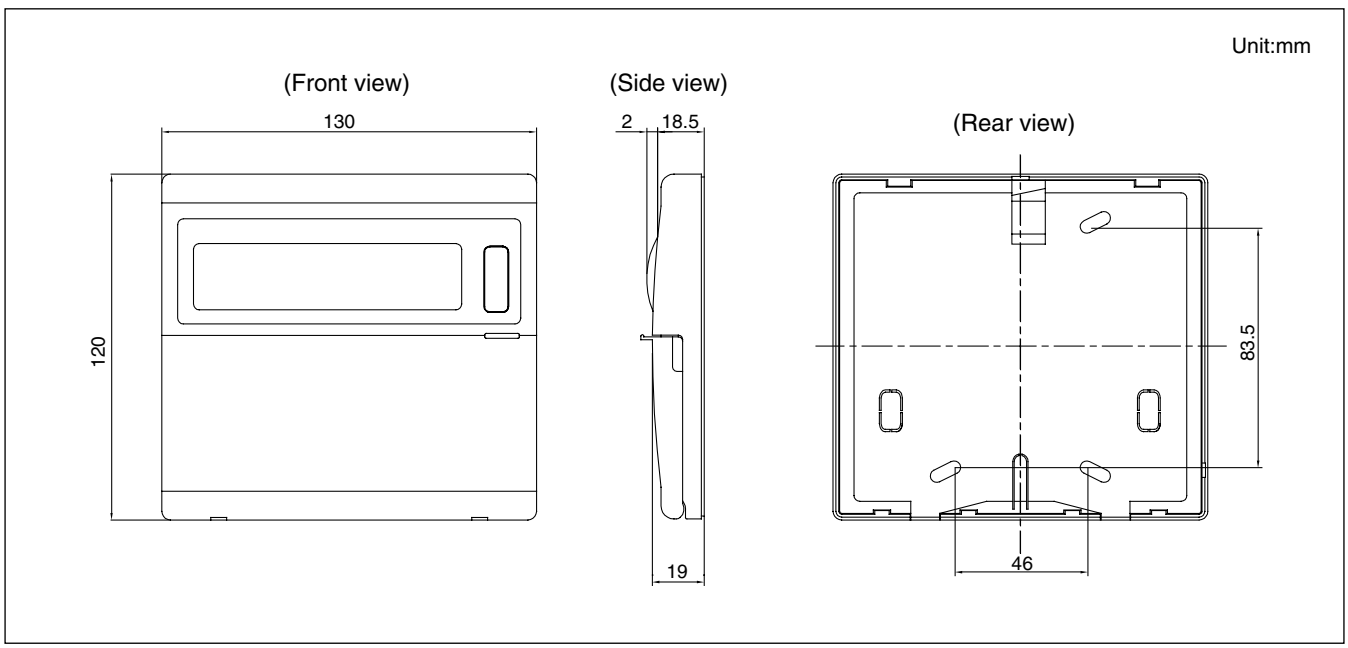
□: Each unit ○: Each group ●: Each block
△: Each floor ◎: Collective ×: Not available

Item		Details	Operations	Display
Unit control		50 units/50 groups (Maximum 16 units connected in one group)	◎	○
Schedule control		One week	○	○
Operation	ON/OFF	ON/OFF operations can be carried out collectively or for each group.	○	○
	Timer reset	The timer setting details can be disabled collectively	○	—
Schedule function	Setting details	ON/OFF COOL/HEAT Room temperature setting (19°C to 28°C) Operation prohibit (ON/OFF, operation mode, setting temperature)	○	—
	Number of settings	Number of setting patterns: Ten (no setting + nine patterns) (Operation for a week can be set by selecting one of ten patterns for each day.) Number of operations: Up to 16 operations can be set in one pattern	○	—
	Time setting unit	The item can be set in five-minute units	○	—
Display		Current time and day	—	○
		Error state	—	○
		Unit operation state	—	×
External input (Timer connection, emergency stop input, etc.)		The following can be input with the level signals or pulse signals. Level signal: "Emergency stop input" or "Collective ON/OFF" Pulse signal: "Collective ON/OFF" or "Local remote controller prohibit/permit" One input can be selected from those above.	○	—
External output (Error output, operation output)		"ON/OFF" and "error/normal" are output with the level signal. ※ The optional output cable is required.	○	—
Connection position		Indoor/outdoor transmission line: Connectable Central system transmission line: Connectable (Optional power supply unit (PAC-SC34KUA) is needed.)	—	—

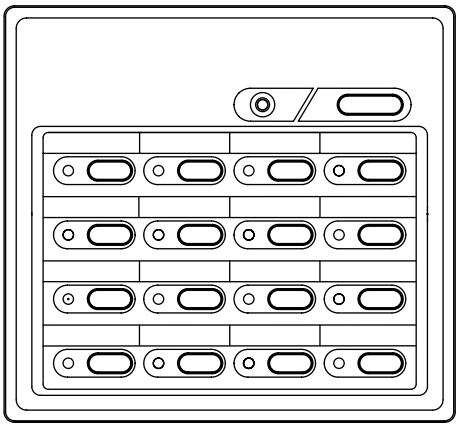
■ System example



■ External dimension



3.4 ON/OFF remote controller PAC-YT40ANRA



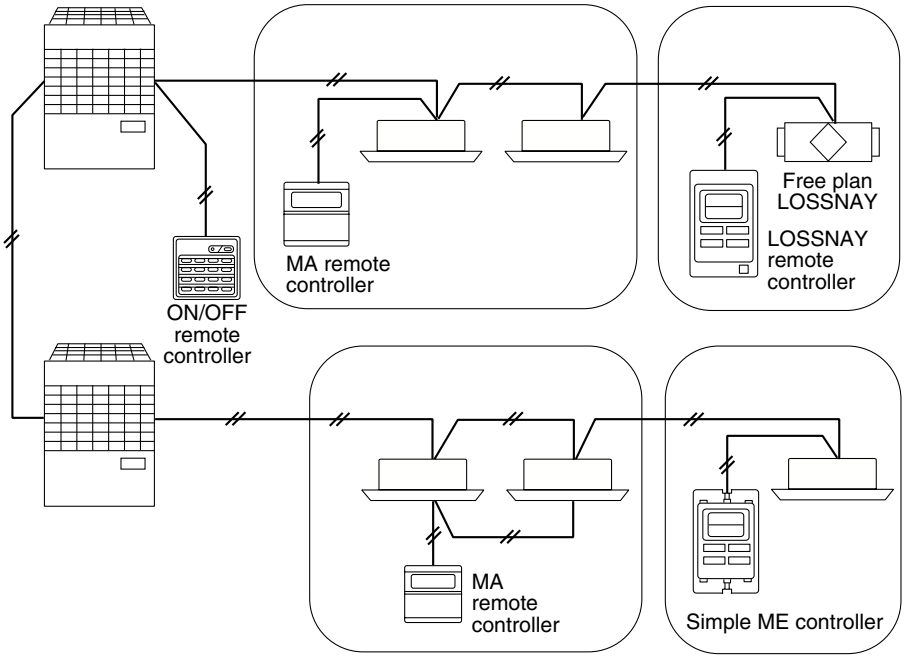
- 16 groups/50 units can be controlled.
  - · Up to 16 groups/50 units can be operated with one ON/OFF remote controller.
  - · A general-purpose interface is available for control, so general devices can also be turned ON and OFF.
- Just press a switch to start.
  - · All of the units can be started and stopped by pressing the main switch, and each unit in the group can be started and stopped with individual switches.
  - · A general-purpose interface is available for control, so general devices can also be turned ON and OFF.
- LED flashing during failure.
  - · If any error should occur in the air conditioner, its details can be confirmed easily with the flashing LED. The LED also indicates whether each group is running or stopped.
- Interlock operation with external system possible.
  - · It can be flexibly interlocked with a card reader, fire alarm system or building management system, etc., using the incorporated external input/output function.
- Flexible group setting.
  - · The groups can be easily configured, so the group pattern can be freely set according to the layout.
  - · The ON/OFF remote controller can be connected at the indoor/outdoor transmission line with out the power supply unit.

■ Functions

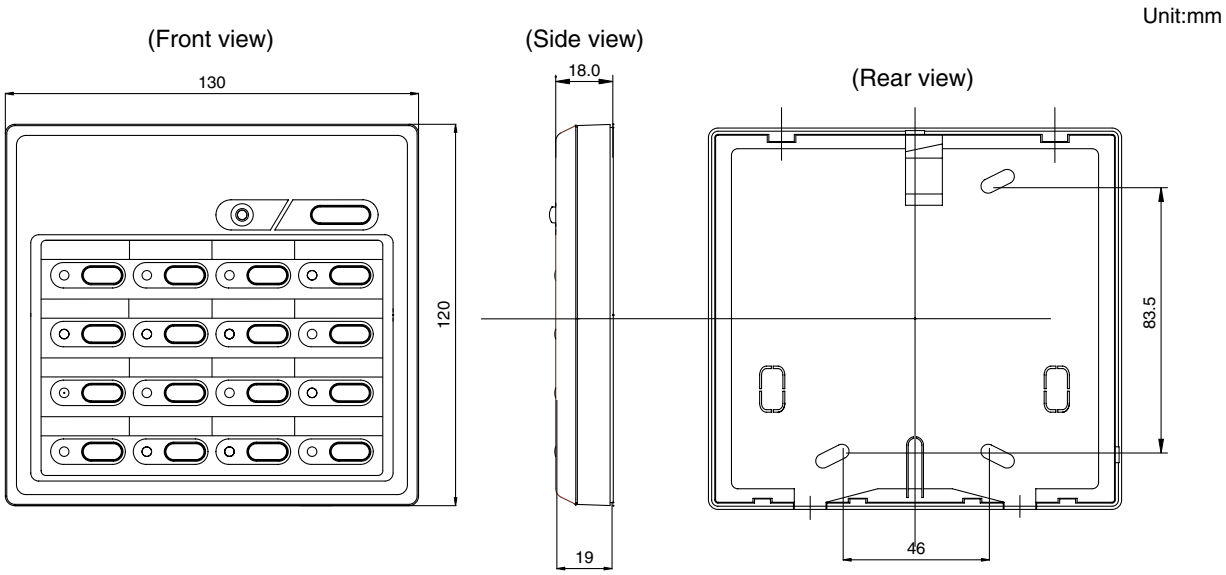
□: Each unit ○: Each group ●: Each block
△: Each floor ◎: Collective ×: Not available

Item	Description	Operations	Display
ON/OFF	Run and stop operation for the air conditioner units	◎	◎
Operation mode switching	Not available	×	×
Temperature setting	Not available	×	×
Fan speed setting	Not available	×	×
Air flow direction setting	Not available	×	×
Manual operation prohibit/permit (ON/OFF, operation mode, setting temperature, filter reset)	Compatible only with external input.	×	×
Specific mode operation prohibit (Cooling prohibit, heating prohibit, cooling/heating prohibit)	Not available	×	×
Room temperature display	Not available	—	×
Error display	LED flashes during failure. (The error code can be confirmed by removing the cover.)	—	△
Schedule operation	Not available	×	×
Ventilation operation (independent)	Group operation of only LOSSNAY units possible. ※ Only ON/OFF of group.	○	○
Ventilation operation (interlocked)	The LOSSNAY will run in interlock with the operation of indoor unit. ※ The fan rate and mode cannot be changed. The LED will turn ON only during operation after interlocking.	△	△
External output (Error output, operation output)	"ON/OFF" and "error/normal" are output with the level signal. ※ The optional output cable is required.	◎	◎
Connection position	Indoor/outdoor transmission line: Connectable Central system transmission line: Connectable (Power supply unit (PAC-SC34KUA) is needed.)	—	—

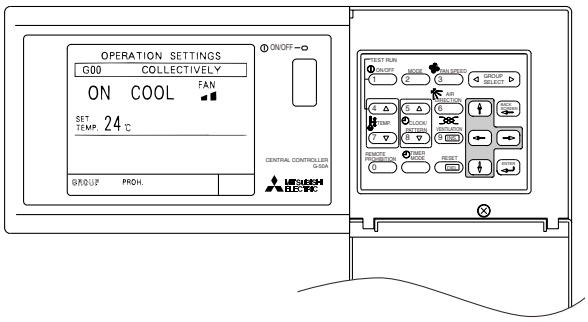
■ System example



■ External dimension



3.5 Central controller G-50A



A. The central controller of G-50A combines Web function (optional), which enable the air conditioner system management on a PC browser screen. *1. The management even carried out at a long distance place via public telephone line.

*1 Microsoft® Internet explorer Ver. 5 or later by Microsoft Corporation is needed. Microsoft® Internet explorer is a registered trade mark of Microsoft Corporation US in the USA and other countries.

B. Together with integrated software TG-2000A, and/or PLC, many optional functions like "Charging", "Peak-cut", "Energy saving", "General equipment management", "Scheduling" etc, can be carried out. Details, please refer to sections of TG-2000A and PLC software.

C. One G-50A can control maximum 50 Indoor units (including Lossnay). The integrated software TG-2000A can manage maximum 40 G-50As, therefore can manage maximum 2000 Indoor units (including Lossnay).

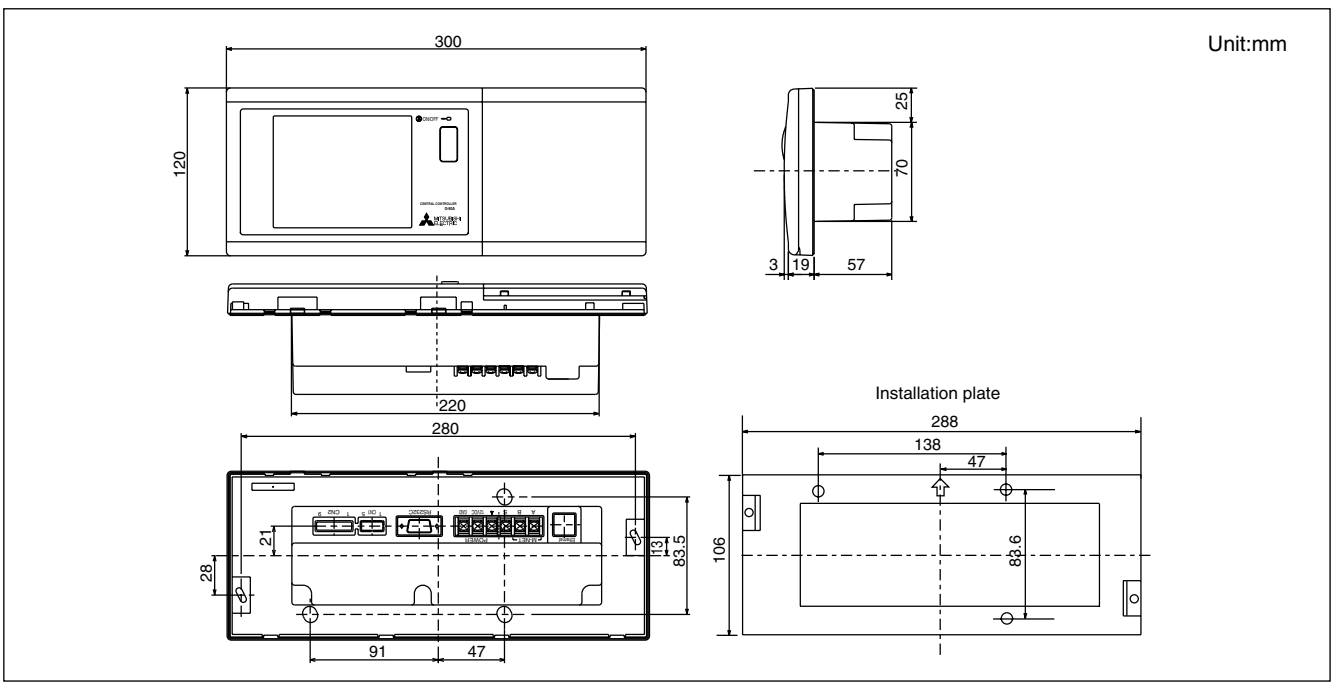
D. Taking advantage of G-50A's Web functions, alarming E-mail containing address and error code can be sent to appointed E-mail address upon any fault happen at the air conditioner system. This could release standby personnel and save operation cost.

■ Functions

□:Each unit ○:Each group ●:Each block
△:Each floor ◎:Collective ×:Not available

Item	Description	Operations	Display
ON/OFF	Run and stop operation for the air conditioner units	○◎	○◎
Operation mode switching	Switches between Cool / Dry / Auto / Fan / Heat. (Group of LOSSNAY unit : automatic ventilation/ vent - heat interchange/ normal ventilation) Operation modes vary depending on the air conditioner unit. Auto mode is the City Multi R2 and WR2 series only.	○◎	○
Temperature setting	Range of temperature setting Cool/Dry : 19˚C - 30˚C (14˚C - 30˚C) Heat : 17˚C - 28˚C (17˚C - 28˚C) Auto : 19˚C - 28˚C (17˚C - 28˚C) ( ) in case of using middle-temperature indoor unit. ※ Range of temperature settings vary depending on model.	○◎	○
Fan speed setting	Models with 4 air flow speed settings: Hi/Mid-2/Mid-1/Low Models with 3 air flow speed settings: Hi/Mid/Low Models with 2 air flow speed settings: Hi/Low	○◎	○
Air flow direction setting	Air flow direction angles 100% - 80% - 60% - 40%, Swing, ※1: Louver cannot be set. Air flow direction settings vary depending on the model.	※1 ○◎	○
Timer operation	For one day, you can set start/stop three times and you can set enable/disable three times. For a week's schedule, you can store three start/stop patterns and one enable/disable pattern. ※2: When the timer is set, "Timer enabled" is shown on the operation setting screen of the LCD.	○◎	※2 ○
Permit / Prohibit local operation	Individually prohibit operation of each local remote control function (Start/Stop, Change operation mode, Set temperature, Reset filter). ※3: When the local remote controller inactivation command is received from the master system controller, "Disabled" appears in inverted display on the operation setting screen.	○◎	※3 ○
Indoor unit intake temperature	Measures the intake temperature of the indoor unit only when the indoor unit is operating.	×	○
Error	When an error is currently occurring on an air conditioner unit, the afflicted unit and the error code are displayed. ※4: When an error occurs, the LED flashes. The operation monitor screen shows the abnormal unit by flashing it. The error monitor screen shows the abnormal unit address, error code and source of detection. The error log monitor screen shows the time and date, the abnormal unit address, error code and source of detection.	×	※4 □◎
Test run	This operates air conditioner units in test run mode.	○	○
Ventilation equipment	The interlocked system settings can be performed by the master system controller. When setting the interlocked system, you can use the ventilation switch to switch the free plan LOSSNAY settings between "Hi", "Low" and "Stop". When setting a group of only free plan LOSSNAY units, you can switch between "Normal ventilation", "Interchange ventilation" and "Automatic ventilation".	○	○
External input/output	By using accessory cables you can set and monitor the following. Input By level signal: "Batch start/stop", "Batch emergency stop" By pulse signal: "Batch start/stop", "Enable/disable local remote controller" Output "Start/stop", "Error/Normal" ※5: Requires the external I/O cable (PAC-YG10HA-E) sold separately.	◎※5	◎※5

■ External dimension



3.5.1 Power supply to G-50A

G-50A needs DC power supply of 24~30V and 12V; the former is for central control transmission use and the latter is for G-50A's operating and LAN function use. G-50A can have power-supply at following 1,2,3 methods.

3.5.1.1 Power supply unit PAC-SC50KUA is the recommended power supplier for G-50A. The basic scheme is as follows. For details, please refer to 3.12 Power supply unit PAC-SC50KUA.

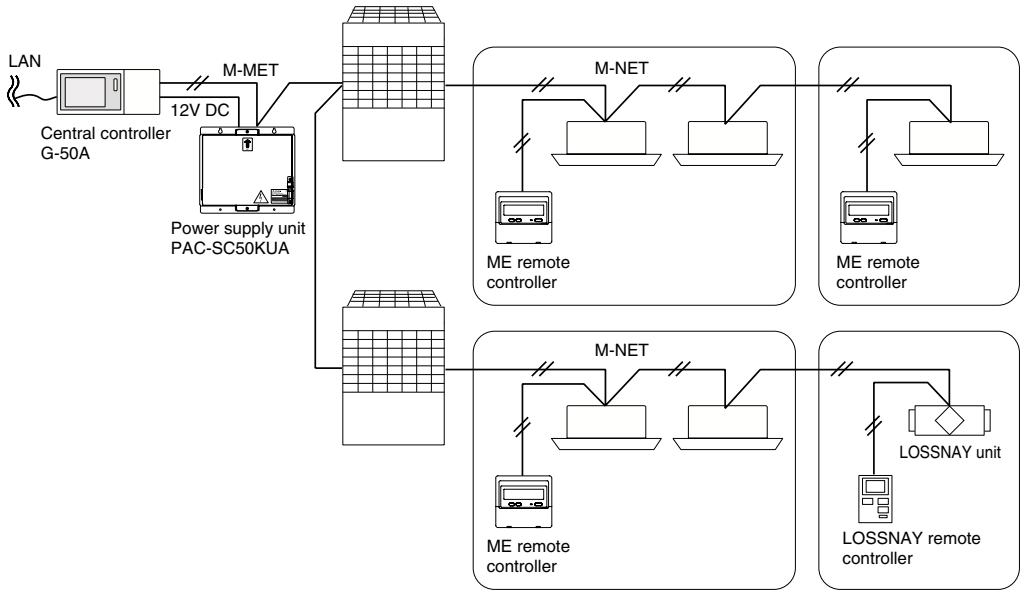


Fig. 3-5-1 G-50A and PAC-SC50KUA basic scheme.

3.5.1.2 Power supply of DC 30V from connector of TB7 or TB3 of Outdoor unit and field supplied DC12V, which speci fied at Table 3-5-1.

3.5.1.2.1 TB7 and field supplied DC 12V, 0.2A.
As shown at Fig. 3-5-2, G-50A receives power supply of DC 30V from the connector of TB7 at the R410A Outdoor unit together with a field supplied DC12V, 0.2A. In the case, one of the Outdoor units should change its power supply switch of CN41 to CN40.

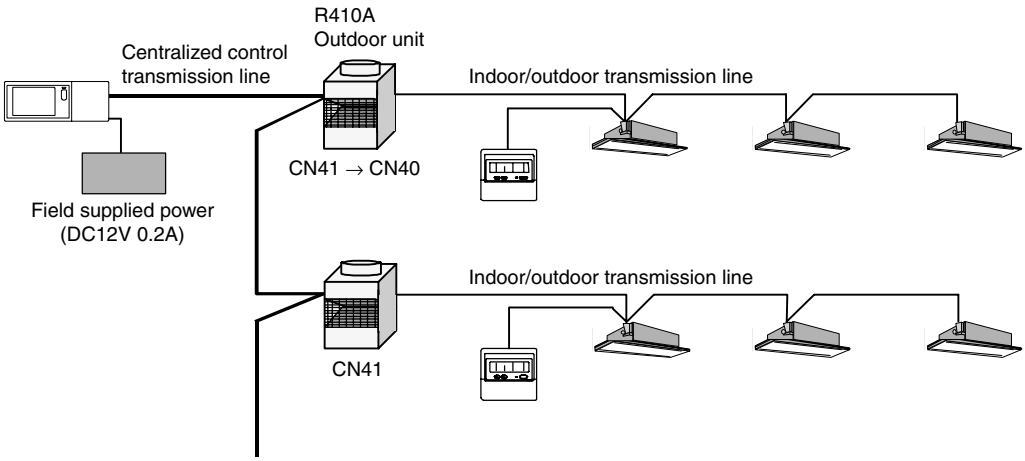


Fig. 3-5-2 G-50A, TB7 and field supplied DC12V scheme.

DC12V Power source should follow the specifications at Table 3-5-1, and the power cable to G-50A should not exceed 10m.

Table 3-5-1 DC12V power specifications

Source power	DC12V 0.2A (Maximum loading)
Ripple noise	Lower than 150mVp-p
Compatible specification	Authorized or CE marked products. Subject to regulations: IEC60950 (or EN60950) CISPR22/24 (or EN55022/24) IEC61000-3-2/3-3 (or EN61000-3-2/3/3)

3.5.1.2.2 TB3 and DC 12V, 0.2A
G-50A can also receive power supply from TB3 connector of the R410A or R407C, R22 Outdoor unit. Yet, Outdoor unit down will lead down to G-50A too. The kind of connection is possible but not recommended air conditioner system of multiple Outdoor units. The DC 12V 0.2A can be supplied at TB3 connector of PAC-SC50KUA, or a field supplier power complying specification at Table 3-5-1.

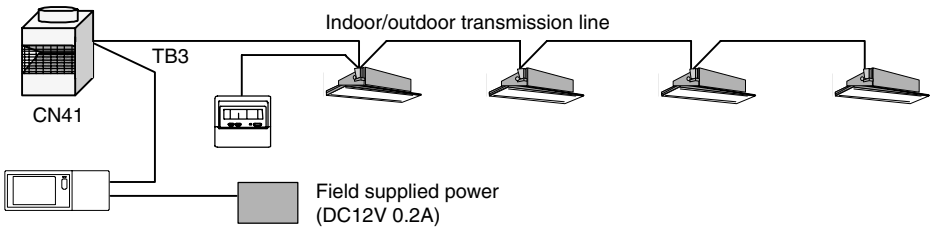


Fig.3-5-3 G-50A, TB3 and field supplied DC 12V scheme.

3.5.1.2.3 The effect on connectable quantity of Indoor unit when TB7 or TB3 is used to supply power to the G-50A.

As Indoor unit controller and system controllers share the power supply from the Outdoor unit, the total power consumption of control use needs following considerations.

Taking the power consumption of the control board of Indoor unit as 1, the equivalent power consumption of the system controller is as follows.

Table 3-5-2 The equivalent power consumption of controllers.

Indoor unit	Central controller (G-50A)	Other system controllers	
		ON/OFF remote controller (AN)	System remote controller (SR) Schedule timer (ST) Group remote controller (GR)
1	0.5	1	0.5

*In order to ensure the transmission quality in start-up of outdoor unit (or during communication traffic), the number of system controllers which connected to indoor/outdoor transmission line in the same system, should not exceed3.

The connectable quantity of Indoor units decreases while the system controller increases at above rate.

For example:
PUHY-P250YGM, can connect maximum 16 Indoor units. If a G-50A and a ON/OFF remote controller use TB7 or TB3 for power supply, the G-50A shares 0.5 and the ON/OFF remote controller shares 1, therefore, lowers the maximum connectable Indoor units to 16-(0.5+1)=14.5 →14.

⚠ CAUTION

- Any trouble caused by the failure of the field supplied DC12V power source is not responsible by Mitsubishi Electric Coporation.
- When applying Charge and/or Peak-cut function on G-50A, Power Supply Unit (PAC-SC50KUA) is recommended to use. G-50A is possible to receive power from the one of the Outdoor units, but there is a risk that the failure of power supply from the Outdoor unit will cause G-50A's function-down on the whole system.
- At the air conditioner system of multiple Outdoor units, the connector of CN41 is changed to CN40 at only one of the Outdoor units when TB7 is used to supply power. When the Outdoor unit failed, the connector at another unit can be changed from CN41 to CN40 to recover the power supply, but remember to change the CN40 back to CN41 at the failed Outdoor unit.

■ External input/output usage method

1. External signal input function

✻ External signal input requires the external I/O adapter (Model: PAC-YG10HA-E) sold separately.

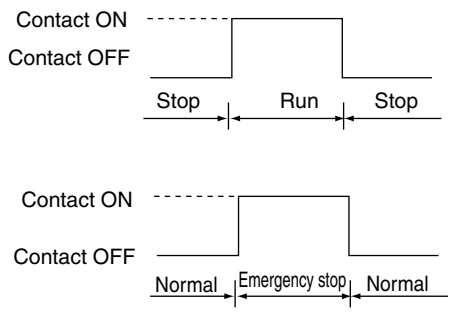
(1) External input

Emergency stop/normal, run/stop and prohibit/enable of local remote controller operation can be controlled for all air conditioners being controlled by using a voltage (DC12V or DC24V) contact signal from an external source.
(Select with the function select setting)

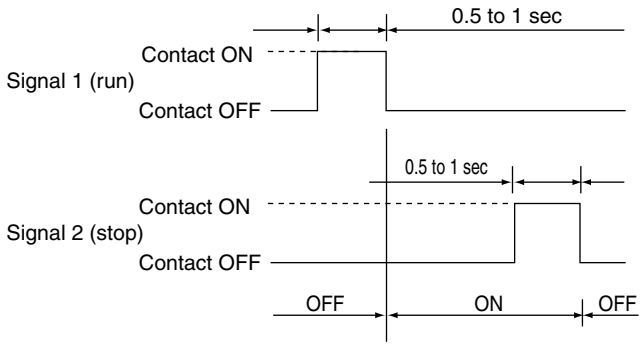
No	External signal input function	Function		Remarks
		No.6	No.7	
1	Do not use external input signal (factory setting)	OFF	OFF	――――――――――
2	Execute emergency stop/normal with level signal	OFF	ON	The local remote controller ON/OFF operations, and the controller ON/OFF operation and prohibit/enable change operations will be prohibited during emergency stop.
3	Perform ON/OFF with level signal	ON	OFF	The local remote controller ON/OFF operations, and the controller ON/OFF operations and prohibit/enable change operations will be prohibited.
4	Perform ON/OFF, prohibit/enable with pulse signals.	ON	ON	Set the pulse width while the contact is ON to 0.5 to 1 sec.

(2) Level signal and pulse signal (DC12V or DC24V)

(A) Level signal



(B) Pulse signal
(Example) for ON/OFF



✻ The prohibit/enable input is the same.

(3)External input specifications

CN2	Lead wire	Emergency stop/normal level signal	ON/OFF, level signal	ON/OFF, prohibit/enable pulse signal
No.5	Orange	Emergency stop/normal input	ON/OFF input	ON input
No.6	Yellow	Not used	Not used	OFF input
No.7	Blue	Not used	Not used	Local remote controller operation prohibit input
No.8	Gray	Not used	Not used	Local remote controller operation enable input
No.9	Red	External DC source “+”		

(A) For level signal

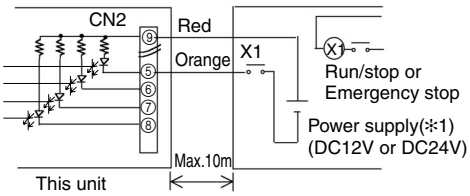
① When the emergency stop/normal signal is selected, the status will change from normal to emergency stop when the external input signal contact changes from OFF to ON, and will change from emergency stop to normal when the contact changes from ON to OFF.
② When the ON/OFF signal is selected, the status will change from OFF to ON when the external input signal contact changes from OFF to ON, and will change from ON to OFF when the contact changes from ON to OFF.

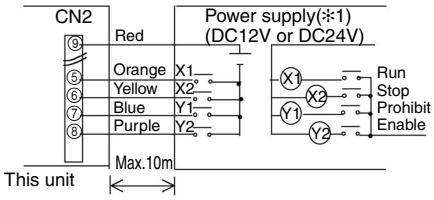
(B) For pulse signal

① Even if the ON signal is input during ON, the status will remain ON.
② If the local remote controller is prohibited, the ON/OFF operation mode and temperature setting operations by the local remote controller will be prohibited.
③ Set the pulse width (contact ON time) to 0.5 to 1 sec.

(4)Recommended circuit example

(A) For level signal





① The contact relay, DC power source, extension cable, etc., must be prepared separately at the site.
② The connection cable can be extended up to 10m. (Use a 0.3mm² or larger wire.)
③ Strip the extra cable near the connector, and securely insulate the exposed section with tape, etc.

2. External signal output function

✻ External signal output requires the external I/o adapter (Model: PAC-YG10HA-E) sold separately.

(1) External output

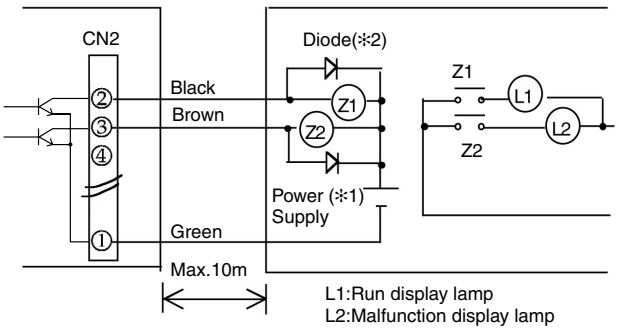
When one or more air conditioners are running, the “ON” signal will be output and if a malfunction occurs in one or more air conditioners, the “Malfunction” signal will be shown.

(2)External output specifications

CN 2	Lead wire	Details of each terminal
No.1	Green	Common (External ground)
No.2	Black	ON/OFF
No.3	Brown	Malfunction/normal
No.9	Red	Common (External power supply) (✻1)

① " ON" signal and " Malfunction" signal will both be output.

(3)Recommended circuit example

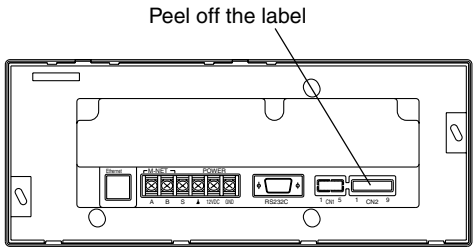


Use Z1 and Z2 relays having the following specifications.
Operation coil
Rated voltage :DC12V,DC24V
Power Consumption : 0.9W or less
(✻1)Prepare a power supply separately according to the relay being used. (DC12V or DC24V)
(✻2)Always insert a diode on both ends of the relay coil.

① Each element will turn on while ON operation or a malfunction occurs.
② The connection cable can be extended up to 10m.
③ The relays, lamps, diodes and extension cables, etc, must be prepared separately at the site.

⚠ **CAUTION**

When connecting the external input/output cables to connector CN2 on the controller, Peel off the label on the controller connector section.



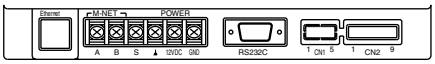
3. LAN connection function

When using the LAN connection function, connect the LAN cable to the Ethernet connector of this device.

⁜ Procure the LAN cable at the site, and use an enhanced category 5UTP cable.

⁜ For a description of the IP address setting method, refer to Installation Manual.

⁜ LAN is 10 BASE-T Specification.



NOTE

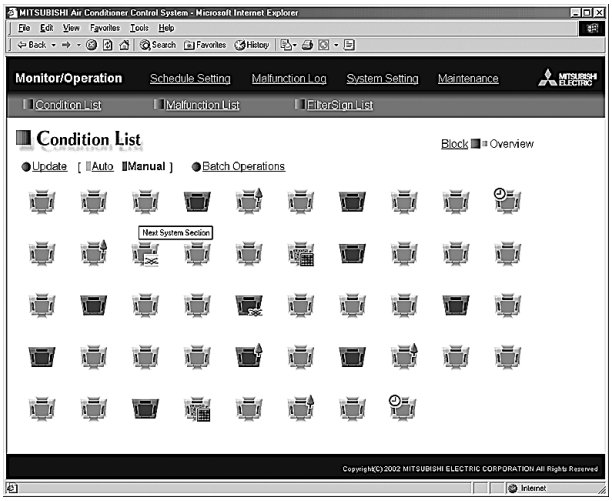
⁜ Perform the LAN wiring before installation, and wire up to the body by the same method as wiring the M-NET transmission line.

⁜ When a LAN is already connected, decide the IP address by consultation with the system administrator and connect to the LAN body after changing the IP address.

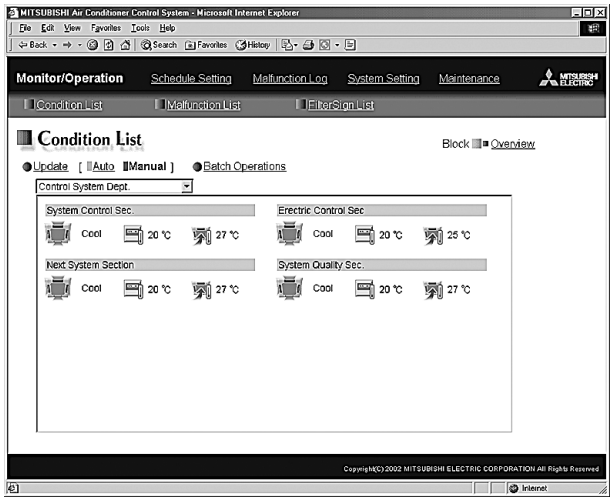
⁜ When connecting an LAN connector, space for the connector and wiring is required. Provide this space at this unit and the rear of the electric box. Refer to Installation Manual.

⁜ When the G-50A cover is opened, the LAN status lamp and LAN changeover switch are accessed. For detailed information, refer to sections 3-2 and 5-9 of the Instruction Book.

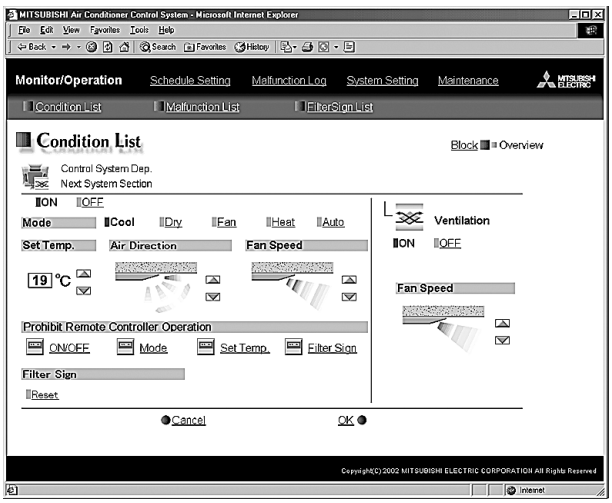
■ Browser screen



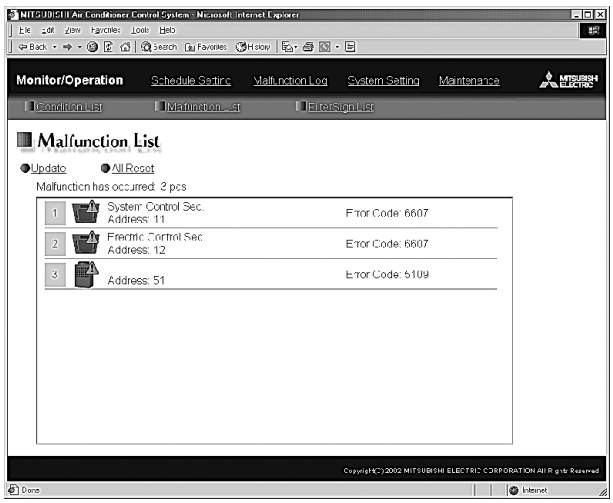
Condition List (Overview)



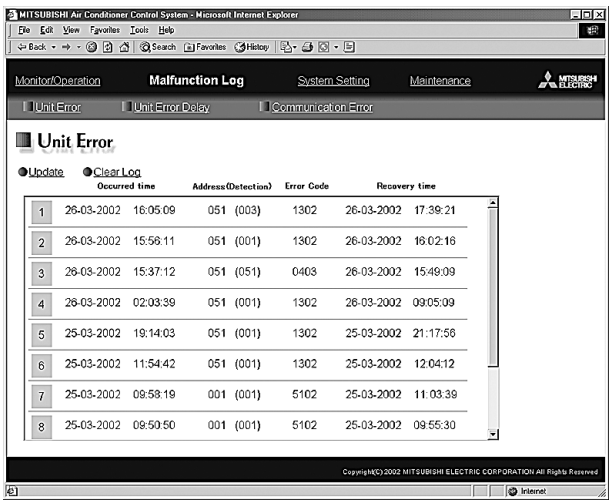
Condition List (Block)



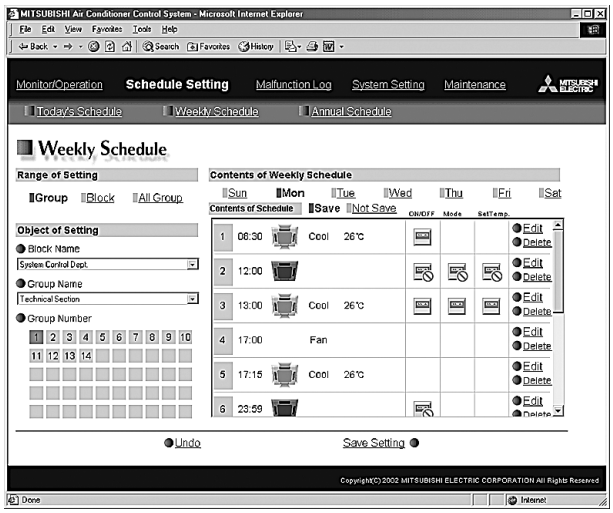
Operation



Malfunction List



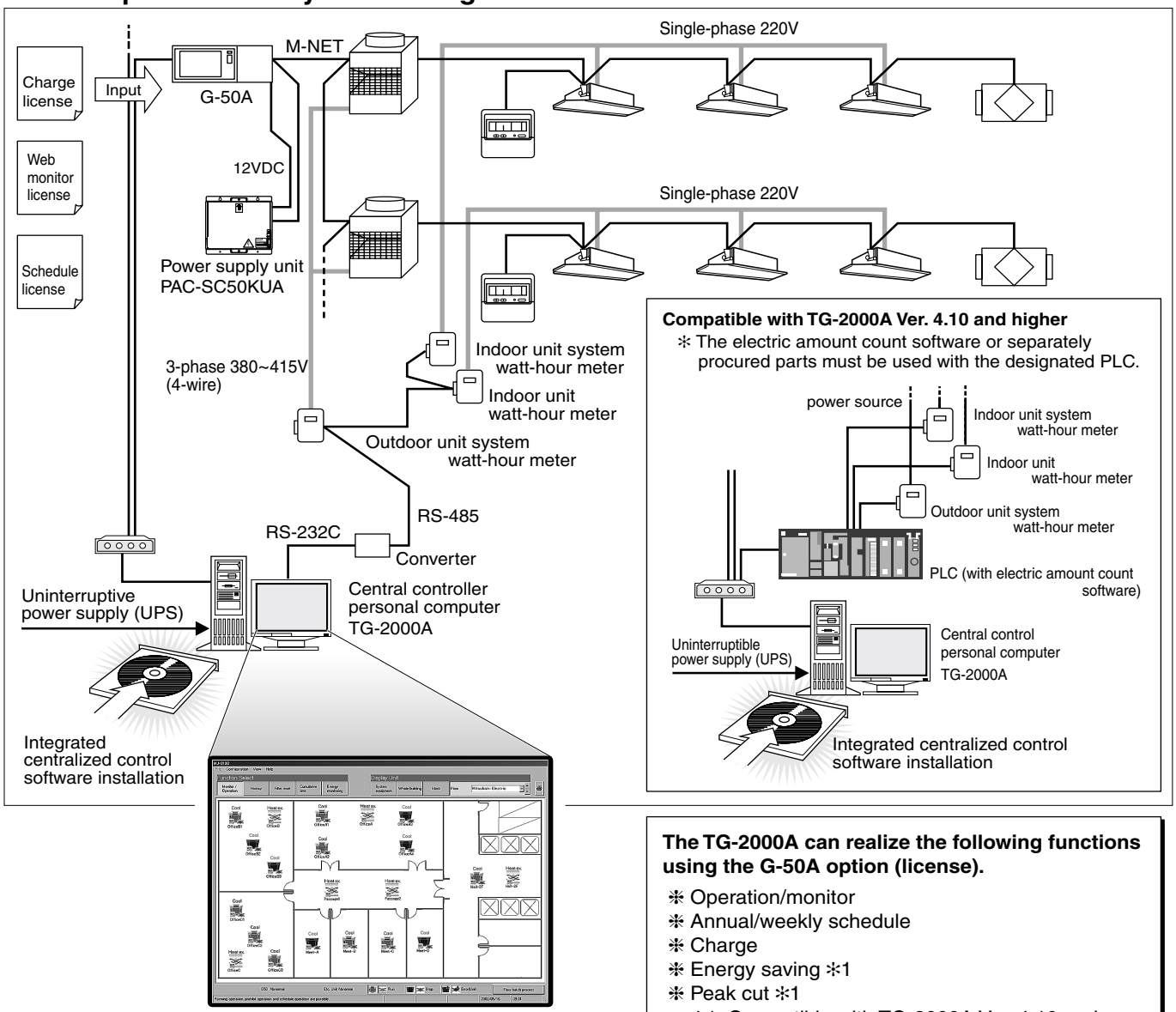
Malfunction Log



Weekly Schedule

3.6 Integrated centralized control software TG-2000A

1. Example of Basic System Configuration.



The TG-2000A can realize the following functions using the G-50A option (license).

- ✻ Operation/monitor
- ✻ Annual/weekly schedule
- ✻ Charge
- ✻ Energy saving ✻1
- ✻ Peak cut ✻1

✻1: Compatible with TG-2000A Ver. 4.10 and higher, G-50A Ver. 2.50 and higher.

■ Main features of TG-2000A

① Up to 2000 indoor units (40 G-50A units) can be operated and monitored simultaneously.
② The air-conditioner layout can be displayed on the screen, making control and operation easier.
③ The annual and weekly schedules can be set. Two schedules, such as the summer master and winter master, can be saved in the weekly schedule.
④ Air-conditioning charges can be calculated based on the multiple air-conditioner usage results. The power apportionment percentage data and apportioned power rate can be calculated for each indoor unit using the power apportionment function, and can be output as a CSV format file. ✻ Power apportionment charging is not possible with the old model, A control or K control.

Charging without WHM : The user manually inputs the power rate to calculate the air-conditioning charges. (Using a tool)
RS-485 WHM charging : The RS-485 WHM value is automatically tabulated to calculate the air-conditioning charges.
PLC + pulse WHM charging : The pulse output WHM value is automatically tabulated by the PLC to calculate the air-conditioning charges.

⑤ Energy saving operation is possible using the "ON/OFF", "set temperature change", "fan operation changeover" and "performance save operation (60% to 90%)" functions.
Energy saving operation matching the amount of power in use is possible by using the PLC's electric amount count software.
⑥ Defrost protection operation is possible with schedule settings. ✻1
⑦ General equipment can be operated and monitored. ✻2
⑧ General equipment can be schedule-controlled when using PAC-YG21CDA with PLC.
For details of PLC refer to Installation Manual of PAC-YG21CDA. ✻3

✻1: Compatible with TG-2000A Ver. 4.10 and higher, G-50A Ver. 2.50 and higher.
✻2: Compatible with TG-2000A Ver. 4.30 and higher, G-50A Ver. 2.50 and higher.
✻3: Compatible with TG-2000A Ver. 4.60 and higher, G-50A Ver. 2.70 and higher.

2. List of functions

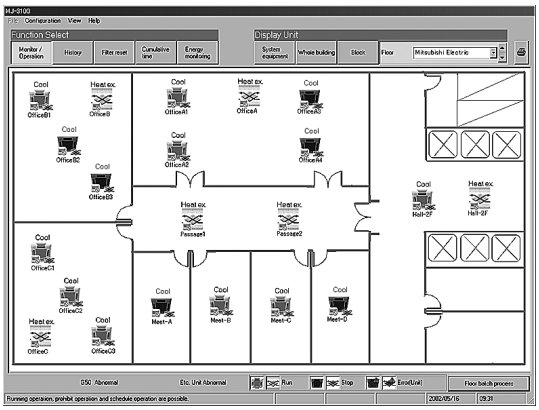
The data for each G-50A can be grouped and used to control the operation of up to 2000 units in floor or block units, etc., from the personal computer screen. By using a PLC or a watt-hour meter, the power rate can be apportioned, energy saving control can be executed, and other general equipment can be controlled.

List of integral software functions

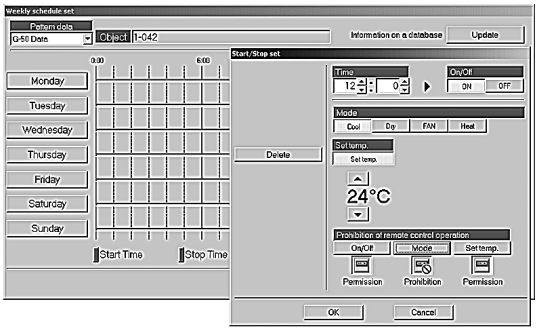
Item	Details	G-50 license					
		Web monitor	Charge	Schedule	Energy saving	Energy saving (peak cut)	PLC for general equipment
ON/OFF	The units can be turned ON and OFF for all floors or in block, floor or group units.	V					
	The general equipment can be turned ON and OFF. (⁕ A PLC and the general equipment control PLC software required.) ⁕2	V					
Operation modes	The operation mode can be switched between COOL, DRY, FAN, AUTO and HEAT for all floors or in block, floor or group units.	V					
Temperature setting	The room temperature can be set for all floors or in block, floor or group units. Set temperature range COOL / DRY : 19˚C to 30˚C HEAT : 17˚C to 28˚C AUTO : 19˚C to 28˚C ⁕ Depend on unit type	V					
Fan speed	The fan speed can be set to four stages for all floors or in block, floor or group units.	V					
Air direction	The air direction can be set in four vertical directions or to swing for all floors or in block, floor or group units. (The selectable air direction differs according to the model.)	V					
Interlocked unit ON/OFF (LOSSNAY)	If there is an interlocked unit (LOSSNAY), the unit can be turned ON (strong/weak) or OFF for all floors or in block, floor or group units. (Note that the ventilation mode cannot be selected for interlocked units.)	V					
Local operation prohibit	The items for which operation with the local remote controller are to be prohibited can be selected for all floors or in block, floor or group units. (The items that can be prohibited are ON/OFF, operation mode, set temperature and filter sign reset.)	V					
Annual / weekly schedule	The annual/weekly schedule function can be used by registering the license. Two settings, such as seasonal settings for summer and winter, can be saved.	V		V			
Power rate apportionment charging (power rate manual input)	By registering the G-50A unit license number, the power rate apportionment percentage data for each indoor unit can be output in CSV format. The power rate for each tenant can be easily calculated by having each user input the power rate manually.	V	V				
Power rate apportionment charging	An RS-485 watt-hour meter is connected to calculate the air-conditioning charges based on the amount each tenant's air-conditioner has operated. Two charging rates can be applied per day.	V	V				
	By using a PLC (with electric amount count software) and a watt-hour meter with pulse transmitter, the air-conditioning charges can be calculated based on the amount each tenant's air-conditioner has operated. Up to five charging rates can be applied per day. ⁕1						
History	Up to 3000 items for the error history and up to 10000 items for operation history can be saved. Each history file can be output as a daily report or monthly report in CSV format. The operation history consists only of the operations carried out with the TG-2000A, and is limited to some limited operation items.	V					
Operation time monitor	The cumulative operation time of each indoor unit can be viewed or output as a CSV format file. (This function is valid only when the charging function license is registered.)	V	V				
Filter sign display mask	Automatic display of the filter sign can be disabled. (System batch.) In this case, the filter sign state is confirmed with manual operations.	V					
Energy saving control ⁕1	Energy saving operation is possible using the "ON/OFF", "set temperature change", "fan operation changeover" and "performance save operation" functions.	V			V		
Energy saving (peak cut) ⁕1	Energy saving operation matching the amount of power in use is possible. (PLC (with electric amount count software) and watt-hour meter with pulse transmitter are required.)	V				V	
Frost protect ⁕1	Heating from 12˚C and higher can be set using the schedule.	V					
Set temperature limit ⁕1	The set temperature lower limit can be set for cooling and the upper limit for heating.	V					
Control other general equipment	It is possible to control other general equipment on ON/OFF operation / monitoring / Alarm / scheduling, if TG-2000A combines PLC installed with PLC software PAC-YG21CDA.	V					
	Setting inter-lock with CITYMULTI indoor units is possible. (Table setting tool for input/output defination is needed.)	V					V

⁕1: Compatible with TG-2000A Ver. 4.10 and higher, G-50A Ver. 2.50 and higher.
⁕2: Compatible with TG-2000A Ver. 4.30 and higher, G-50A Ver. 2.50 and higher.
⁕3: Compatible with TG-2000A Ver. 4.60 and higher, G-50A Ver. 2.70 and higher.

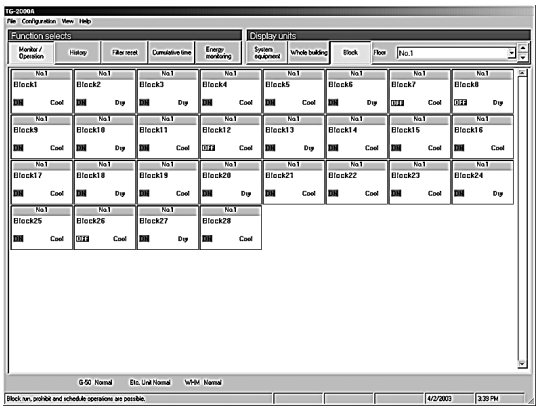
3. Screen images



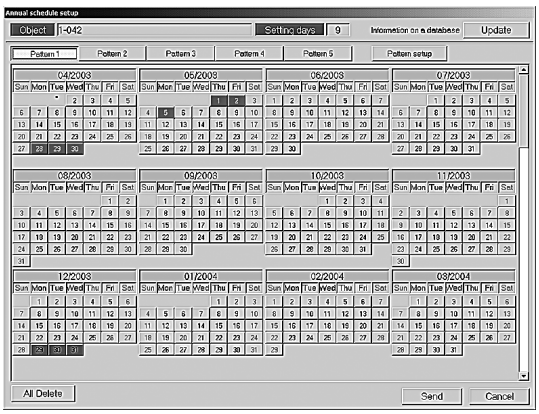
Floor screen



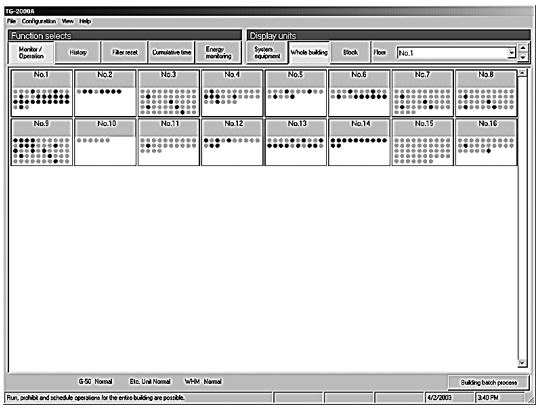
Weekly schedule screen



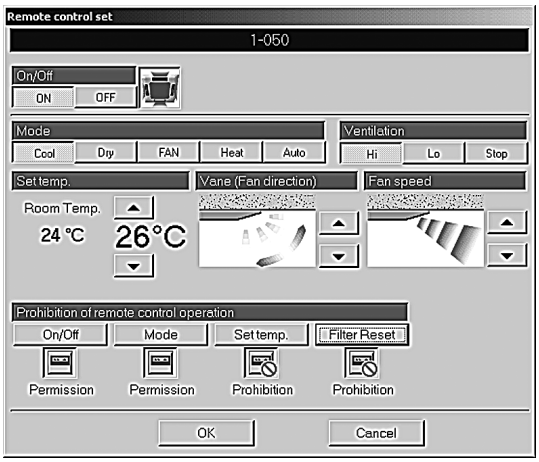
Block screen



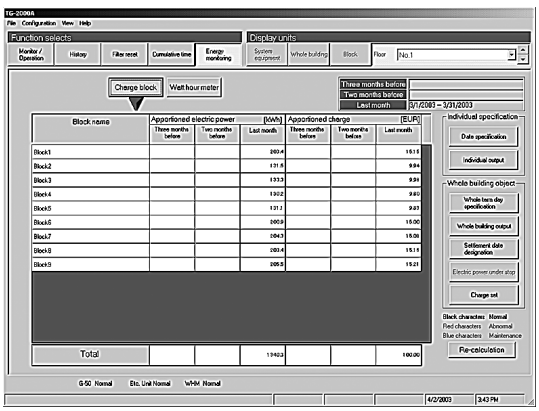
Annual schedule screen



All floor screen



Operation setting screen



Air-conditioning charge screen

4. Requirements (system recommendations)

We recommend the following software and hardware when using this application (TG-2000A).

Item	Requirement	Recommended
PC	PC/AT interchangeable machine	Operation check completed, using IBM, COMPAQ, and DELL
CPU	Within 1000 indoor units : Pentium 4 1.8GHz or faster 1001 indoor units or over : Pentium 4 1.8GHz or faster (Case of temp, trend use : 2.8GHz or faster.)	Pentium 4 2.8GHz or faster
Memory	128MB or more (In Windows XP : 256MB or more)	256MB or more
HDD	6GB or more (2GB or more of C drive free space necessary)	4GB or more of C drive free space necessary When using the trend function, the drive used for automatic output must have the following free space according to the number of groups. 200 groups = 2GB, 500 groups = 5GB, 1000 groups = 10GB, 2000 groups = 20GB
Storage device	FDD, CD-ROM drive	Devices other than those shown at the left may also be installed.
Resolution	1024 × 768 or higher, 65536 colors or more	
Serial port	1 port or more	Required when using RS-485 communication WHM
LAN	Internal LAN (10/100 Mbps)	⁎1
OS	Windows XP Professional Windows 2000 Professional Service Pack 2 and above	English version only ⁎ Personal computer must support each OS.
Other	Computer must be dedicated for this use (TG-2000A).	

⁎1 Purchase the option, or use the equipment recommended for the personal computer when purchasing the personal computer.

5. Compatible Units

The TG-2000A has two main functions: air conditioner controller and cost accounting. However, not all functions are available with all air conditioners.

Table: Compatible units and function list (○: supported, △: Certain restrictions apply, ×: Not supported)

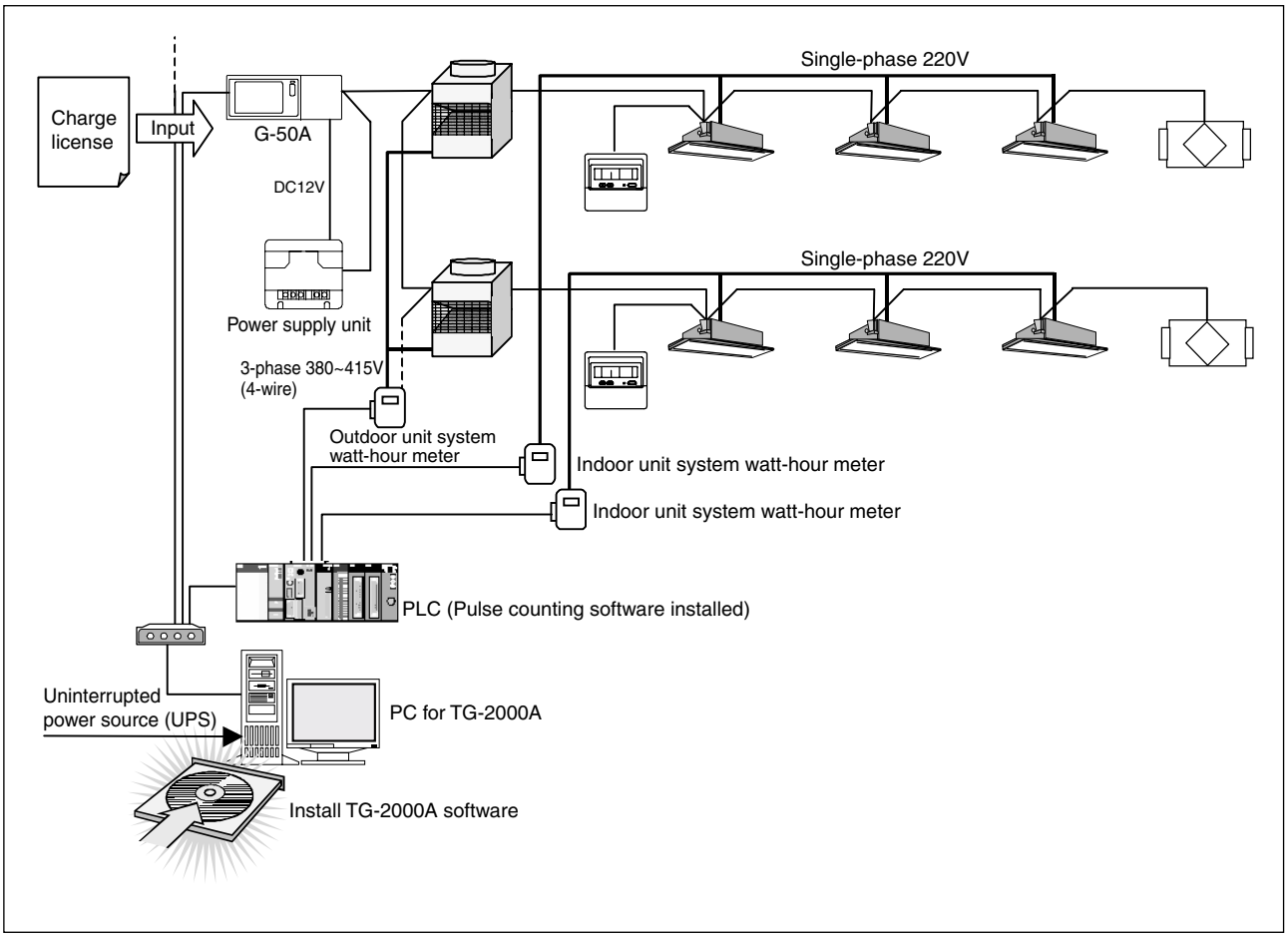
Function / Model	Control/ Maintenance	Charging (Billing) without WHM	Charging (Billing) with WHM
Y series	○	○ ⁎1	
Super Y series	○	○ ⁎1	
R2 series	○	○ ⁎1	
WR2 series	○	○ ⁎1	
WY series	○	○ ⁎1	
Multi S series	○	○ ⁎1	
Free plan Indoor unit	○	○ ⁎1	
Free plan LOSSNAY	○	×	△ (A separate watt hour meter is required. Billing is done with watt-hour units)
OA processing unit	○	×	△ ⁎2 (A separate watt hour meter is required. Billing is done with watt-hour units(Only the fan part))
"A" control type	○ (Adapter required)	×	△ (A separate watt hour meter is required. Billing is done with watt-hour units)
"K" control type	○ (Adapter required)	×	△ (A separate watt hour meter is required. Billing is done with watt-hour units)

⁎1 : Can be calculated for each charging block.
May not be available with some older models.
⁎2 : When used with IC attributes, it becomes the same as an indoor unit and billing is possible.

3.7 Electric amount count software PAC-YG11CDA

MITSUBISHI ELECTRIC offer charging function for the air conditioner system.
Detailed output of every indoor on electricity consumption of air-conditioning is available.
The electricity consumption of air-conditioner is counted based on the refrigerant consumption of every indoor unit, which makes the proportion of electricity consumption precise.

■ System example



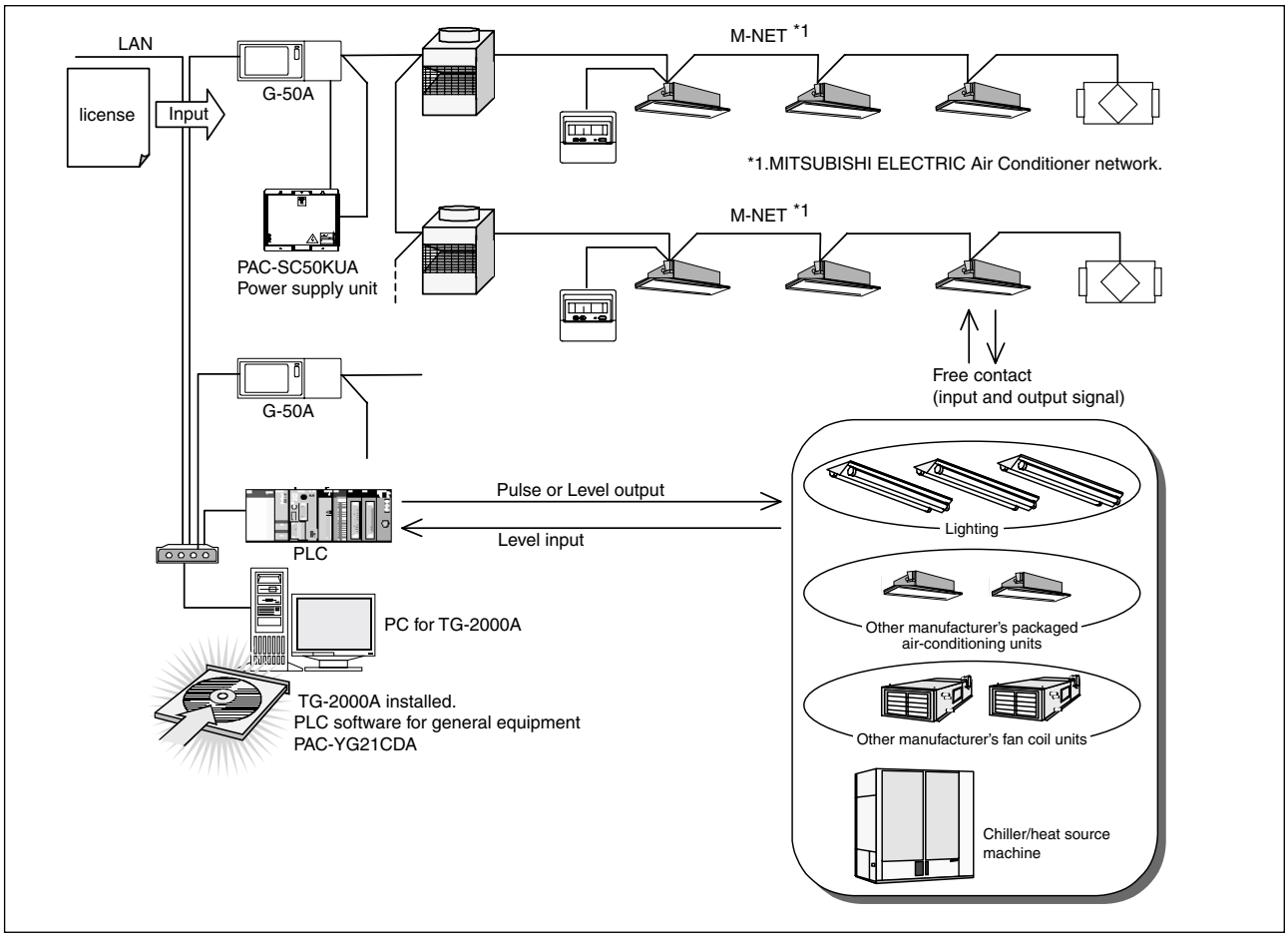
■ Necessary parts for the system

Name (Model name)	Maker	Remarks
PC for central control	PC/AT convertible unit	Confirmed operation of IBM, DELL, Hp Compaq. For details, refer to G-50A Technical Manual.
TG-2000A	Mitsubishi Electric	
Charge license	Mitsubishi Electric	Requires for each G-50A.
Web monitor license	Mitsubishi Electric	Requires for each G-50A.
PLC	Mitsubishi Electric	PLC for pulse counting connects maximum 5 sets. For details, refer to Installation Manual of PAC-YG11CDA.
PAC-YG11CDA	Mitsubishi Electric	For details, refer to G-50A Technical Manual.
Watt-hour meter with pulse oscillator	Mitsubishi Electric	For the specification of the watt-hour meter, refer to G-50A Technical Manual.
Uninterrupted power source (UPS)	Mitsubishi Electric (reference)	FREQUPS A-series. (Line interactive system)

3.8 PLC software for general equipment PAC-YG21CDA

MITSUBISHI ELECTRIC's Air Conditioner control system can combine control of general equipment like lighting, air conditioners from others, and so on.
Functions on general equipment : On/Off operation, alarm, monitoring, scheduling.

■ System example



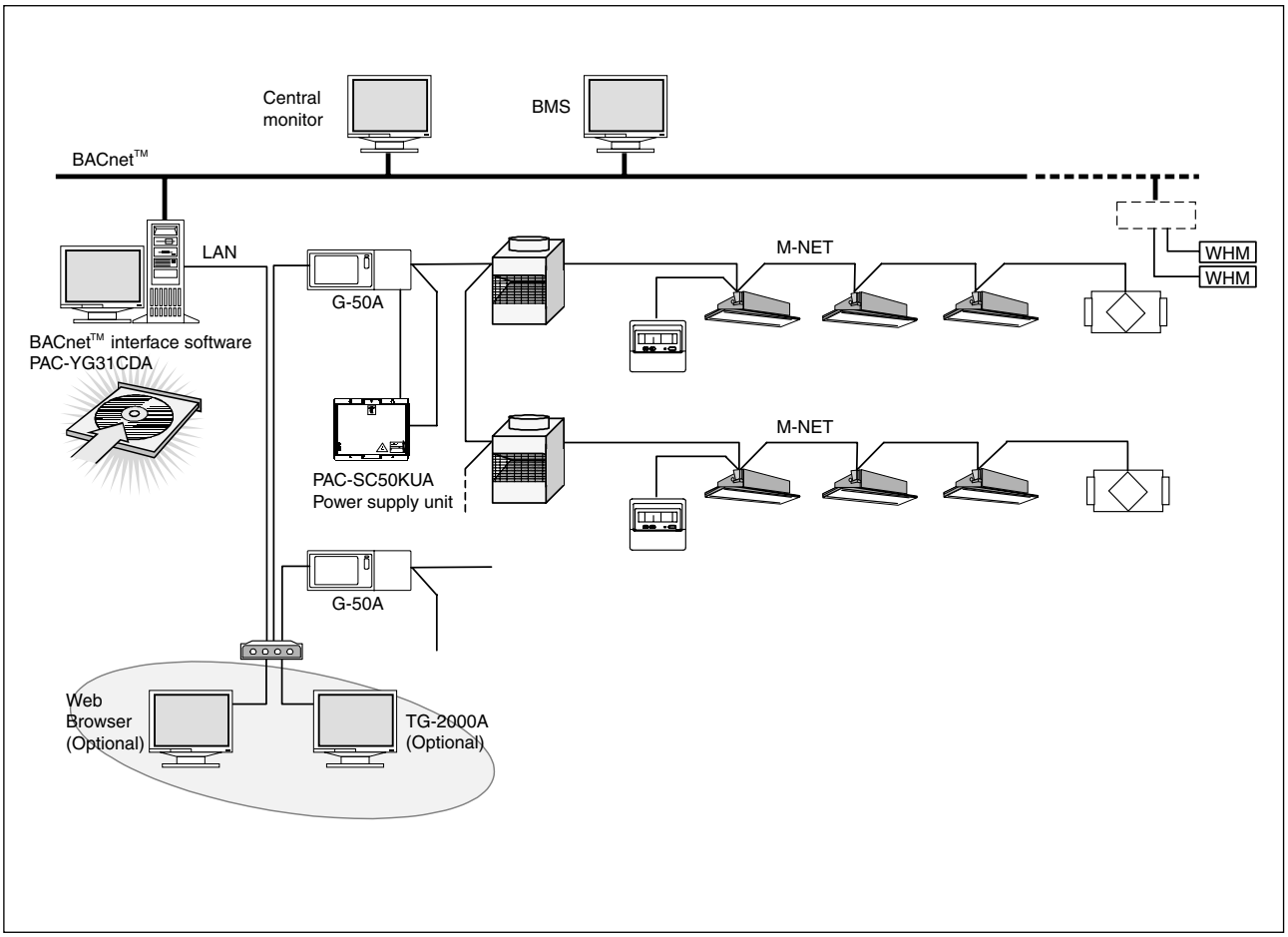
■ Necessary parts for the system

Materials (model names)	Maker	Remarks
PC for central control	PC/AT compatible	Confirmed operation of IBM, DELL, Hp Compaq. For details, refer to G-50A Technical Manual.
TG-2000A	Mitsubishi Electric	Use Ver.4.60 or later (Use G-50A's Ver. 2.70 or later)
Web monitor license	Mitsubishi Electric	Requires for each G-50A.
PLC for genral equipments license	Mitsubishi Electric	Table-setting of input/output is necessary.
PLC	Mitsubishi Electric	Make sure DI board and DO board are mounted.
PAC-YG21CDA	Mitsubishi Electric	For details, refer to G-50A Technical Manual.

3.9 BACnet™ interface PAC-YG31CDA

MITSUBISHI ELECTRIC's CITYMULTI(TM) can be easily connected to the building management system (BMS) through BACnet. BACnet is the appropriate transmission method and used in many of the backbone networks and also it is easy to combine with other equipment corresponding to BACnet.

■ System example

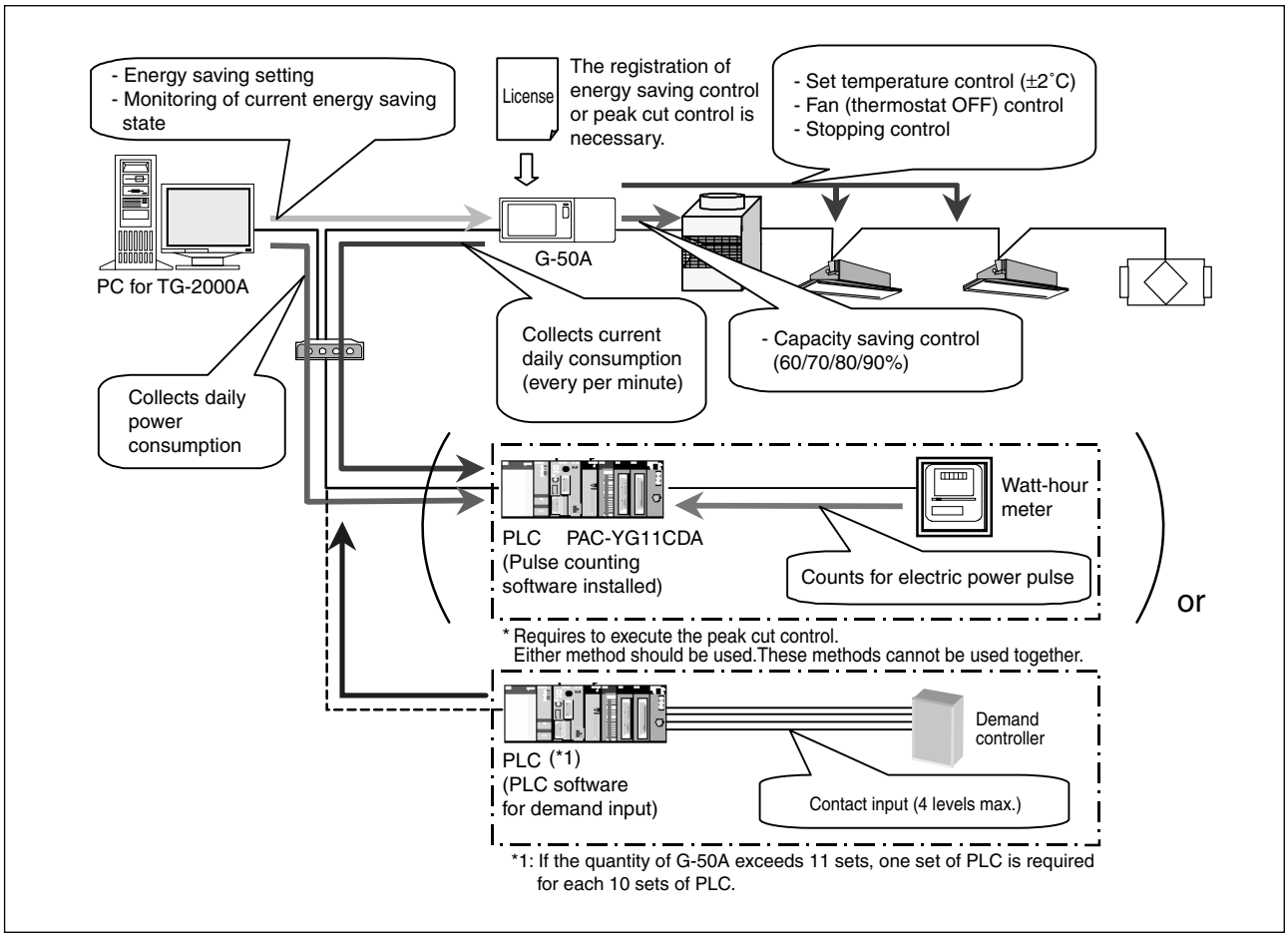


	Item
Operation	On/Off (setup)
	Operation mode (setup)
	Fan Speed (setup)
	Air direction (setup)
	Set Temp.
	Filter Signal Reset
	Prohibition of local operation (On/Off)
	Prohibition of local operation (Mode)
	Prohibition of local operation (Filter reset)
	Prohibition of local operation (Set Temp.)
	System Forced Off
Monitor	On/Off (state)
	Operation mode (state)
	Fan Speed (state)
	Air direction (state)
	Room Temp.
	Filter Signal
	Alarm Signal
	Error Code
	Communication State

3.10 PLC software for demand input PAC-YG41CDA

MITSUBISHI ELECTRIC's CITYMULTI(TM) has its intelligent way to carry out peak-cut control while maximizing the air conditioning effect.

■ System example



■ Necessary parts for the system

Name (Model name)	Maker	Remarks
PC for central control	PC/AT convertible unit	Confirmed operation of IBM, DELL, Hp Compaq. For details, refer to G-50A Technical Manual.
TG-2000A	Mitsubishi Electric	Use Ver.4.6 or later.
G-50A	Mitsubishi Electric	Use Ver.2.6 or later.
Energy saving control (peak cut) license	Mitsubishi Electric	Requires for each G-50A.
Web monitor license	Mitsubishi Electric	Requires for each G-50A.

Applying the energy saving setting from the integrated software TG-2000A allows conducting the energy saving control by the indoor/outdoor units or peak-cut control by using PLC.

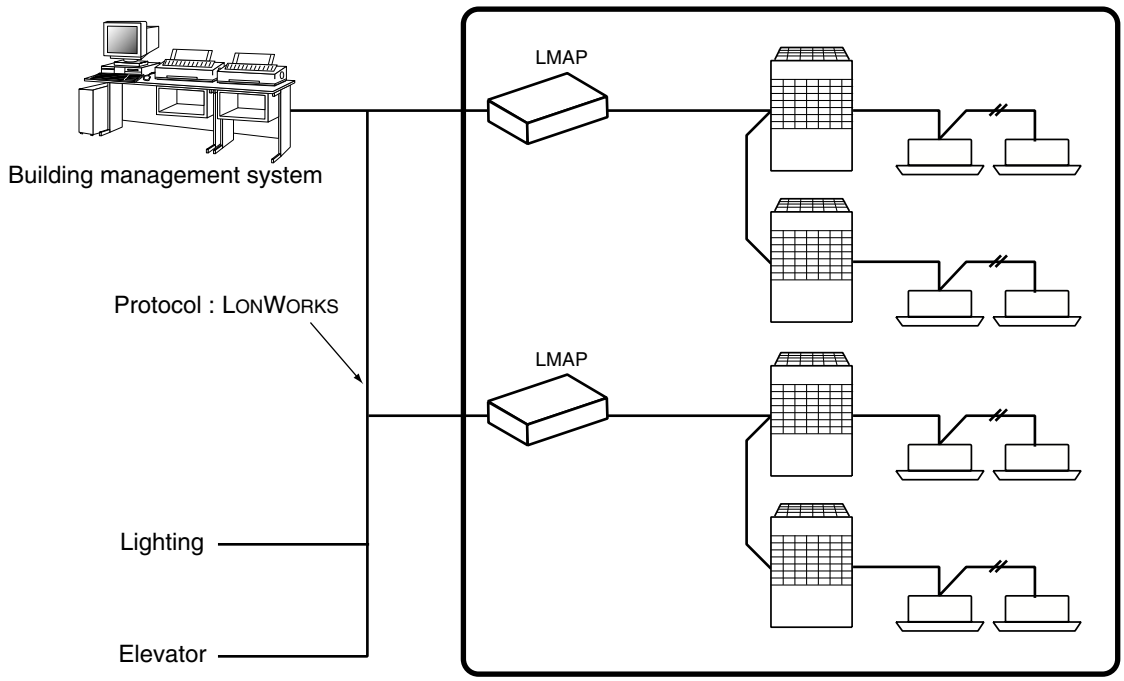
Item		Content
Energy saving control	Indoor unit control	The integrated software sets the following energy saving items and energy saving time to G-50A per operation block. G-50A conducts energy saving operation to the indoor units with the set detail. ① Temperature control (±2°C) ② Fan control (Thermostat ON) ③ Stopping control For the block with temperature difference between set and inlet temperature exceeding the set, the energy saving control set at level 0 is not applied.
	Outdoor unit control	The integrated software sets the following energy saving items and energy saving time to G-50A per outdoor unit and the set G-50A conducts the energy saving operation for the outdoor unit.
Peak cut control		Connecting the watt-hour meter (PLC) allows conducting energy saving operation meeting the power consumption. The control object and detail are same as that of the energy saving rotated control. One set of the watt-hour meter can be set for each G-50A.
Monitoring of energy saving control status/history[1]	Control status	During the energy saving control, the energy saving mark is displayed on the air conditioner group icon of Web, integrated software.
	Daily report	Daily power consumption and control level can be monitored by the integrated software. G-50A can hold the data for 3 days max. including that of today, yesterday and the day before yesterday.
	Monthly report	Monthly power consumption can be monitored by the integrated software (for 62 days max.). The integrated software monitors from PLC for display and storing.

3.11 Air conditioner interface LMAP02-E

- **Achieve an open network by using LONWORKS.**
  The demand is growing for open network systems that cater for demands such as the ability to freely select the facility equipment that will connect to the building management system regardless of maker or demands to cut back on the interface kit or gateway that links the building management system with the facility equipment. By using LONWORKS, Mitsubishi Electric has achieved an open network for operation information at the remote controller level for the multiple air conditioner units used in a building.
- **This has created the potential for system architectures that require simpler design and reduced labor cost.**
  By first making the functional profile (protocol specification) open, the on-site system integrators can enjoy design freedom. Furthermore, because LONWORKS provides a means for each facility equipment to connect to a single network, you can cut back on the wiring labor cost as your system will require less wiring.
- **One LMAP02-E unit can connect up to 50 indoor units.**

	Item
Operation	Request On/Off
	Request Mode
	Setpoint from network(Both cool and heat)
	Request Fanspeed
	Request Local Prohibit On/Off
	Request Local Prohibit mode
	Request Local Prohibit SetPoint
	Request All Off
Monitor	On/Off run state
	Mode state
	Setpoint state(both cool and heat)
	FanSpeed state
	Thermo On/Off state
	Temperature state of indoor
	Alarm state
	Local Prohibit On/Off state
	Local Prohibit mode state
	Local Prohibit SetPoint state

■ System example



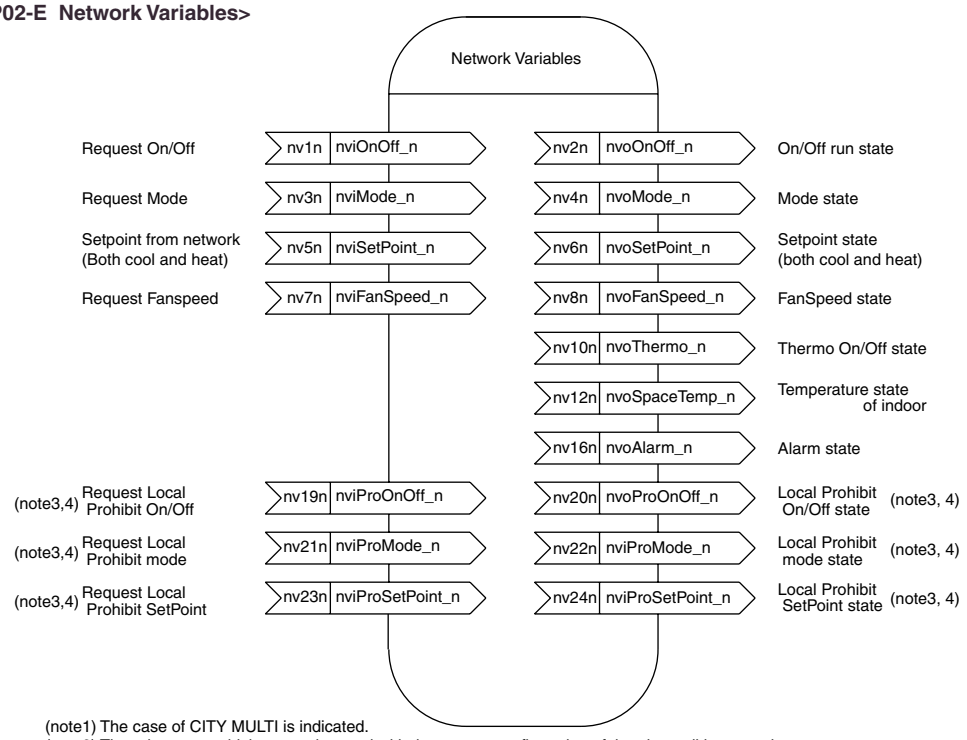
By assembling a network based on the commercially sold LONWORKS, it is possible to design your building's control system to use one network for operating the air conditioning and lighting etc. It also means that you will be able to easily add facility equipment with reduced change to the infrastructure, less wiring and less labor.

■ Environment specification

Item		Description
Connected Equipment		MITSUBISHI ELECTRIC Multiple split type air conditioners CITY MULTI Split-type air conditioners Mr.SLIM Heat recovery ventilators LOSSNAY (※For details of the connected models,please contact the dealer.)
Number of Units		LM-AP can control 50 indoor units (including LOSSNAY)
Neuron CHIP		TMPN3150 (10MHz)
Network Transceiver		FTT-10A (Free Topology 78kbps)
Performance	Average communication capacity	2.5 inputs/second
	Peak communication capacity	50 inputs/second (for one second)

※ The proper communication is not obtainable when communication intervals exceed its performance, assure sufficeint intervals.
※ ACK Service is recommended for the network service.
※ Detailed specifications for the LONWORKS network can be found in " FTT-10A Free Topology Transceiver User's Guide " by Echelon Corporation.

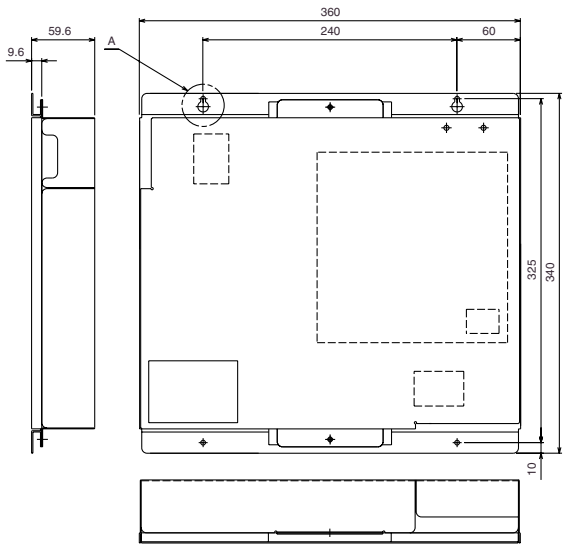
<LMAP02-E Network Variables>



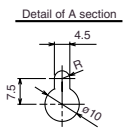
(note1) The case of CITY MULTI is indicated.
(note2) There is a case which cannot be used with the system configuration of the air conditioners units.
(note3) "n" of the network variable shows indoor unit address (M-NET).
(note4) It is possible to use when the "MA" remote controller.

■ External dimension

Unit:mm



Item			Description
Dimensions			340 (H) x 360 (W) x 59.6 (D) mm
Net Weight			3.3 kg
Power Source			~ 220 - 240V (50/60 Hz)
Current Consumption			50 mA (Maximum)
Operation Environment	Temperature	Operating Range	-15 to 43˚C
		Storage Range	-20 to 60˚C
	Humidity		30 to 95 RH (No condensation)
Installation Environment			In the control box



3.12 Power supply unit PAC-SC50KUA

PAC-SC50KUA supplies DC powers of 24V and 12V at TB2 and TB3 respectively; the former is for central control transmission use and the latter is for G-50A operation and LAN function use.

3.12.1 When using PAC-SC50KUA as the power supplier for system controller, the capacity for system controller is considered as follows.

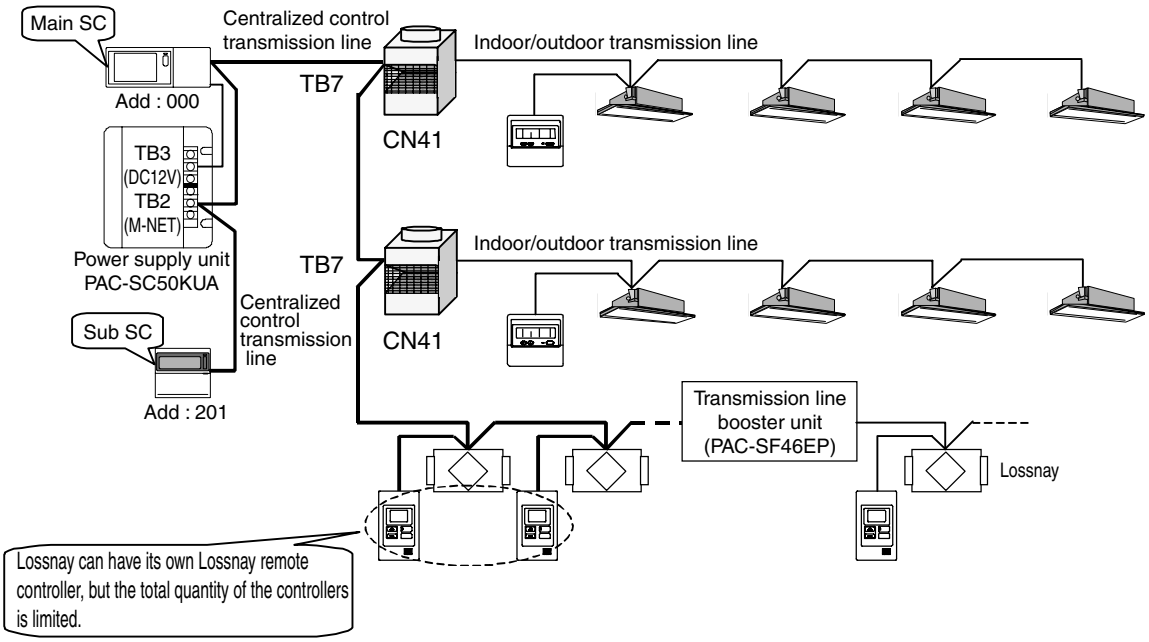


Fig. 3-12-1 Equivalent power consumption of controllers

In this case, pay attention to leave the power supply switch connector on CN41 of the Outdoor unit as the factory setting before shipment.

Taking the power consumption of the control board of Indoor unit as 1, the power consumption of various controllers is rated at Table 3-12-1.

Table 3-12-1 Equivalent power consumption of controllers

Central controller (G-50A)	Other system controllers		Remote controllers
	ON/OFF remote controller (AN)	System remote controller (SR) Schedule timer (ST) Group remote controller (GR)	ME remote controller LOSSNAY remote controller
0.5	1	0.5	0.25

PAC-SC50KUA is capable to supply equivalent power up to 6, therefore the maximum connectable number of system controllers is as follows.

Table 3-12-2 Max. connectable quantity of controller when using PAC-SC50KUA

Central controller (G-50A)	Other system controllers		Remote controllers
	ON/OFF remote controller (AN)	System remote controller (SR) Schedule timer (ST) Group remote controller (GR)	ME remote controller LOSSNAY remote controller
2 units (Note 1)	6 units	12 units	24 units

(Note 1) Due to its current limit of DC12V supplying, the PAC-SC50KUA can supply power for maximum 2 G-50As.

As the air conditioner control system may combine all kinds of system controllers, the total power consumption of system controllers need to count with Table 3-12-1.

For example, the controller system contain 1 G-50A, 2 ON/OF remote controllers(AN), 1 schedule timer(ST), 6 Lossnay remote controllers connected at centralized control communication line.

then the total power consumption is

1x0.5+2x1+1x0.5 +6x0.25 = 4.5 < 6.

One PAC-SC50KUA is therefore enough. In the case that total power consumption exceeds 6, transmission booster PAC-SF46EPA should be added. Details refer to section 3-13 Transmission booster.

3.12.2 When supply power to 1 G-50A, the PAC-SC50KUA can supply power to other system controllers as follows.

Table 13-2-3 Connectable number of system controller when 1 G-50A is used.

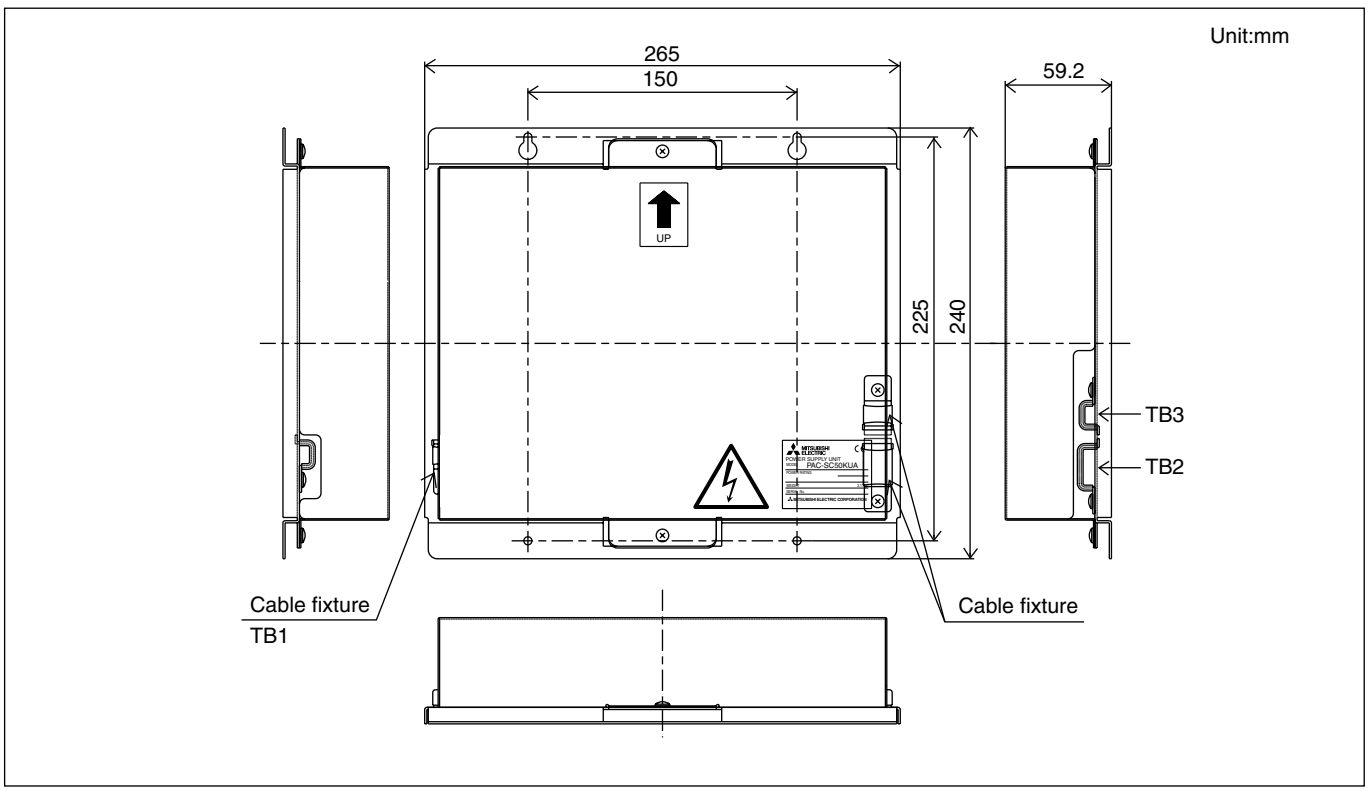
V : Connectable

		Total number of ON/OFF remote controller (AN)						
		0	1	2	3	4	5	6
Total number of System remote controller (SR) Schedule timer (ST) Group remote controller (GR)	0	-	V	V	V	V	V	
	1	V	V	V	V	V	V	
	2	V	V	V	V	V		
	3	V	V	V	V	V		
	4	V	V	V	V			
	5	V	V	V	V			
	6	V	V	V				
	7	V	V	V				
	8	V	V					
	9	V	V					
	10	V						
	11	V						
	12							

⚠ CAUTION

● When applying Charge and/or Peak-cut function on G-50A, Power Supply Unit (PAC-SC50KUA) is recommended to use. G-50A is possible to receive power from one of the Outdoor units, but there is a risk that the failure of power supply from the Outdoor unit will cause G-50A's function-down on the whole system.

■ External dimension



3.13 Transmission booster PAC-SF46EPA

The power for transmission of M-NET, including control board of Indoor unit and remote controllers is supplied by the Outdoor unit. Outdoor unit supplies DC 30V but limited current. The maximum connectable number of Indoor units is determined by the Outdoor unit. If the total required power consumption for transmission exceeds the Outdoor unit's limit, transmission booster PAC-SF46EPA is needed to extend the transmission lines for the next Indoor units, Lossnay, and/or remote controller. Taking the power consumption of the control board of Indoor unit as 1, the equivalent power consumption of various controllers is listed at Table 3-13-1.

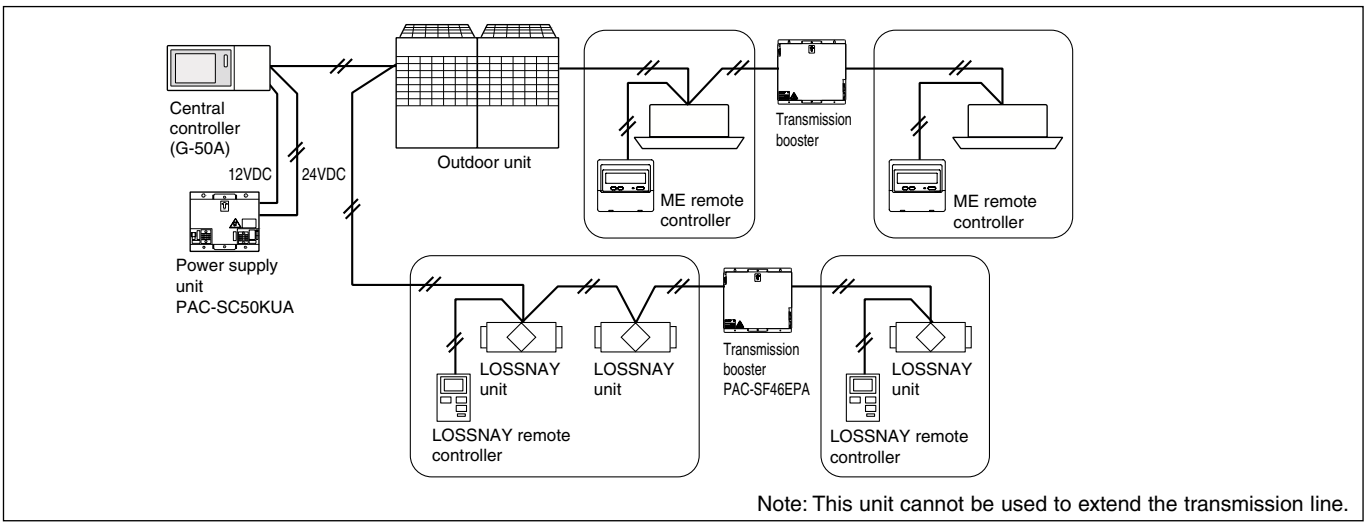
Table 3-13-1 The equivalent power consumption of controllers.

Central controller (G-50A)	Other system controllers		Remote controllers
	ON/OFF remote controller (AN)	System remote controller (SR) Schedule timer (ST) Group remote controller (GR)	ME remote controller LOSSNAY remote controller
0.5	1	0.5	0.25

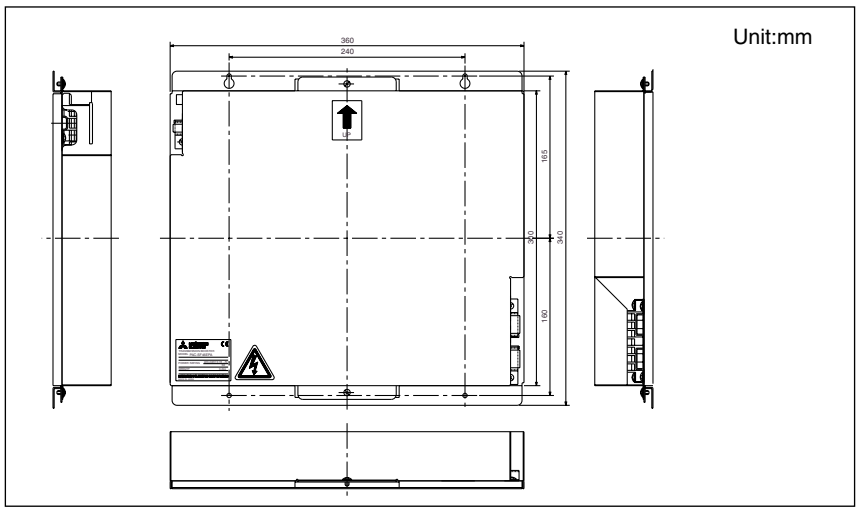
PAC-SF46EPA is capable to supply the equivalent power up to 12.5.
For example, a PUHY-P500YGM can connect maximum 24 of Indoor unit. If there are 20 Indoor units, 16 ME remote controllers, 1 ON/OFF remote controller connecting at TB3, the total power consumption will be 20x1+16x0.25+1x1=25>24, a PAC-SF46EPA is needed at the place before the total power consumption reach 24.

In the same way, PAC-SC50KUA is capable to supply 6, when controllers at central transmission line side consume more than 6, PAC-SF46EPA is needed. The total power consumption can be counted with Table 3-13-1. Lossnay itself consumes no power on control, but its remote controller consumes 0.25.
For example: 1 PAC-SC50KUA as the power supplier to the central transmission line, 1 G-50A, 1 ON/OFF remote controller, 20 Lossnay remote controller, then 1x0.5+1x1+20x0.25=6.5>6, a PAC-SF46EPA is needed at the place before the total power consumption reach 6.

■ System example



■ External dimension



■ Restriction of connecting, LOSSNAY remote controller

Use the transmission booster, when the value of power supply to the remote controllers from the power supply unit over the one of the under table.

Power supply unit PAC-SC50KUA ON/OFF remote controller	LOSSNAY Remote controller
0	24
1	20
2	16
3	12
4	8

4. System component

In a multi air conditioner system that is a free plan direct-expansion type, a connector for inputting and outputting signals to/from the outside is fitted as standard on the control board of the indoor and outdoor units. Use this when you want each unit to input/output signals individually. (Note: When there are many control units it is recommended that you use MELANS. This would enable you to save on labor.) In order to have an input output signal from each connector, you must have a dedicated adapter (sold separately) and a relay circuit (on-site arrangements).
Note : See next page for actual examples of use.

■ Types of control that uses connectors for the outdoor unit input output signal (connection for each type of option).

Category	Application	Function	Connector		
			Y, Super Y	R2,Big R2	WR2
Input	Method of disabling cool and heat operation (thermo off) by input from the outside to the outdoor unit.	Comp ON/OFF	CN3S	CN3D	—
	The low noise operation of the indoor unit can be commenced by the external input to the outdoor unit.(The night mode can be adapted only under the outdoor temperature condition of 30˚C or less for cooling and 3˚C or more for heating)	Night mode	CN3D	CN3D	—
	You can switch the operation mode between cooling and heating by input from the outside to the outdoor unit.	Autochangeover		—	
Output	Method of receiving a signal from the outdoor unit to the outside. ❊ Can be used as a device that displays the operation state. ❊ Can be used as an interlocked control with external equipment.	Compressor is run state	CN51	CN51	CN51
		Error state			

■ Types of control that uses connectors for the indoor unit input output signal (connection for each type of option)

Category	Application	Function	Connector
Input (Note 2,3)	Method of ON/OFF control by turning on and off switches or contacts from an outside to each indoor unit group. Can be used as a timer adapter (Note 1) Can be used as a "forget to switch off prevention" or "forced stop".	Distant/local switching (note 1)	CN32
		ON/OFF (level)	
	Method of ON/OFF control by inverting start/stop using external pulse (a-contact) for each indoor unit group.	ON/OFF (pulse)	CN51
Output	Method of sending signals to outside for each indoor unit group. It can be used as a device to display operation states. It can be used as an interlocked control with the external equipment.	Operation state	CN51
		Error state	
		Operation mode (heat) state	CN52
		Operation mode (cool, dry) state	
		Thermo ON (fan) state	

Note 1: Connect the signal input only to the principal unit in a group.
(However, the demand input is required to enter into indoor units individually.)
Note 2: When using start/stop input at group operation, Local remote controller is necessary.
(MA remote controller or M-NET remote controller)
Note 3: When setting to Remote, operation can not be performed from Local remote controller.
The remote controller displays [CENTRALLY CONTROLLED].
Note 4: When using start/stop input at group operation, [Automatic address start-up] can not be performed.
Note 5: When CN51 or CN52 is commonly used as an output signal, be sure to use the remote display kit.
Note 6: The remote display kit can be used for the input signal of CN51 and CN52.
Note 7: Connect to the principal unit only when using [Operating status] or [Operation mode (Heating/Cooling-Dry) of signal output. Connect to indoor units individually when using [Error status] or [Thermostat ON (or fan) status]

It is possible to have ON/OFF control by turning the indoor unit power on and off. You can select functions by setting the DipSW1-9 and 1-10 on the indoor unit.

■ Types of ON/OFF control (indoor unit settings)

It is possible to have ON/OFF control for each indoor unit (or group) by dip switches 9 and 10 (SW1-9, SW1-10) of the indoor unit.

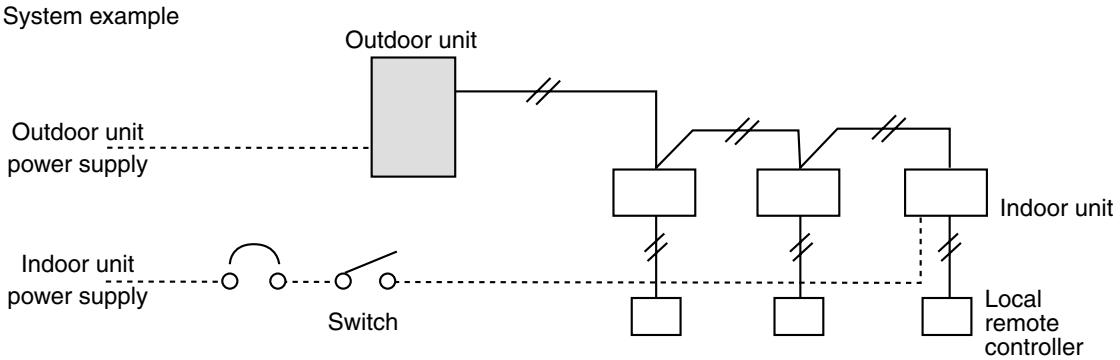
Function	Operation when indoor unit recovers	Setting SW2 (note 1)	
		9	10
All auto restart	All indoor units will always restart regardless of the state that was before the power was turned off (POWER OFF) (after 5 minutes).	–	ON
Auto recovery	Indoor units which are operated before the power was turned off (POWER OFF)will restart (after 5 minutes).	ON	OFF
All OFF	Operation stays stopped regardless of the state that was before the power was turned off.	OFF	OFF

Note 1. The dip switch setting for all units in the indoor unit group is required.
Note 2. Do not cut-off the power to the outdoor unit. If you do, it will disconnect the power to the crankcase heater of the outdoor unit and that could cause damage to the compressor.
Note 3. This cannot be applied to the power ON/OFF of the drain pump and humidifier equipment.

■ Description of when using distant/local switching (CN32)

SW1 Local switching	SW2 ON/OFF	State	Remote controller display/operation
OFF	OFF	Local / Permit	The operation permit
ON	OFF	Distant / Stop	It displays "CENTRALLY CONTROLLED", while the state is distant. It prohibits ON/OFF operation of remote controller.
ON	ON	Distant / Operate	

■ System example



When the power to the outdoor unit is cut-off for a long time, the crankcase heater for the compressor also stops. If the compressor is started soon after the power is restored, there is a chance that a fault will occur in the compressor. When using the above function, make sure the power to the outdoor units will not be cut-off.

■ Limitations to combining system controls

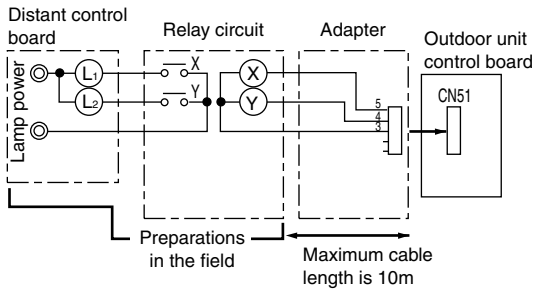
	Description		Control combining distant/local	Pulse ON/OFF	Power ON/OFF	Automatic recover
1	Control combining distant/local	CN32	–	× ⁎1	× ⁎1	× ⁎1
2	Pulse ON/OFF	CN51		–	○	○
3	HA ON/OFF (JEMA)	CN51			○	○
4	Power ON/OFF	-			–	×
5	Automatic recover	-				–

⁎1: Pulse ON/OFF, Power ON/OFF and automatic recover can only be used when the distant/local setting (CN32) is set to local. Therefore, always avoid this function when combining control.

■ Outdoor unit input/output connector

(1)All units

• State (CN51)



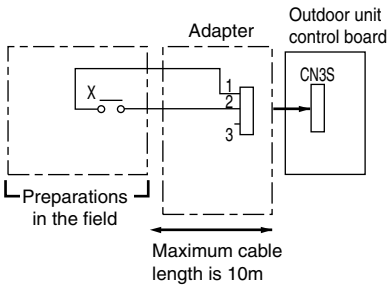
L1 : Error display lamp
L2 : Compressor operation lamp
X, Y : Relay (Coil standard of 0.9W or less for DC12V)

⚠ Caution:

1.Wiring should be covered by insulation tube with supplementary insulation.
2.Use relays or switches with IEC or equivalent standard.
3.The electric strength between accessible parts and control circuit should have 2750V or more.

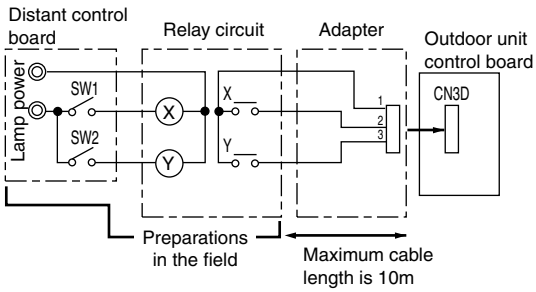
(2)PUMY-P

• Demand (CN3S)



X : Relay
Demand : The compressor is stopped when X is closed.

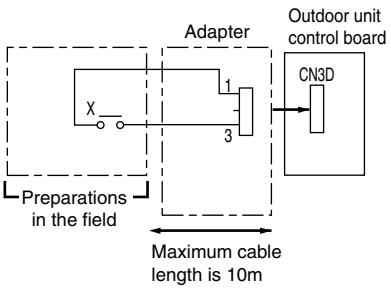
• Autochangeover (CN3D)



SW1 : Cooling / Heating
SW2 : Validity / Invalidity of SW1
X, Y : Relay (Point of contact rating : DC1mA)

(3)PUMY

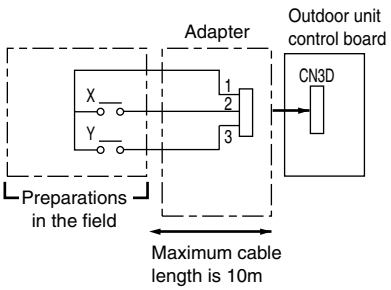
• Demand (CN3D)



Demand : The compressor is stopped when X is closed.

(4)PURY, PU(H)Y-(P)200·250·315

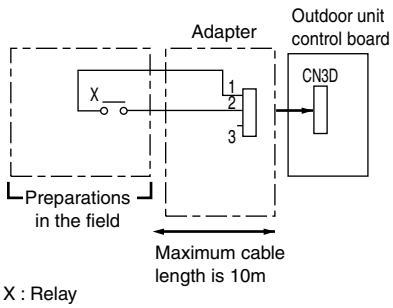
• Step demand (CN3D + DipSW4-7 ON)



		X	
		OFF	ON
Y	OFF	100%	75%
	ON	0%	50%

※They are rough values.

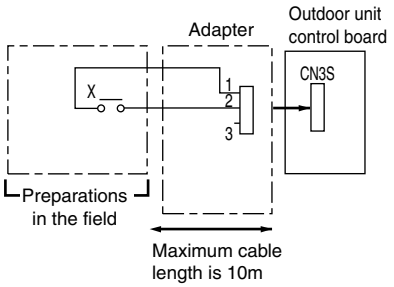
• Night mode (CN3D + DipSW4-7 OFF)



X : Relay
Night mode : The noise level is reduced by controlling the maximum fan frequency to be lower under the flowing condition.
Cooling mode : ambient temp. (TH6) < 30˚C
Heating mode : ambient temp. (TH6) > 3˚C

-Note-
The noise level can not be reduced. When the fan frequency is not maximum.

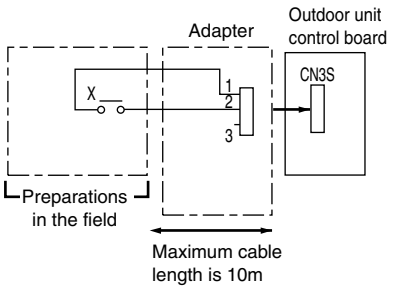
• Snow sensor (CN3S)



X : Relay
Snow sensor : The outdoor fun runs when X is closed in stop mode or thermostat mode.

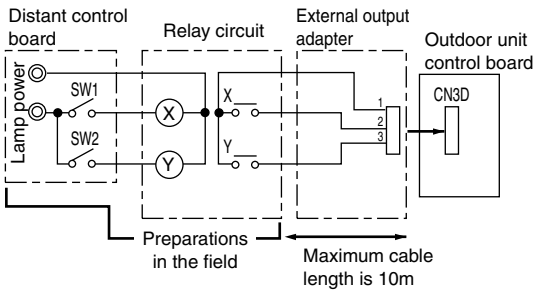
(5)Y, Super Y, R2

• Demand (CN3S)



X : Relay
Demand : The compressor is stopped when X is closed.

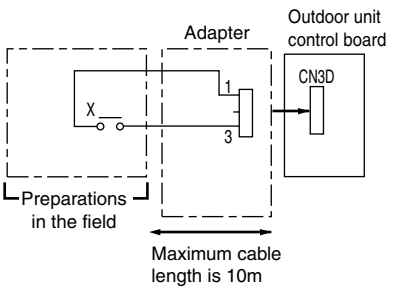
• Autochangeover (CN3D) ❊ Big Y and Super Y only



SW1 : Cooling / Heating
SW2 : Validity / Invalidity of SW1
X, Y : Relay (Point of contact rating : DC1mA)

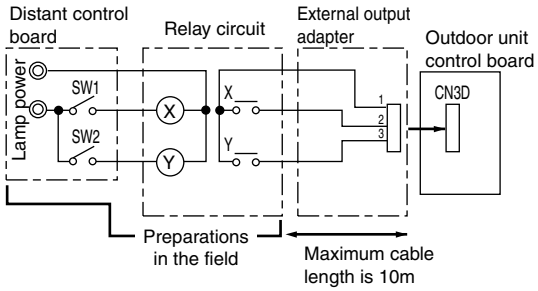
(6)WR2, WY

• Demand (CN3D)



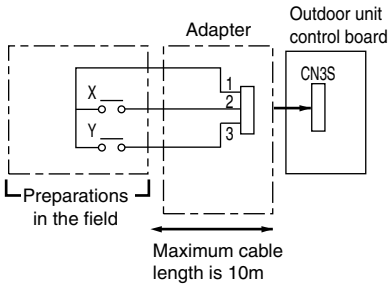
Demand : The compressor is stopped when X is closed.

• Autochangeover (CN3N) ❊ Y series only



SW1 : Cooling / Heating
SW2 : Validity / Invalidity of SW1
X, Y : Relay (Point of contact rating : DC1mA)

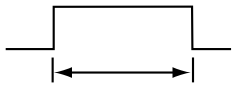
• Snow and Night mode (CN3N)



X : Night mode
Y : Snow mode

■ Indoor unit input/output connector

● ON/OFF (Pulse) input specification

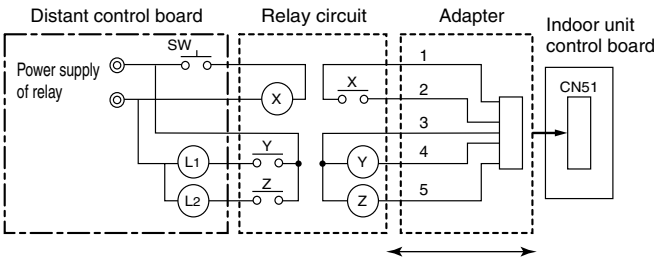
Item	Description
Input signal	Pulse sign (a connect)
Standard of pulse	 200msec or more

⚠ Caution:

1.Wiring should be covered by insulation tube with supplementary insulation.
2.Use relays or switches with IEC or equivalent standard.
3.The electric strength between accessible parts and control circuit should have 2750V or more.

● Input

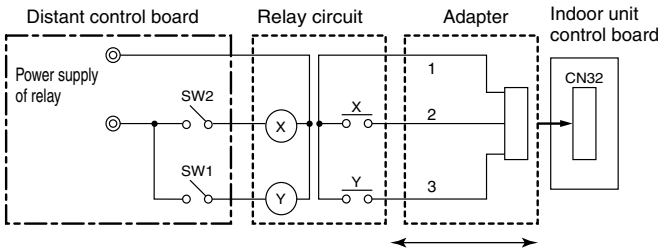
CN51



SW : Distant ON/OFF switch
L1 : Status lamp
L2 : Error lamp
X : Relay (a point of contact, fixed DC1mA)
Y, Z : Relay (Coil with fixed DC12V, a power consumption of 0.9W or less)

※ Every time the SW is pushed (the pulse is inputted), it make to react against ON/OFF.

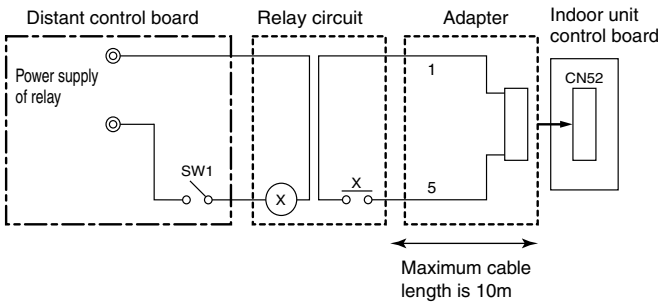
CN32



SW1 : Distant/Local switching
SW2 : ON/OFF switch
X, Y : Relay (a point of contact, fixed DC1mA)

※ SW2 is available when SW1 is ON.

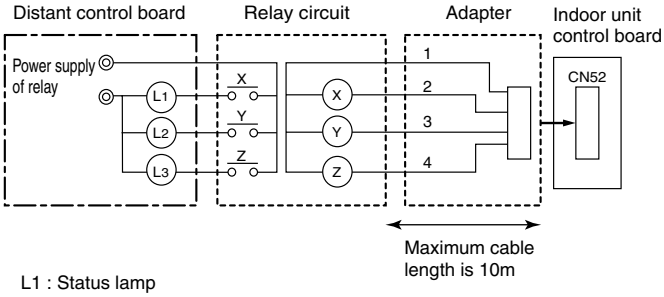
CN52



SW1 : Demand switch
X : Relay (coil with fixed DC12V, a power consumption of 0.9W or less)

● Output

CN52



L1 : Status lamp
Fan motor output (SW1-5 OFF)
Thermostat ON (SW1-5 ON)
L2 : Cooling/Dry status lamp
L3 : Heating status lamp
X, Y, Z : Relay (Coil with fixed DC12V, a power consumption of 0.9W or less)

CITY MULTI SYSTEM DESIGN

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1. Electrical Work & M-NET control

1.1 Attention

① Follow ordinance of your governmental organization for technical standard related to electrical equipment, wiring regulations, and guidance of each electric power company.

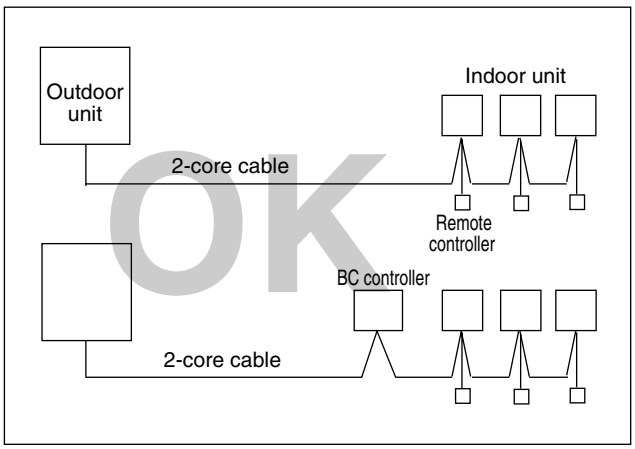
② Wiring for control (hereinafter referred to as transmission line) shall be (50mm or more) apart from power source wiring so that it is not influenced by electric noise from power source wiring. (Do not insert transmission line and power source wire in the same conduit.)

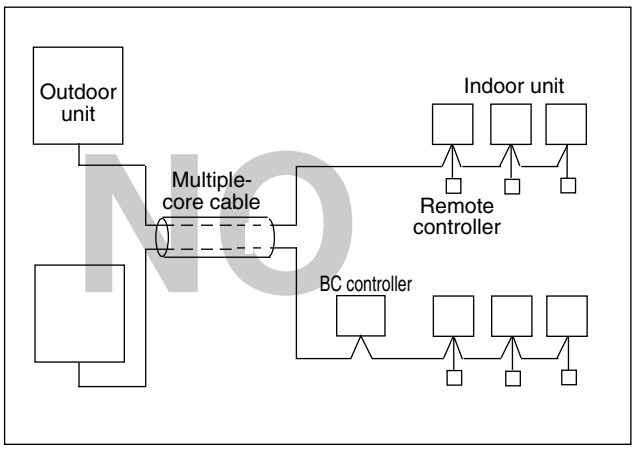
③ Be sure to provide designated grounding work to outdoor unit.

④ Give some allowance to wiring for electrical part box of indoor and outdoor units, because the box is sometimes removed at the time of service work.

⑤ Never connect 380~415V(220~240V)power source to terminal block of transmission line.If connected,electrical parts will be burnt out

⑥ Use 2-core shield cable for transmission line. If transmission lines of different systems are wired with the same multiple-core cable, the resultant poor transmitting and receiving will cause erroneous operations.





⚠ Caution

Indoor unit '-E' type can be used with R410A/R407C/R22 CITYMULTI system.
Due to the pressure difference between R410A and R407C/R22, in case of using -E indoor unit with R407C/R22 outdoor unit, pipe size have to be changed as below.

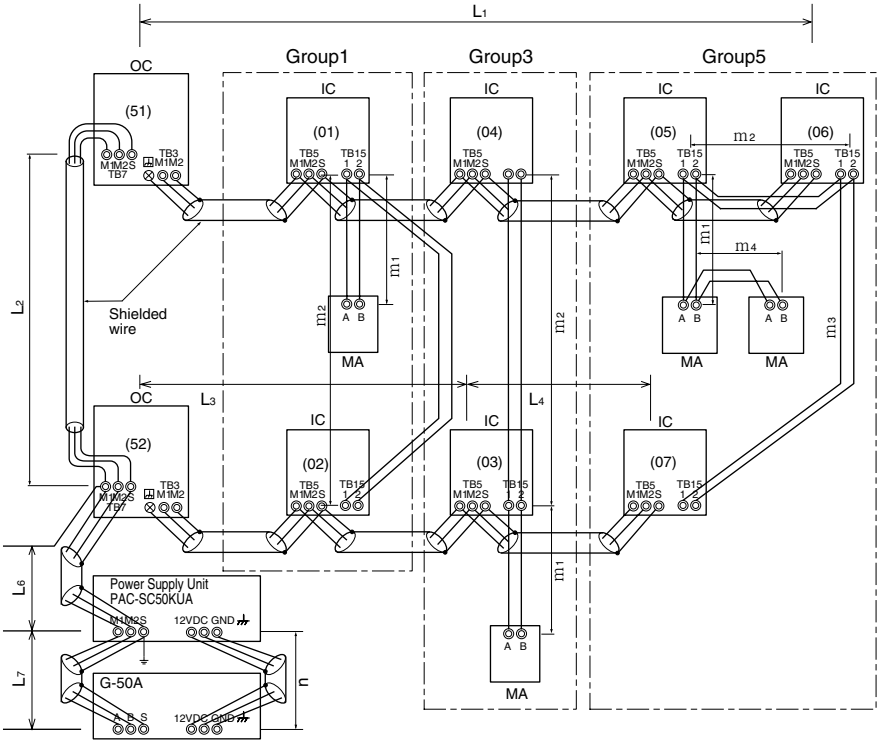
Indoor unit type	R410A	R407C	R22
-E	○	▲	▲
-B	×	○	○
-A	×	○	○

○ : OK to use
▲ : **Same pipe size as -B, -A indoor unit.**
Please refer to '2003-2004 CITYMULTI DataBook.'
× : Can not use

1.2 Allowable length of transmission line

1.2.1 PUHY,PUY-P-YGM

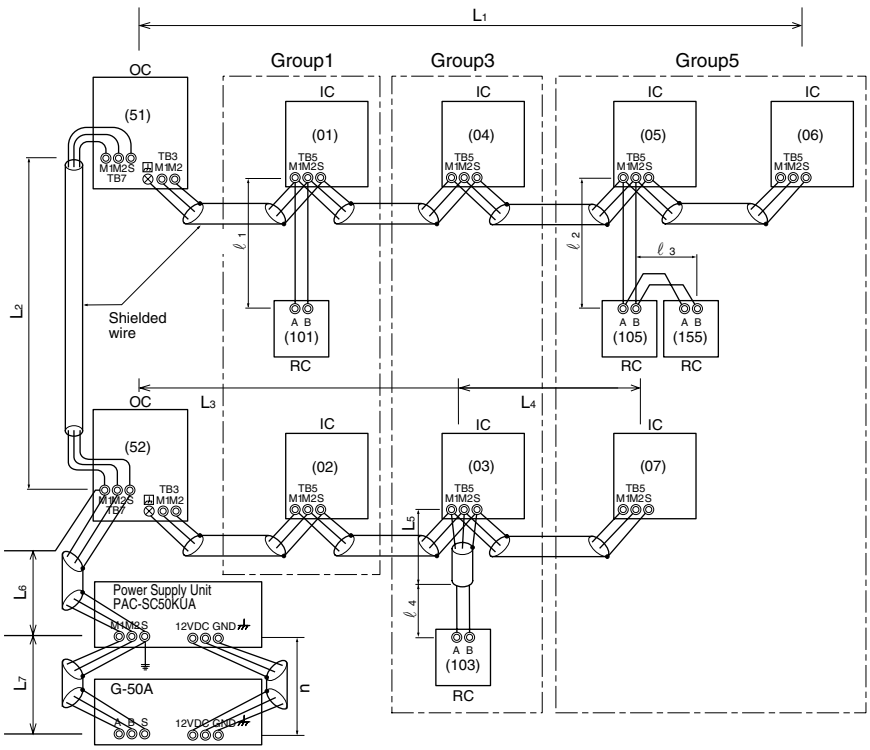
1.2.1.1 MA Remote controller



- Max length via outdoor unit (M-NET cable) : $L_1+L_2+L_3+L_4$ and $L_1+L_2+L_6+L_7$ and L_6 and $L_3+L_4+L_6+L_7 \leqq 500$ m (1.25 mm² or more)
- Max transmission cable length (M-NET cable) : L_1 and L_3+L_4 and L_6 and L_2+L_6 and $L_7 \leqq 200$ m (1.25 mm² or more)
- Remote controller cable length : m_1+m_2 and $m_1+m_2+m_3+m_4 \leqq 200$ m (0.3 to 1.25 mm²)
- DC12V power supply line : $n \leqq 10$m (0.75 to 2mm²)

Ref: ALTL-PUHY,PUY,PUMY MA

1.2.1.2 ME Remote controller

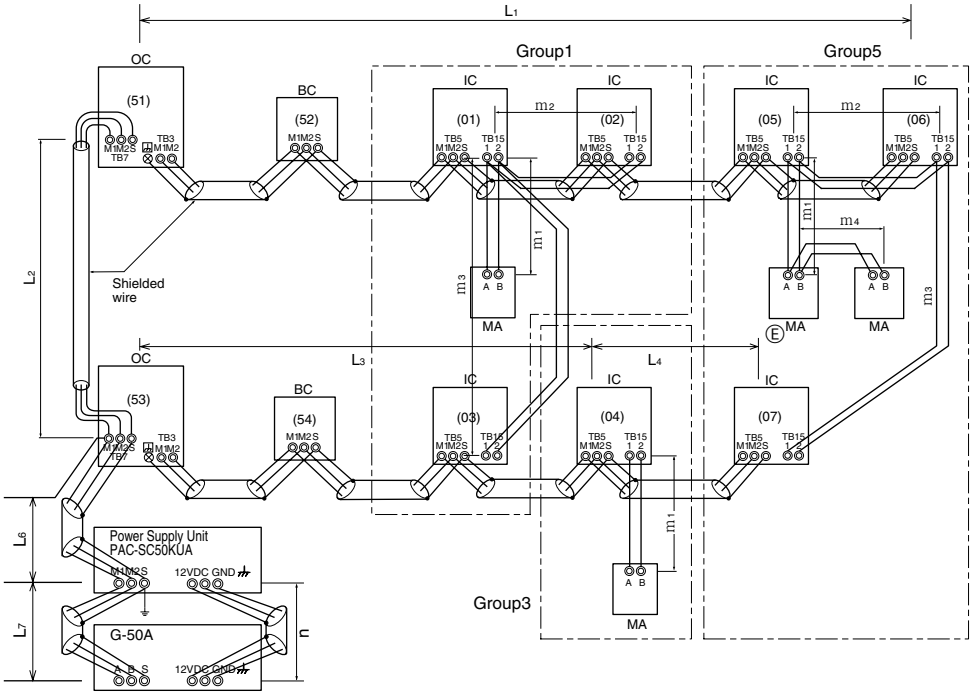


- Max length via outdoor units : $L_1+L_2+L_3+L_4$ and $L_1+L_2+L_3+L_5$ and $L_1+L_2+L_6+L_7 \leqq 500$ m (1.25 mm² or more)
- Max transmission cable length : L_1 and L_3+L_4 and L_3+L_5 and L_6 and L_2+L_6 and $L_7 \leqq 200$ m (1.25 mm² or more)
- Remote controller cable length : ℓ_1, ℓ_2, ℓ_3, $\ell_4 \leqq 10$ m (0.3 to 1.25 mm²)
  If the length exceeds 10 m, use a 1.25 mm² shielded wire. The length of this section (L_8) should be included in the calculation of the maximum length and overall length.
- DC12V power supply line : $n \leqq 10$m (0.75 to 2mm²)

Ref: ALTL-PUHY,PUY,PUMY ME

1.2.2 PURY-P200,250,300,350YGM

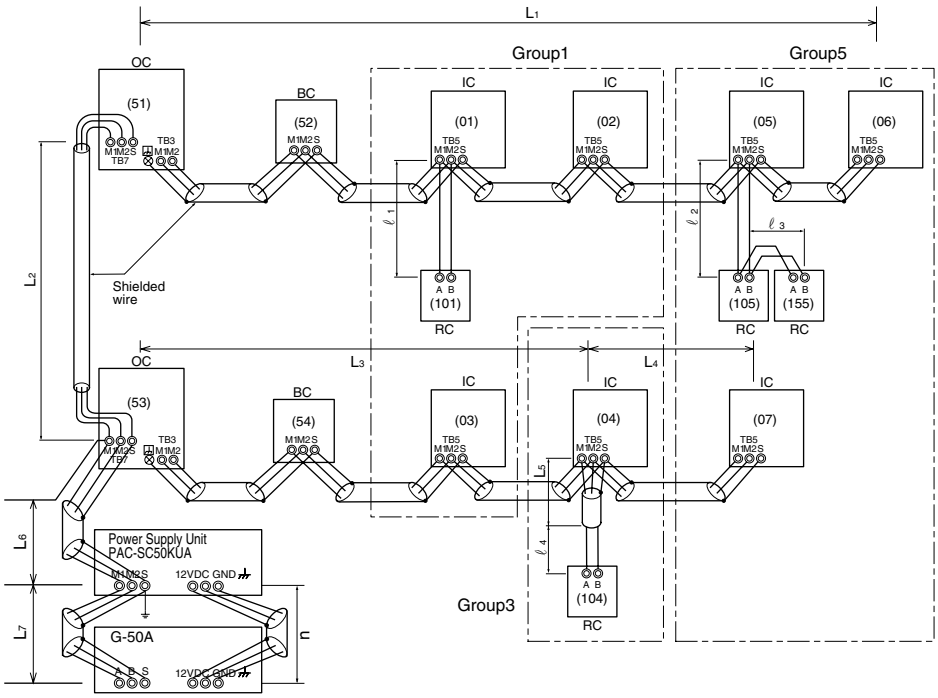
1.2.2.1 MA Remote controller



- Max length via outdoor unit (M-NET cable) : $L_1+L_2+L_3+L_4$ and $L_1+L_2+L_6+L_7$ and $L_3+L_4+L_6+L_7 \leqq 500$ m (1.25 mm² or more)
- Max transmission cable length (M-NET cable) : L_1 and L_3+L_4 and L_6 and L_2+L_6 and $L_7 \leqq 200$ m (1.25 mm² or more)
- Remote controller cable length : m_1 and $m_1+m_2+m_3$ and $m_1+m_2+m_3+m_4 \leqq 200$ m (0.3 to 1.25 mm²)
- DC12V power supply line : $n \leqq 10$m (0.75 to 2mm²)

Ref: ALTL-PURY,PQRY 1BC MA

1.2.2.2 ME Remote controller

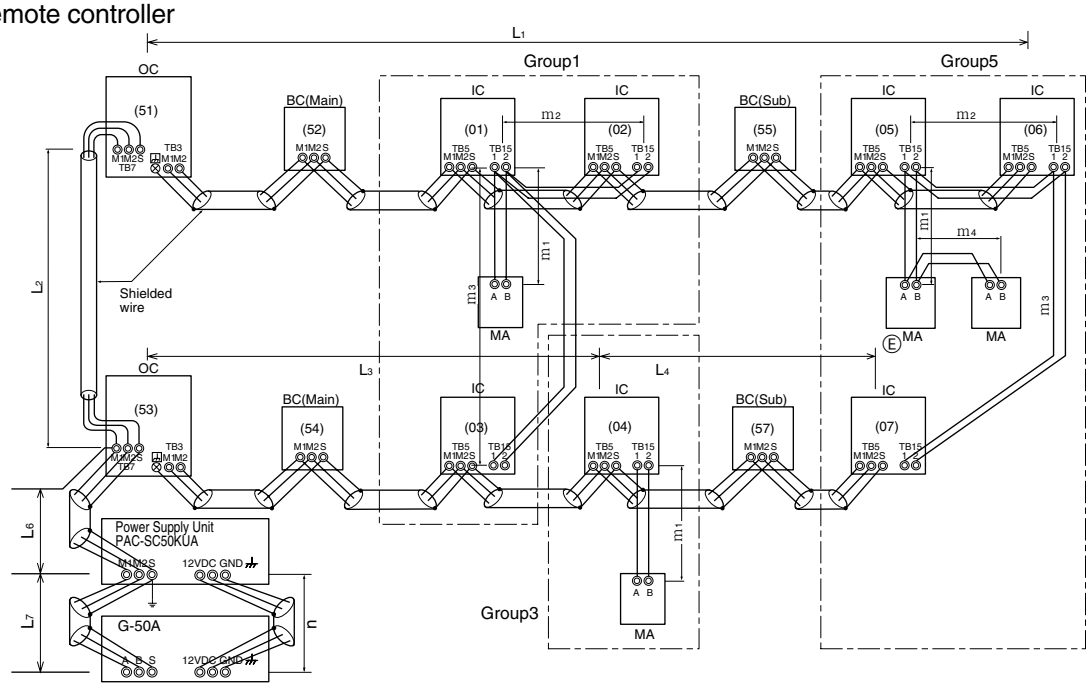


- Max length via outdoor units : $L_1+L_2+L_3+L_4$ and $L_1+L_2+L_3+L_5$ and $L_1+L_2+L_6+L_7 \leqq 500$ m (1.25 mm² or more)
- Max transmission cable length : L_1 and L_3+L_4 and L_3+L_5 and L_6 and L_2+L_6 and $L_7 \leqq 200$ m (1.25 mm² or more)
- Remote controller cable length : ℓ_1, ℓ_2, ℓ_3, $\ell_4 \leqq 10$ m (0.3 to 1.25 mm²)
  If the length exceeds 10 m, use a 1.25 mm² shielded wire. The length of this section (L_8) should be included in the calculation of the maximum length and overall length.
- DC12V power supply line : $n \leqq 10$m (0.75 to 2mm²)

Ref: ALTL-PURY,PQRY 1BC ME

1.2.3 PURY-P400,450,500,550,600,650YGM

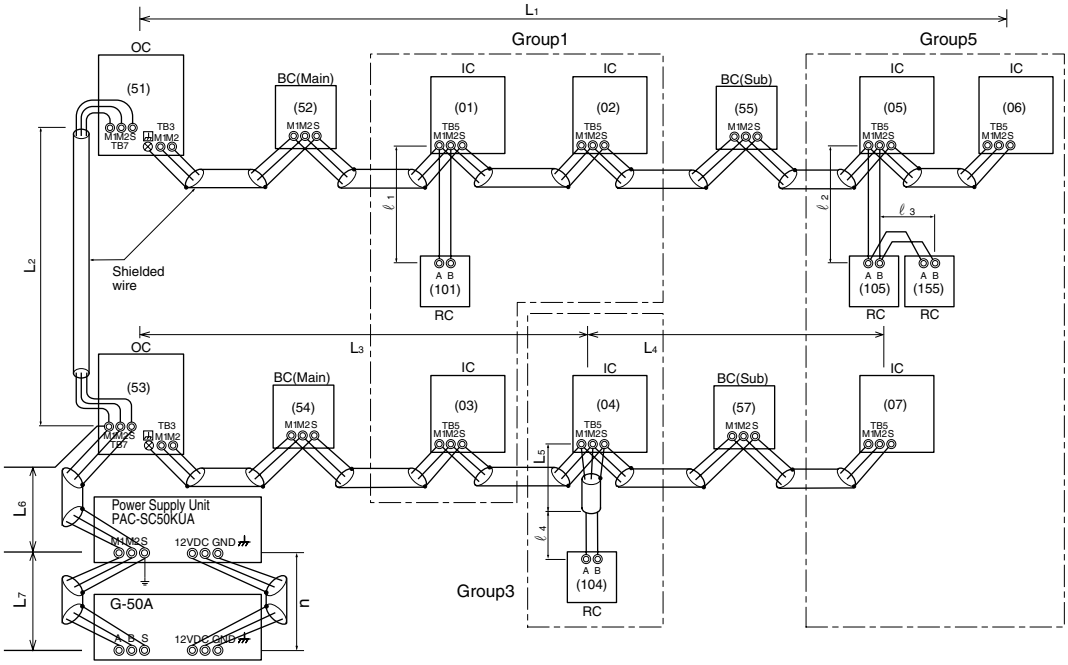
1.2.3.1 MA Remote controller



- Max length via outdoor unit (M-NET cable) : $L_1+L_2+L_3+L_4$ and $L_1+L_2+L_6+L_7$ and $L_3+L_4+L_6+L_7 \leqq 500$ m (1.25 mm² or more)
- Max transmission cable length (M-NET cable) : L_1 and L_3+L_4 and L_6 and L_2+L_6 and $L_7 \leqq 200$ m (1.25 mm² or more)
- Remote controller cable length : m_1 and $m_1+m_2+m_3$ and $m_1+m_2+m_3+m_4 \leqq 200$ m (0.3 to 1.25 mm²)
- DC12V power supply line : $n \leqq 10$m (0.75 to 2mm²)

Ref: ALTL-PURY-P400,450,500,550,600,650 2BC MA

1.2.3.2 ME Remote controller



- Max length via outdoor units : $L_1+L_2+L_3+L_4$ and $L_1+L_2+L_3+L_5$ and $L_1+L_2+L_6+L_7 \leqq 500$ m (1.25 mm² or more)
- Max transmission cable length : L_1 and L_3+L_4 and L_3+L_5 and L_6 and L_2+L_6 and $L_7 \leqq 200$ m (1.25 mm² or more)
- Remote controller cable length : ℓ_1, ℓ_2, ℓ_3, $\ell_4 \leqq 10$ m (0.3 to 1.25 mm²)
  If the length exceeds 10 m, use a 1.25 mm² shielded wire. The length of this section (L_8) should be included in the calculation of the maximum length and overall length.
- DC12V power supply line : $n \leqq 10$m (0.75 to 2mm²)

City Multi is a systemized product of which components are outdoor unit , BC controller , indoor unit ,and remote controller . Each system part has its own microcomputer, and operated by no-polarity two wires multiple transmission system. Therefore, in order for several microcomputers connected to the common two wires to identify transmitter, identification No. (address) must be set for each microcomputer.

Be sure to set address numbers at the time of installation work by using switches for setting addresses for outdoor unit , BC controller , indoor unit ,and remote controller .

When signal receiving unit is used, connect the accessory cable (polarity 2 lines) to the specified connector (CN3A) on the printed circuit board.

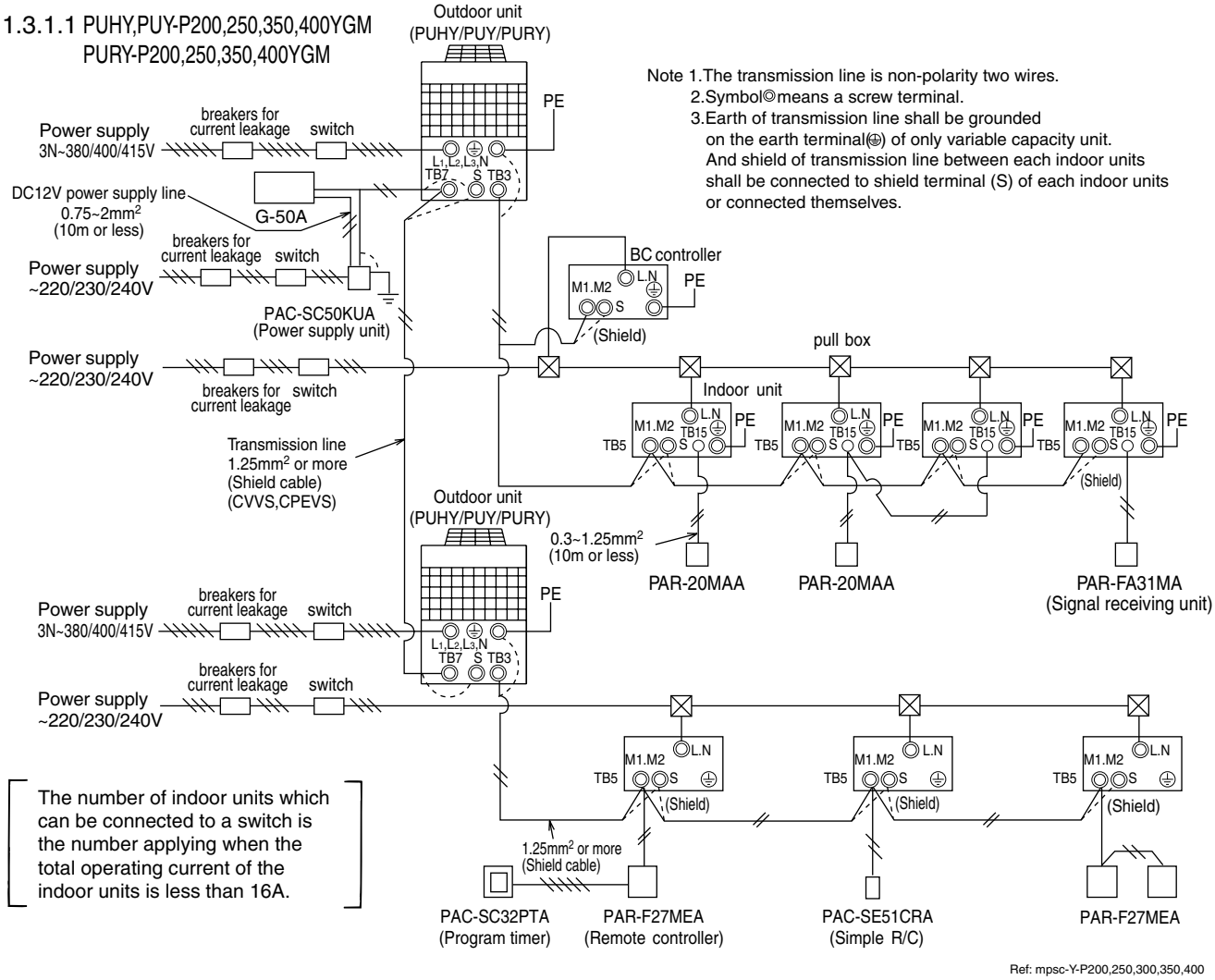
Ref: ALTL-PURY-P400,450,500,550,600,650 2BC ME

1.3 Electrical work

1.3.1 Main power supply connections

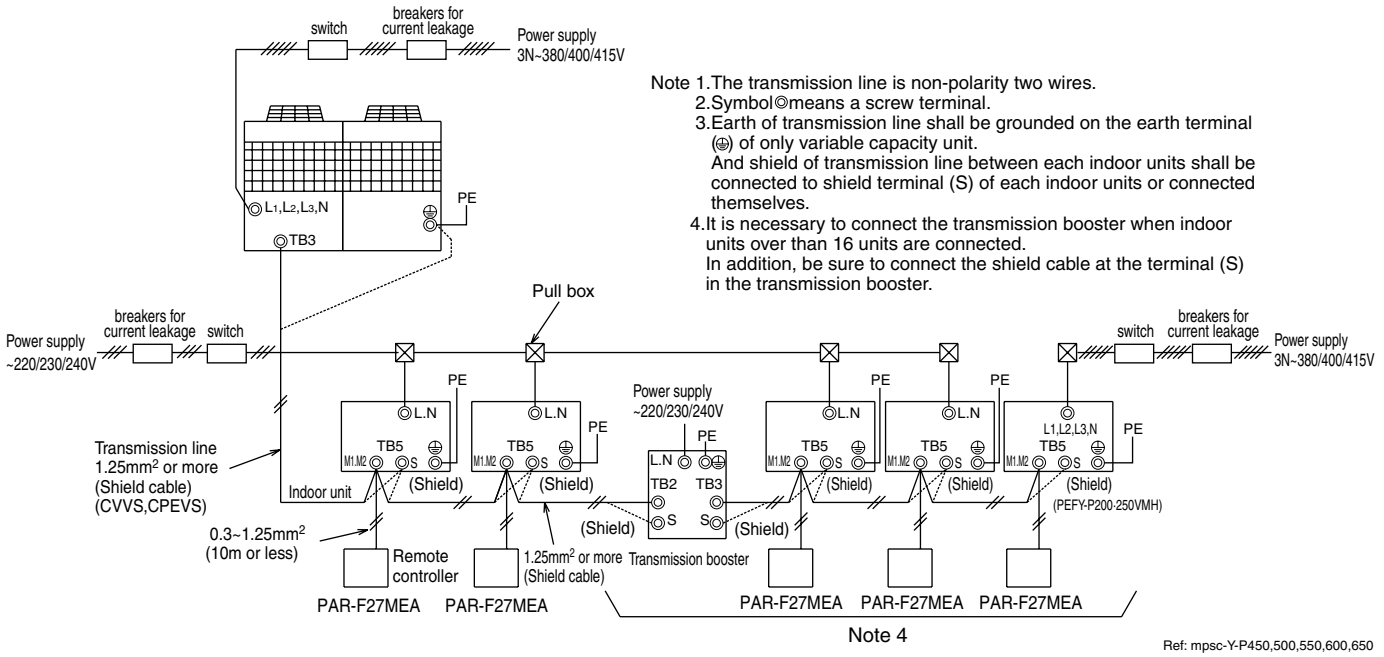
The selection of capacities should be determined in accordance with the relevant standards.

1.3.1.1 PUHY,PUY-P200,250,350,400YGM
PURY-P200,250,350,400YGM



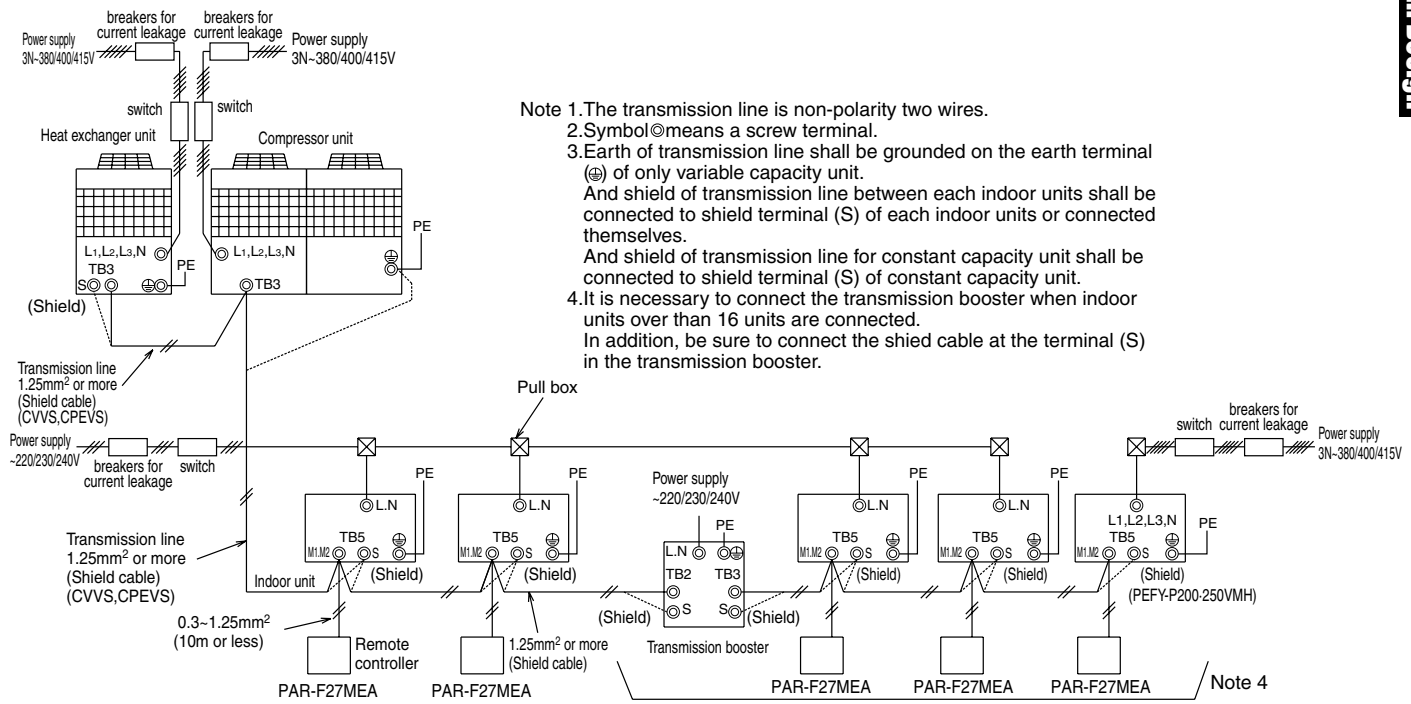
Ref: mpsc-Y-P200,250,300,350,400

1.3.1.2 PUHY-P400,450,500,550,600,650YGM



Ref: mpsc-Y-P450,500,550,600,650

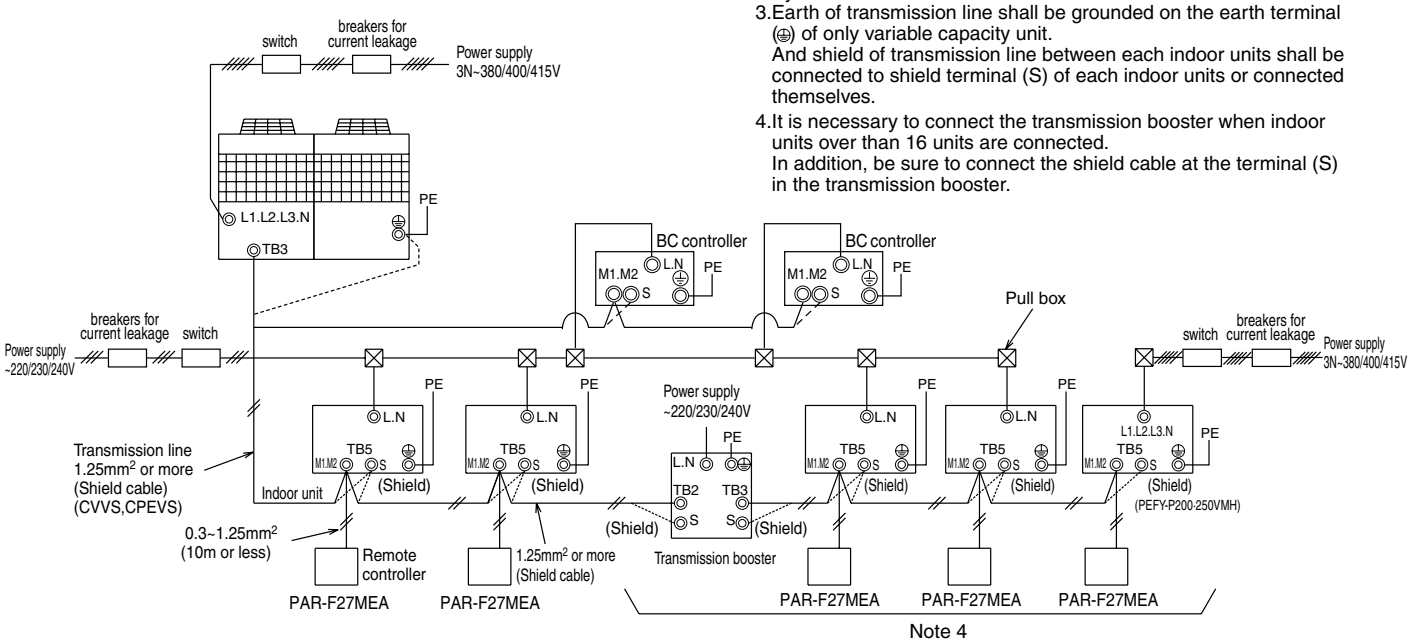
1.3.1.3 PUHY-P700,750,800YSGM



Note 1.The transmission line is non-polarity two wires.
2.Symbol ◎ means a screw terminal.
3.Earth of transmission line shall be grounded on the earth terminal (⏚) of only variable capacity unit.
And shield of transmission line between each indoor units shall be connected to shield terminal (S) of each indoor units or connected themselves.
And shield of transmission line for constant capacity unit shall be connected to shield terminal (S) of constant capacity unit.
4.It is necessary to connect the transmission booster when indoor units over than 16 units are connected.
In addition, be sure to connect the shied cable at the terminal (S) in the transmission booster.

Ref: mpsc-Y-P700,750,800

1.3.1.4 PURY-P450,500,550,600,650YGM



Note 1.The transmission line is non-polarity two wires.
2.Symbol ◎ means a screw terminal.
3.Earth of transmission line shall be grounded on the earth terminal (⏚) of only variable capacity unit.
And shield of transmission line between each indoor units shall be connected to shield terminal (S) of each indoor units or connected themselves.
4.It is necessary to connect the transmission booster when indoor units over than 16 units are connected.
In addition, be sure to connect the shield cable at the terminal (S) in the transmission booster.

Ref: mpsc-R2-P450,500,550,600,650

1.3.2 Power cable specifications

Thickness of wire for main power supply, On/Off capacities and system impedance

Model		Minimum Wire Thickness (mm^2)			Switch(A)		Breaker for Wiring (NFB)	Breaker for Current Leakage	Max. Permissive System Impedance
		Main Cable	Branch	Ground	Capacity	Fuse			
Outdoor unit	PUHY,PUY,PURY-P200YGM	4.0	4.0	4.0	25	25	30	30A 100mA 0.1sec. or less	0.48Ω
	PUHY,PUY,PURY-P250YGM	4.0	4.0	4.0	32	32	30	30A 100mA 0.1sec. or less	0.41Ω
	PUHY,PUY,PURY-P300YGM	4.0	4.0	4.0	32	32	30	30A 100mA 0.1sec. or less	0.33Ω
	PUHY,PUY,PURY-P350YGM	6.0	6.0	6.0	40	40	40	40A 100mA 0.1sec. or less	0.28Ω
	PUHY,PURY-P400YGM	10.0	10.0	10.0	63	63	60	60A 100mA 0.1sec. or less	0.24Ω
	PUHY,PURY-P450YGM	10.0	10.0	10.0	63	63	60	60A 100mA 0.1sec. or less	0.082Ω
	PUHY,PURY-P500YGM	10.0	10.0	10.0	63	63	60	60A 100mA 0.1sec. or less	0.082Ω
	PUHY,PURY-P550YGM	16.0	16.0	16.0	70	70	75	75A 100mA 0.1sec. or less	0.082Ω
	PUHY,PURY-P600YGM	16.0	16.0	16.0	70	70	75	75A 100mA 0.1sec. or less	0.082Ω
	PUHY,PURY-P650YGM	16.0	16.0	16.0	70	70	75	75A 100mA 0.1sec. or less	0.082Ω
	PUHY-P700YGM	16.0	16.0	16.0	70	70	75	75A 100mA 0.1sec. or less	0.15Ω
	PUHY-P750YGM	16.0	16.0	16.0	70	70	75	75A 100mA 0.1sec. or less	0.13Ω
	PUHY-P800YGM	16.0	16.0	16.0	70	70	75	75A 100mA 0.1sec. or less	0.12Ω
	PUHN-P01YGM	1.0	1.0	1.0	10	10	16	16A 30mA 0.1sec. or less	(apply to EN61000-3-3)
Total operating current of the indoor units ✻1	16A or less	1.5	1.5	1.5	16	16	20	20A 30mA 0.1sec. or less	(apply to EN61000-3-3)
	25A or less	2.5	2.5	2.5	25	25	30	30A 30mA 0.1sec. or less	(apply to EN61000-3-3)
	32A or less	4.0	4.0	4.0	32	32	40	40A 30mA 0.1sec. or less	(apply to EN61000-3-3)

✻1 Use a separate power supply for the outdoor unit and indoor unit.
✻2 Bear in mind ambient conditions (ambient temperature, direct sunlight, rain water, etc.) when proceeding with the wiring and connections.
✻3 The wire size is the minimum value for metal conduit wiring. The power cord size should be 1 rank thicker with consideration of voltage drops. Make sure the power supply voltage does not drop more than 10%.
✻4 Specific wiring requirements should adhere to the wiring regulations of the region.
✻5 Power supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord (design 245 IEC57). For example, use wiring such as YZW.
✻6 A switch with at least 3 mm contact separation in each pole shall be provided by the Air conditioner installation.

⚠ Warning:

- Be sure to use specified wires to connect so that no external force is imparted to terminal connections. If connections are not fixed firmly, it may cause heating or fire.
- Be sure to use the appropriate type of overcurrent protection switch. Note that generated overcurrent may include some amount of direct current.

⚠ Caution:

- Some installation site may require attachment of an earth leakage breaker. If no earth leakage breaker is installed, it may cause an electric shock.
- Do not use anything other than breaker and fuse with correct capacity. Using fuse and wire or copper wire with too large capacity may cause a malfunction of unit or fire.

Note :

This device is intended for the connection to a power supply system with a maximum permissible system impedance shown in the above table at the interface point (power service box) of the user's supply.
The user has to ensure that this device is connected only to a power supply system which fulfills the requirement above.
If necessary, the user can the ask the public power supply company for the system impedance at the interface point.

1.3.3 Control cable specifications

	Transmission cables	M-NET Remote controller cables	MA Remote controller cables
Type of cable	Shielding wire (2-core) CVVS or CPEVS	Sheathed 2-core cable (unshielded) CVV	
Cable diameter	More than 1.25mm^2	0.3 ~ 1.25mm^2 (0.75 ~ 1.25mm^2) ✻1	0.3 ~ 1.25mm^2 (0.75 ~ 1.25mm^2) ✻1
Remarks	—	When 10m is exceeded, use cables with the same specification as transmission cables.	Max length : 200m

✻1 Connected with simple remote controller.
CVVS : PVC insulated PVC jacketed shielded control cable
CPEVS : PE insulated PVC jacketed shielded communication cable
CVV : PV insulated PVC sheathed control cable

1.4 System configuration restrictions

1.4.1 Restrictions for system configuration (restrictions that are common to all units)

Number of units connectable to each unit.

(1) Indoor unit

·Number of connectable remote controllers (in a group) ····· 2 max.

·Number of connectable ventilation units ····· 1

(2) Remote controller

·Number of connectable indoor units (in a group) ····· 16 max.

(3) Ventilation unit

·Number of connectable indoor units ····· 16 max.

(4) Outdoor unit

① Indoor/outdoor automatic address start-up (without connection to the system controller) (Note 4)

·Number of connectable ventilation units within a single refrigerant system (Note 3) ····· 1

		Total number of connected indoor units in a refrigerant circuit. (Notes 2, 8)
		Using MA remote controller
PUHY-P200-800YGM PURY-P200-300YGM	If no indoor unit connected is above P200.	32 units max
	If indoor unit connected is P200 or above.	26 units max.
PURY-P350-650YGM	If no indoor unit connected is above P200.	30 units max.
	If indoor unit connected is P200 or above.	24 units max.

② Indoor/Outdoor manual address start-up (without connection to the system controller)

		Total number of connected indoor units in a refrigerant circuit. (Notes 2, 8)	
		Using MA remote controller	Using ME remote controller
PUHY-P200-800YGM PURY-P200-300YGM	If no indoor unit connected is above P200.	32 units max	20 units max. (40 units)
	If indoor unit connected is P200 or above.	26 units max.	16 units max. (32 units)
PURY-P350-650YGM	If no indoor unit connected is above P200.	30 units max.	18 units max. (36 units)
	If indoor unit connected is P200 or above.	24 units max.	14 units max. (28 units)

③ Start-up with a connection to system controller

·Number of connectable system controllers when connecting to indoor/outdoor transmission lines. ····· 3 max.

·Number of connectable units when connected to the transmission lines for centralized control and when power is supplied from the outdoor unit. (Notes 5, 6) ····· 3 max.

·With connection to the centralized controller (G-50) (1 unit) (Note 7)

		Total number of connected indoor units in a refrigerant circuit. (Notes 2, 8)	
		Using MA remote controller	Using ME remote controller
PUHY-P200-800YGM PURY-P200-300YGM	If no indoor unit connected is above P200.	29 units max	17 units max. (37 units)
	If indoor unit connected is P200 or above.	23 units max.	13 units max. (29 units)
PURY-P350-650YGM	If no indoor unit connected is above P200.	27 units max.	15 units max. (33 units)
	If indoor unit connected is P200 or above.	21 units max.	11 units max. (25 units)

·With connection to the other system controller (1 unit) (Note 7)

		Total number of connected indoor units in a refrigerant circuit. (Notes 2, 8)	
		Using MA remote controller	Using ME remote controller
PUHY-P200-800YGM PURY-P200-300YGM	If no indoor unit connected is above P200.	31 units max	19 units max. (39 units)
	If indoor unit connected is P200 or above.	25 units max.	15 units max. (31 units)
PURY-P350-650YGM	If no indoor unit connected is above P200.	29 units max.	17 units max. (35 units)
	If indoor unit connected is P200 or above.	23 units max.	13 units max. (27 units)

Note 1 Refer to the system configuration table for each unit for information on the maximum number of connectable indoor units.
When the number of connected indoor units exceeds the number of connectable units listed in the previous page, a power supply extension unit for transmission lines (PAC-SF46EPA) is required. However, if the system controller is connected to the indoor/outdoor transmission lines, boosters for transmission lines cannot be used.

Note 2 A total number of connectable units within the refrigerant system is the sum of the number of indoor units and ventilation units (with heat in humidifying functions).

Note 3 When ventilation units are connected using the indoor/outdoor automatic address startup, all indoor units within the refrigerant system will automatically be linked and registered.
Interlocking registration of indoor units and ventilation units is necessary unless indoor/outdoor automatic address start-up is used.

Note 4 Indoor/Outdoor automatic address start-up cannot be performed under the following conditions:
The total number of indoor and ventilation units in a given refrigerant circuit exceeds 16.
When the refrigerant circuit has 2 or more ventilation units
When a BC sub controller is connected to a system consisting of the R2 series.
When running a group operation of multiple indoor units, using the external start/stop input function.

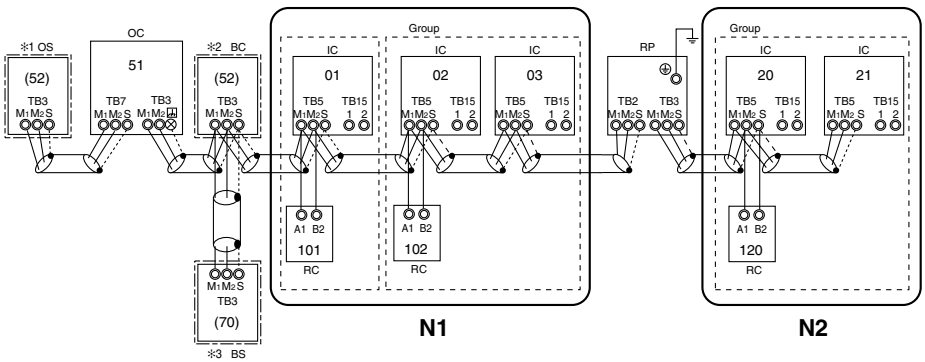
Note 5 When a system controller is connected to the indoor-outdoor transmission lines, or when the power is supplied from the outdoor units, the power supply to the system controller will be cut off and it will cease to function when the power to the outdoor unit is shut off.

Note 6 Power supply unit for transmission lines (PAC-SC50KUA) is required in order to connect 4 or more system controllers. Refer to 1.4.2.3 for details.

Note 7 The number of connectable indoor units is decreased by the number of indoor unit equivalents as shown in the table below.

Central controller (G-50A)	Other system controllers	
	ON/OFF Remote controller (AN)	System remote controller (SR) Schedule timer (ST) Group remote controller (GR)
Equals to 3 indoor units	Equals to 1 indoor unit	Equals to 0.5 indoor unit

Note 8 The figures in the parenthesis indicate the total number of indoor units (outside air handling unit) and ME remote controller.
Connecting the power supply extension unit for transmission lines
When the total number of connected units within a given refrigerant system exceeds the maximum number of connectable units specified, a power supply extension unit for transmission lines is required.
The number of indoor units between outdoor units and power supply extension unit for transmission lines (N1) and the number of indoor units after the extension unit must be within the numbers shown in the previous page.



IC : Indoor unit
RC : ME remote controller
OC : Outdoor unit
RP : Transmission booster

*1 OS : Exists only with *** YSGM-A type.
*2 BC : Exists only with PURY system.
*3 BS : Connectable only when using PURY-P400,450,500,550,600,650 system

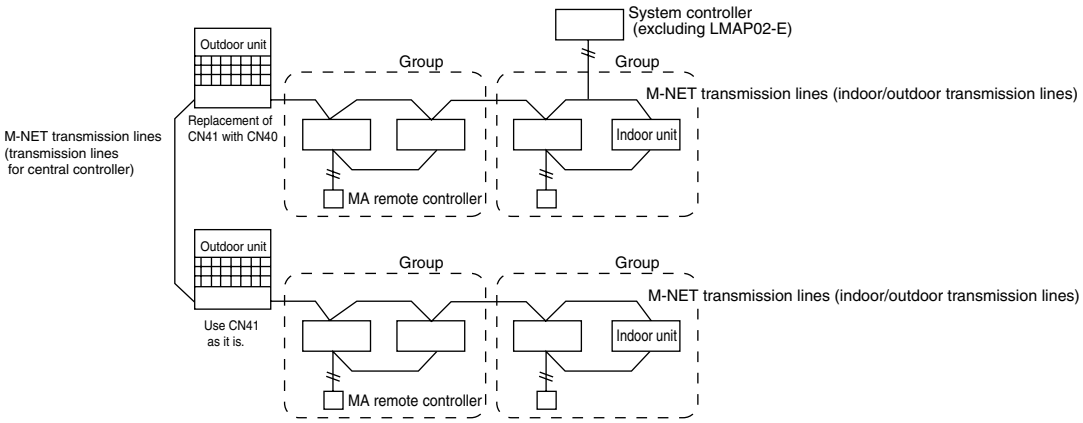
1.4.2 Power supply to the system controller

The power to the system controller is fed from the M-NET transmission lines (except for LMAP02-E).
The power to the M-NET transmission lines is fed in one of the following three ways:

① Through connection to the indoor/outdoor transmission lines
② Through connection to transmission lines for centralized controller with the power being fed from the outdoor units
③ Through connection to transmission lines for centralized controller and to the power supply extension unit for transmission lines (PAC-SC50KUA)

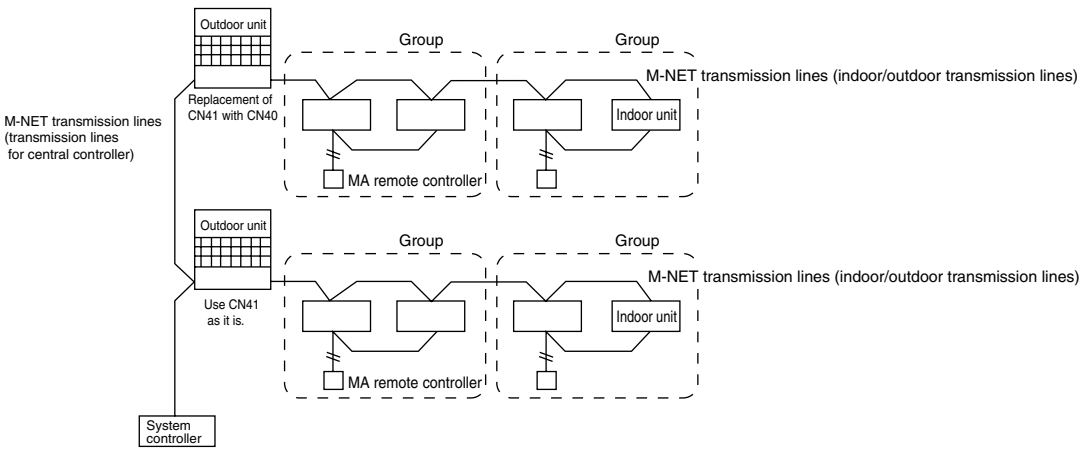
1.4.2.1 When connected to the indoor/outdoor transmission lines

A maximum of 3 system controllers can be connected to the indoor/outdoor transmission lines of the M-NET transmission lines (maximum of 2 in the case of G-50).
Refer to the section on the restrictions for system configuration (1.4) for information on the total number of connectable units within a system.
In a multiple-refrigerant system, a replacement of power supply switch connector (CN41) with CN40 on one outdoor unit is necessary.



1.4.2.2 When connected to the transmission lines for central controller with the power being fed from the outdoor units. (except for G-50A)

A maximum of 3 system controllers can be connected without the power supplier for the transmission lines (PAC-SC50KUA) being connected to the transmission lines for central controller of the M-NET transmission lines, although the power supply switch connector (CN41) on one outdoor unit needs to be replaced with CN40.
Refer to the section on the restrictions for system configuration (1.4) for information on the total number of connectable units within a refrigerant system.



❊ When a system controller is connected to the indoor-outdoor transmission lines, or when the power is supplied from the outdoor units, the power supply to the system controller will be cut off and it will cease to function when the power to the outdoor unit is shut off.
❊ The number of connectable indoor units is decreased by the number of indoor unit equivalents as shown in the table below.

Central controller (G-50A)	Other system controllers	
	ON/OFF remote controller (AN)	System remote controller (SR) Schedule timer (ST) Group remote controller (GR)
Equals to 0.5 indoor units	Equals to 1 indoor unit	Equals to 0.5 indoor unit

1.4.2.3 When connected to the transmission lines for centralized controller and to the power supply unit for transmission lines (PAC-SC50KUA)

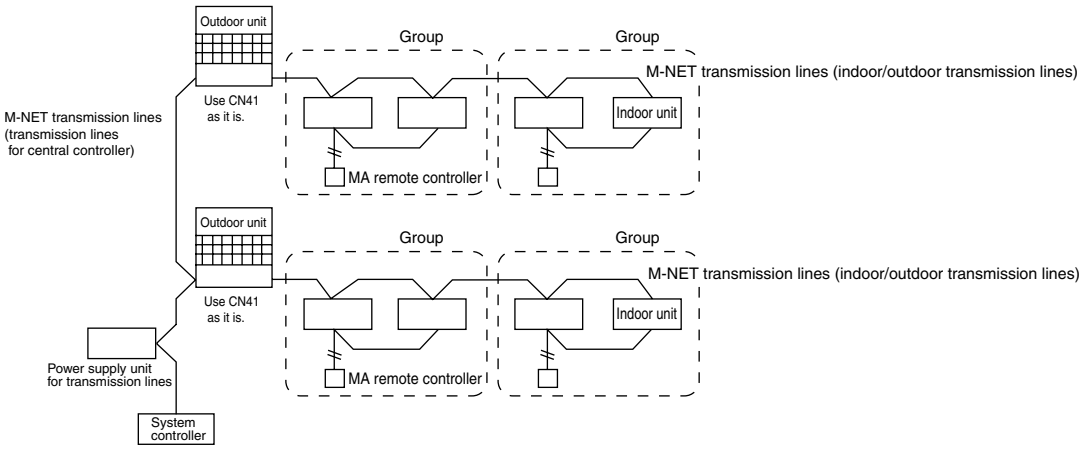
Those system controllers listed in the table below can be connected to a PAC-SC50KUA.
In this case, leave the power supply switch connector CN41 on the outdoor unit as it is (factory setting)

Central controller (G-50A)	Other system controllers	
	ON/OFF remote controller (AN)	System remote controller (SR) Schedule timer (ST) Group remote controller (GR)
2 units (Note 1)	6 units	12 units

The amount of power consumption is as follows:
One G-50A = One SR/ST/GR respectively. The amount of power consumption of each of the SR, ST, and GR equals to that of G-50A.
One AN = Two SR/ST/GR respectively. The amount of power consumption of S SR, ST, or GR is half of that of the AN.
(Note 1) 2 central controllers (G-50A) may be connected when the system is divided.

⚠ CAUTION

- It is recommended that G-50A be connected to the centralized control transmission line because it performs backups of a number of data.
- If a G-50A is connected to the indoor/outdoor transmission line and if the power supply to the connected outdoor units is cut off, communication with the outdoor units in other system will also be disrupted. When this happens, the account information cannot be obtained correctly. When the apportioned electric power function is used, be sure to connect the G-50A to the centralized control transmission line.



1.4.2.4 In the case of LMAP02-E

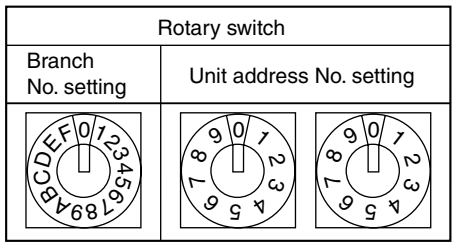
A single-phase 220-240A VAC power supply is required.

※ The power supply unit for transmission line is not required when connecting only the LM adaptor, but the LM adaptor power supply changeover connector must be changed from (CN41) to (CN40).

1.5 Address setting

1.5.1 Switch operation

In order to constitute CITY MULTI in a complete system, switch operation for setting the unit address No. and connection No. is required.



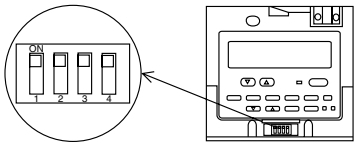
① Address No. of outdoor unit, indoor unit and remote controller.
The address No. is set at the address setting board.
In the case of R2 system, it is necessary to set the same No. at the branch No. switch of indoor unit as that of the BC controller connected. (When connecting two or more branches, use the lowest branch No.)

② Caution for switch operations

- Be sure to shut off power source before switch setting. If operated with power source on, switch can not operate properly.
- No units with identical unit address shall exist in one whole air conditioner system. If set erroneously, the system can not operate.

③ MA remote controller

- When connecting only one remote controller to one group, it is always the main remote controller.
  When connecting two remote controllers to one group, set one remote controller as the main remote controller and the other as the sub remote controller.
- The factory setting is “Main”.

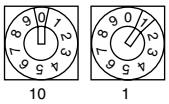
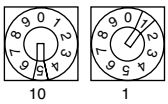
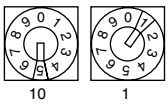
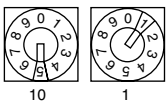
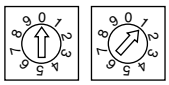
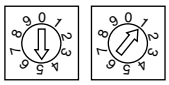
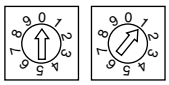
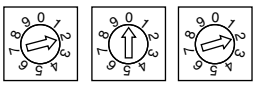
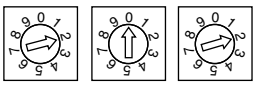
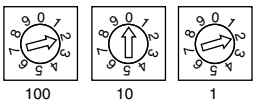
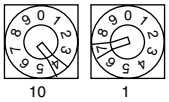


Setting the dip switches

The dip switches are at the bottom of the remote controller.
Remote controller Main/Sub and other function settings are performed using these switches.
Ordinarily, only change the Main/Sub setting of SW1. (The factory settings are all “ON”.)

SW No	SW contents Main	ON	OFF	Comment
1	Remote controller Main/Sub setting	Main	Sub	Set one of the two remote controllers at one group to “Main”.
2	When remote controller power turned on	Normally on	Timer mode on	When you want to return to the timer mode when the power is restored after a power failure when a Program timer is connected, select “Timer mode”.
3	Cooling/heating display in AUTO mode	Yes	No	When you do not want to display “Cooling” and “Heating” in the Auto mode, set to “No”.
4	Intake temperature display	Yes	No	When you do not want to display the intake temperature, set to “No”.

1.5.2 Rule of address setting

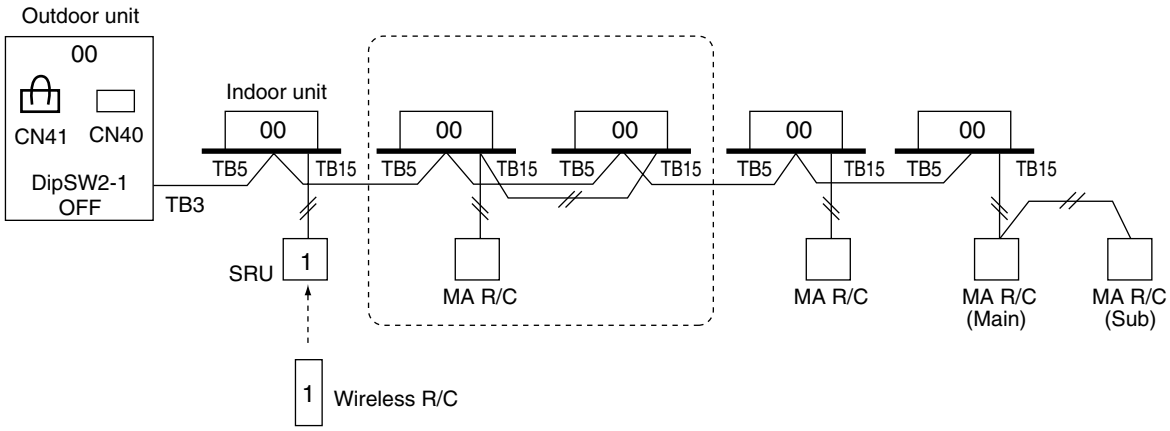
Unit		Address setting	Example	Note
Indoor unit		01 ~ 50		Use the most recent address within the same group of indoor units. Make the indoor units address connected to the BC controller (Sub) larger than the indoor units address connected to the BC controller (Main). If applicable, set the sub BC controllers in an PURY system in the following order: (1) Indoor unit to be connected to the BC controller (Main) (2) Indoor unit to be connected to the BC controller (No.1 Sub) (3) Indoor unit to be connected to the BC controller (No.2 Sub) Set the address so that (1)<(2)<(3)
Outdoor unit Heat source unit		51 ~ 99, 100		The smallest address of indoor unit in same refrigerant system + 50 ※ The address automatically becomes "100" if it is set as "01~ 50"
BC controller (Main)		52 ~ 99, 100		The address of outdoor unit + 1 ※ Please re-set another address between 01 and 50 when two addresses overlap. ※ The address automatically becomes "100" if it is set as "01~ 50"
BC controller (Sub)		52 ~ 99, 100		Lowest address within the indoor units connected to the BC controller (Sub) plus 50.
Local remote controller	M-NET, LOSSNAY Remote controller (Main)	101 ~ 150	1 Fixed 	The smallest address of indoor unit in the group + 100 ※ The place of "100" is fixed to "1"
Local remote controller	M-NET, LOSSNAY Remote controller (Sub)	151 ~ 199, 200	1 Fixed 	The address of main remote controller + 50 ※ The address automatically becomes "200" if it is set as "00"
System controller	Group remote controller	201 ~ 250	2 Fixed 	The smallest group No. to be managed + 200
System controller	System remote controller	000, 201 ~ 250		
System controller	ON/OFF remote controller	000, 201 ~ 250		
System controller	G-50A	000, 201 ~ 250		
System controller	LMAP02-E	201 ~ 250	2 Fixed 	

1.5.3 System example

Factory setting

Setting of the switches when the units are shipped from the factory is as follows.
- Outdoor unit : Address : 00
  On CN41
  SW2-1: OFF
- Indoor unit : Address : 00
- Remote controller : Address : 100
- LMAP : Address : 247
  On CN41
  SW 1-2 : OFF

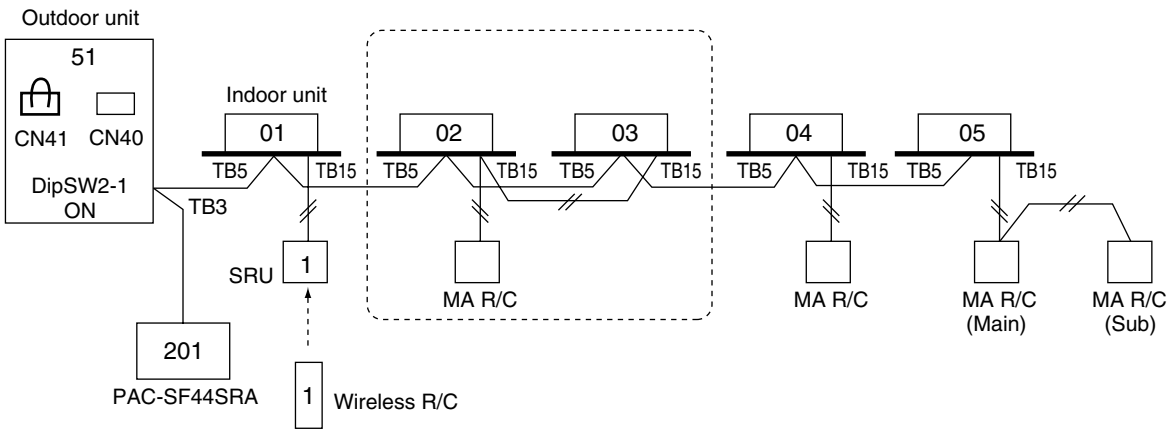
1.5.3.1 Example : Basic



MA R/C : PAR-20MAA
SRU(Signal receiving unit) : PAR-FA31MA
Wireless R/C : PAR-FL31MA

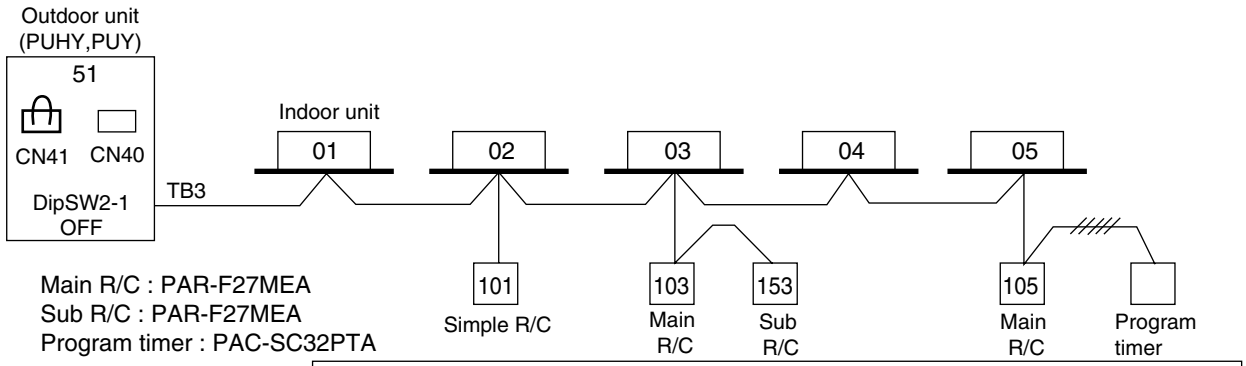
NOTE
- It is not necessary to set all of address.

1.5.3.2 Example : Basic + PAC-SF44SRA



MA R/C : PAR-20MAA
SRU(Signal receiving unit) : PAR-FA31MA
Wireless R/C : PAR-FL31MA
System remote controller : PAC-SF44SRA

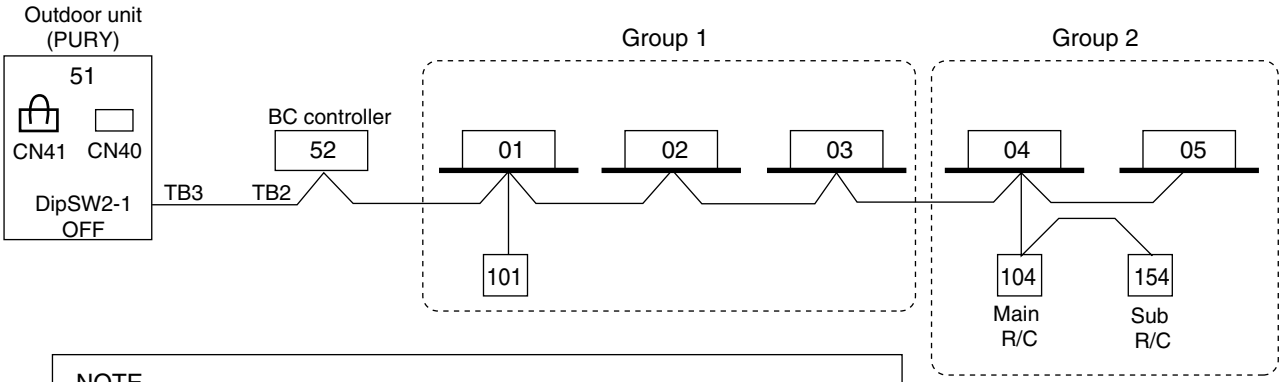
1.5.3.3 Example : Basic + Timer + Sub/main



Main R/C : PAR-F27MEA
Sub R/C : PAR-F27MEA
Program timer : PAC-SC32PTA

NOTE
- It is necessary to install the other polarity wires when the wireless R/C is used.

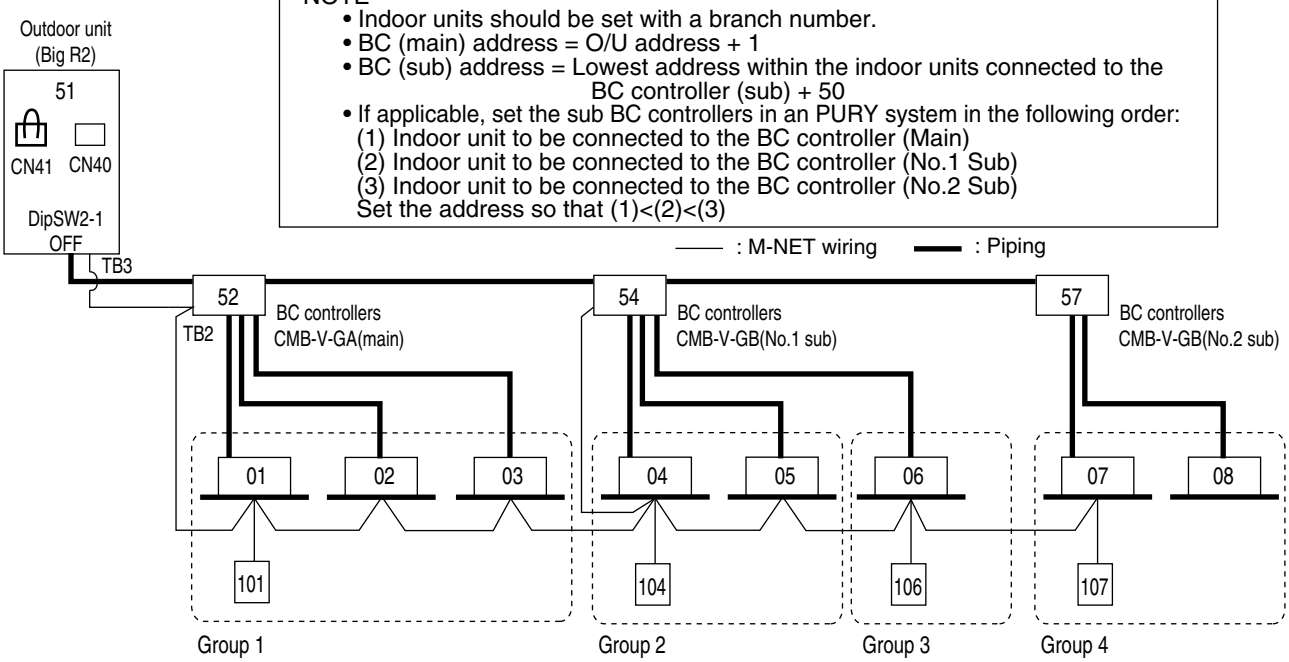
1.5.3.4 Example : Basic + BC + Sub/main



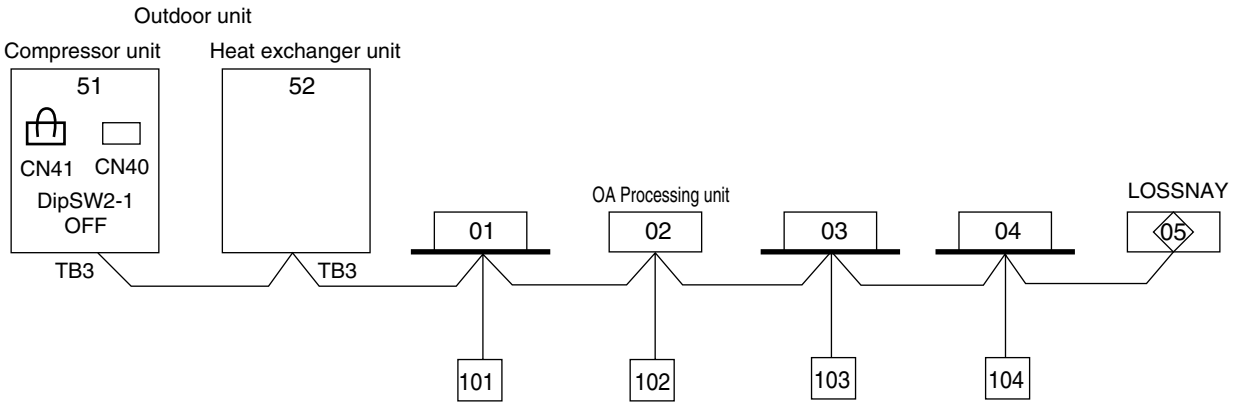
NOTE
- BC address = O/U address + 1
- R/C address = the smallest address of indoor unit + 100 in same group
- Sub R/C address = Main R/C address + 50
- Indoor units should be set with a branch number.

1.5.3.5 Example : BC + BC sub

NOTE
- Indoor units should be set with a branch number.
- BC (main) address = O/U address + 1
- BC (sub) address = Lowest address within the indoor units connected to the BC controller (sub) + 50
- If applicable, set the sub BC controllers in an PURY system in the following order:
  (1) Indoor unit to be connected to the BC controller (Main)
  (2) Indoor unit to be connected to the BC controller (No.1 Sub)
  (3) Indoor unit to be connected to the BC controller (No.2 Sub)
  Set the address so that (1)<(2)<(3)

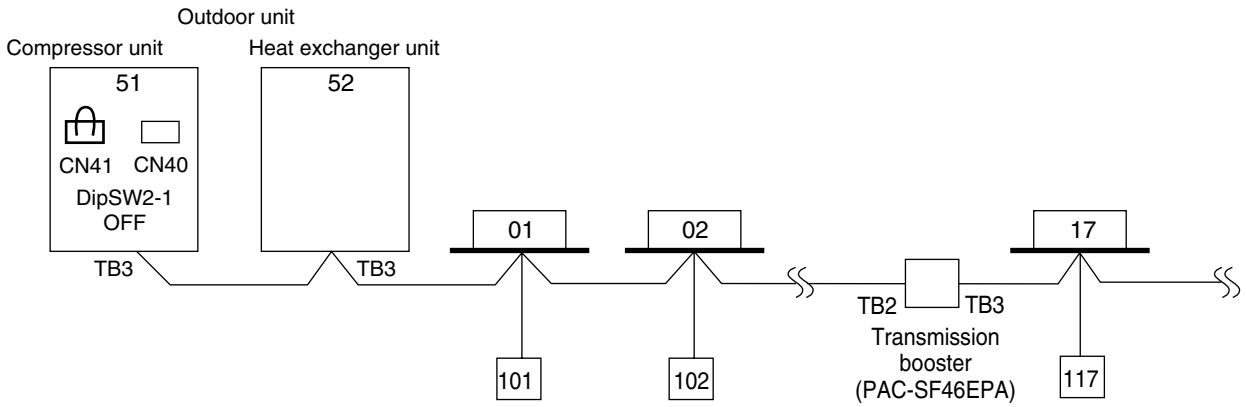


1.5.3.6 Example : P700~



NOTE
- Heat exchanger unit address = Compressor unit address + 1

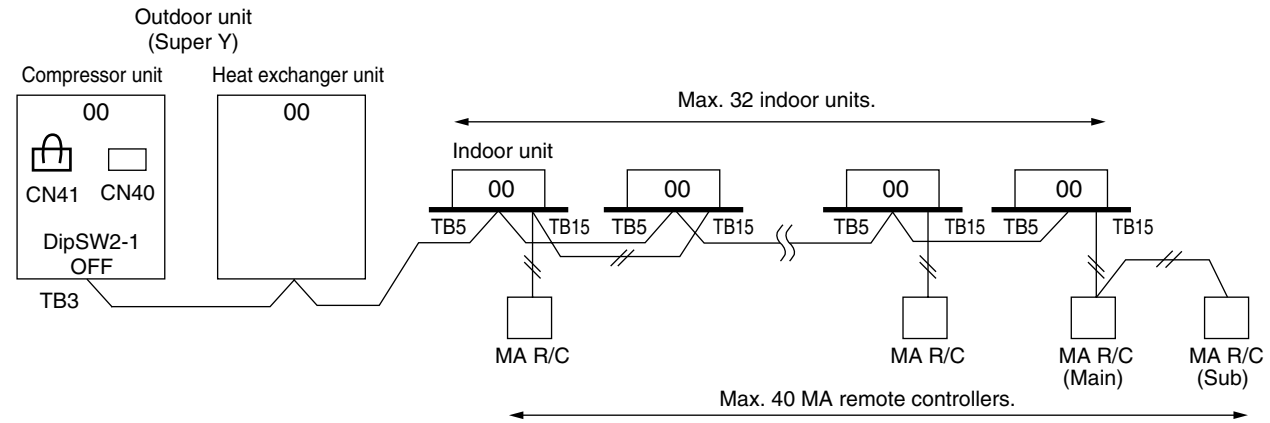
1.5.3.7 Example : P700~ + Booster



Note

A transmission booster is required when the total number of connected units in the refrigerant system exceeds the maximum number of units specified. Refer to section 1.4 "System configuration restrictions" for information on the restrictions on the number of units to be connected.

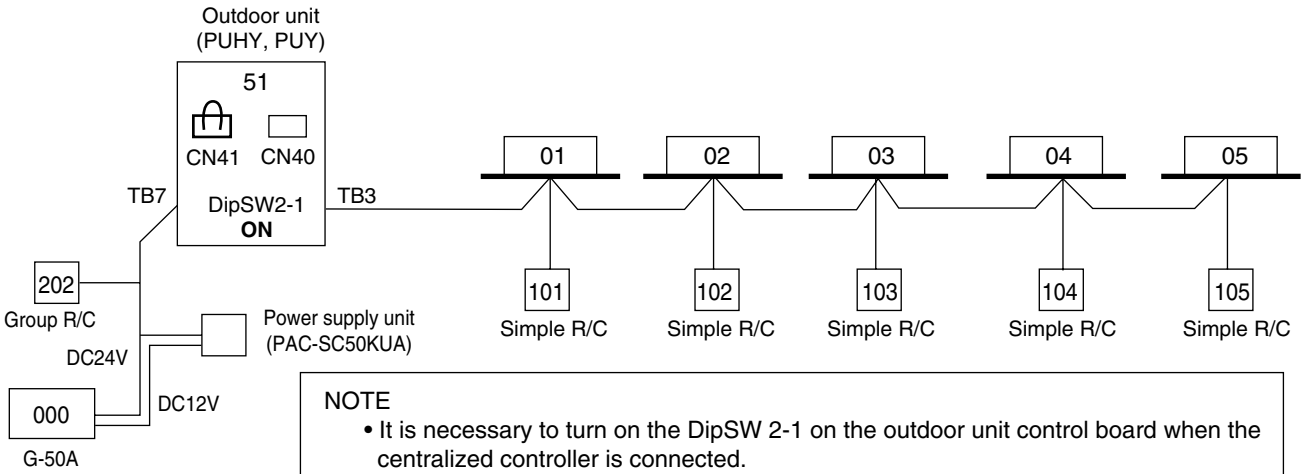
1.5.3.8 Example : P700~ + MA



MA R/C : PAR-20MAA

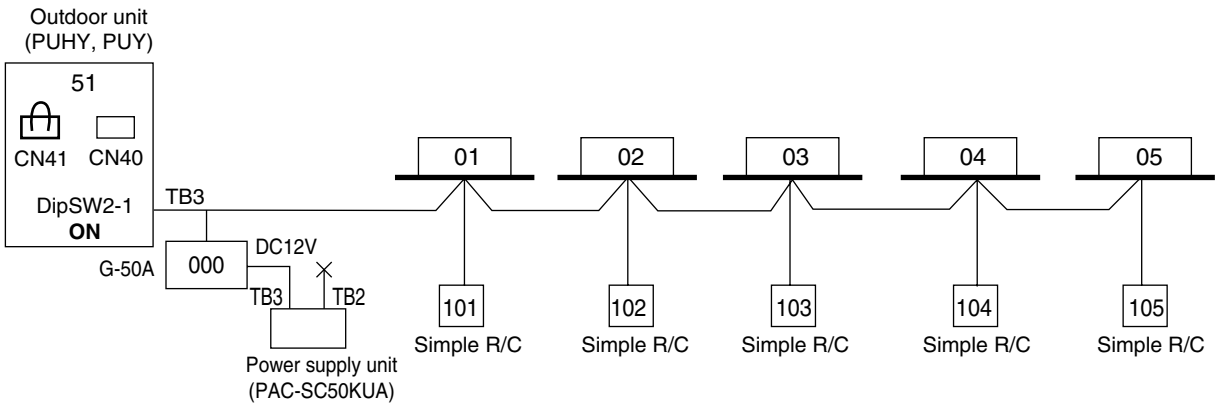
NOTE
- It is not necessary to install the transmission booster on the MA remote controller system.

1.5.3.9 Example : G-50, TB7



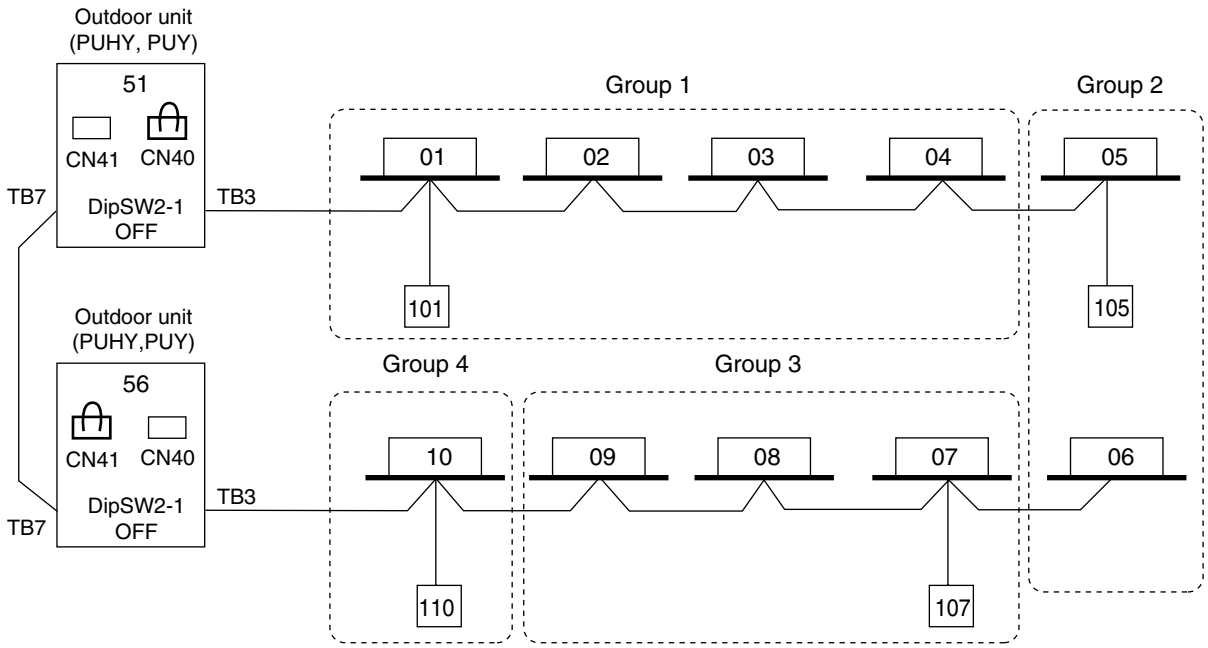
NOTE
- It is necessary to turn on the DipSW 2-1 on the outdoor unit control board when the centralized controller is connected.
- Be sure to connect other controllers (Ex. G-50A) when the simple R/C is used because the running mode can not be changed by simple R/C.

1.5.3.10 Example : G-50, TB3



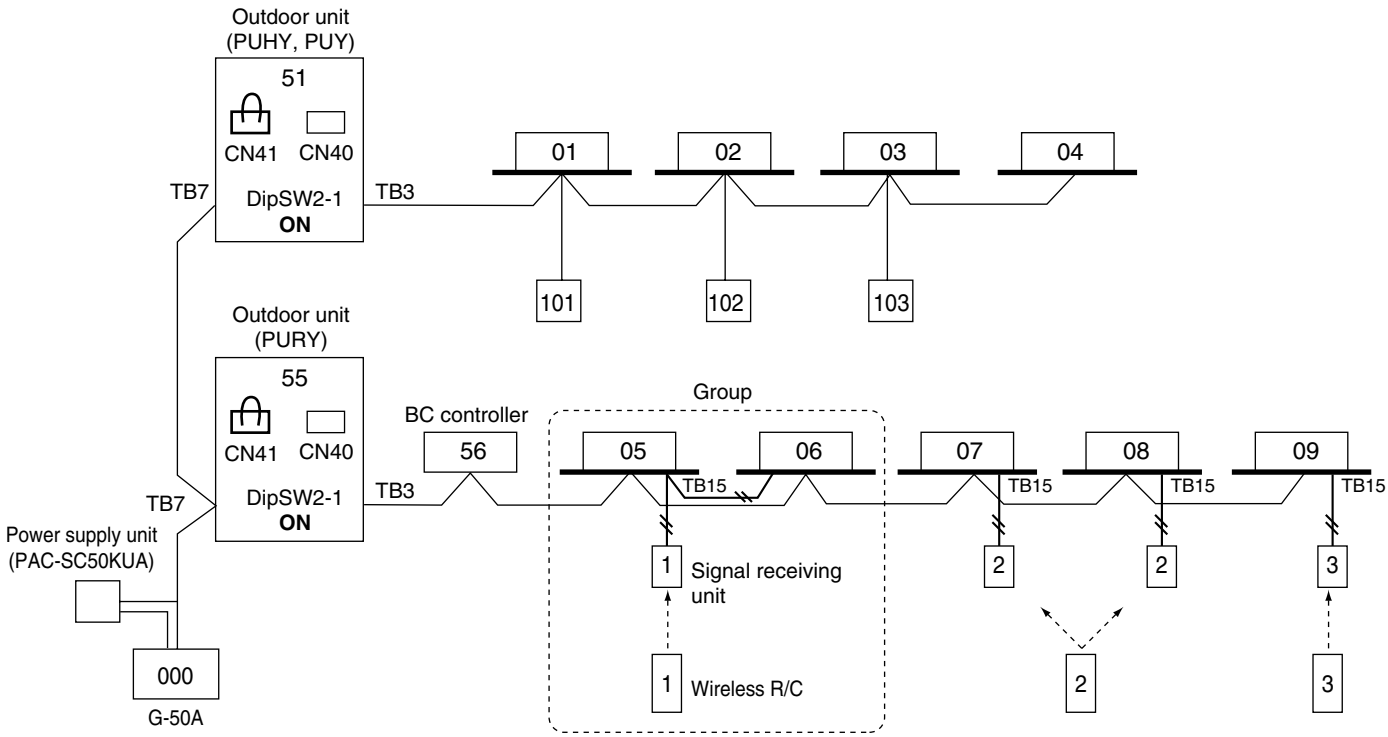
NOTE
- It is not necessary to connect the M-NET line between G-50A and Power supply unit (TB2) when G-50A is connected on the indoor line.

1.5.3.11 Example : Grouping in different refrigerant system

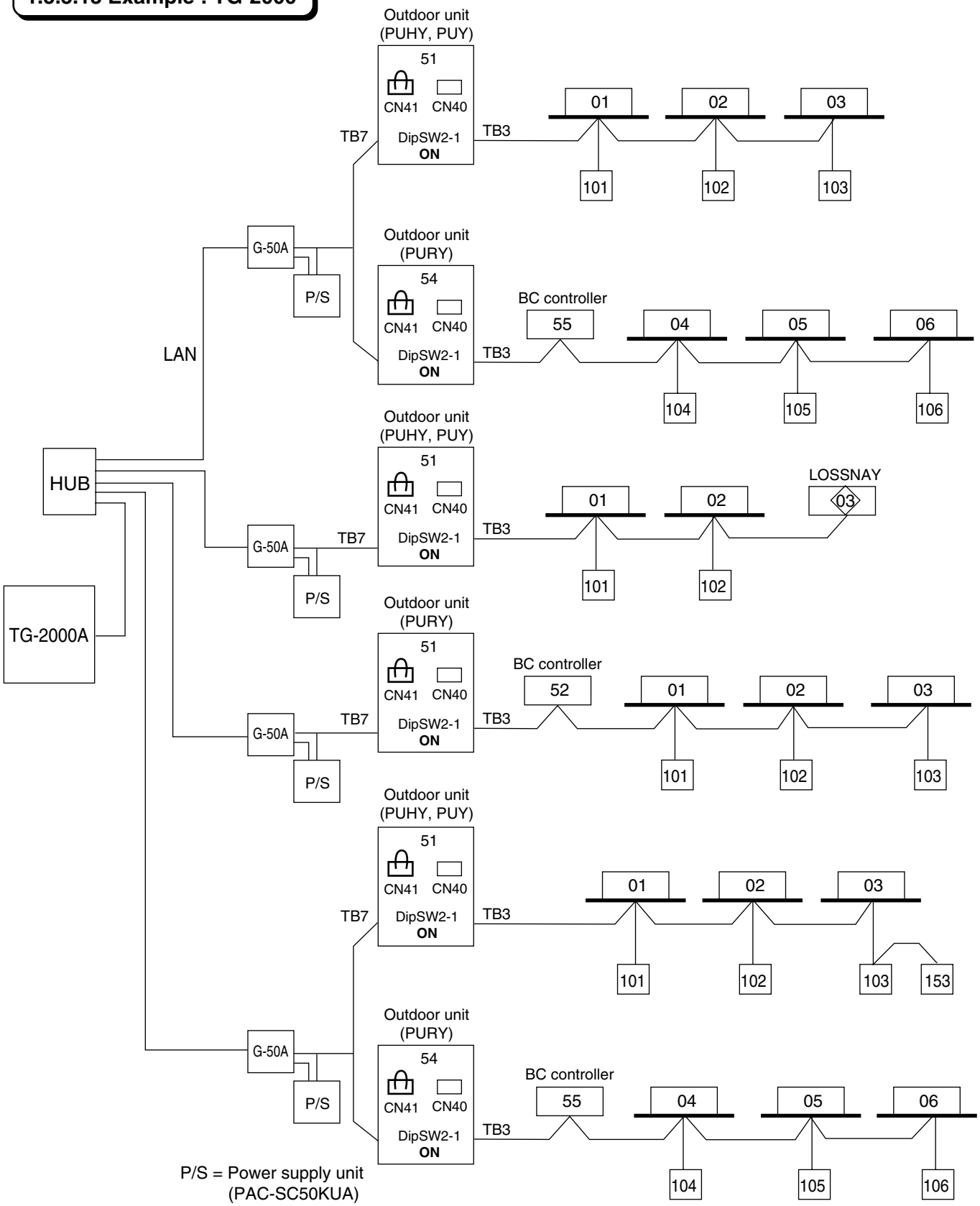


NOTE
- It is necessary to change the connecter to CN40 on the outdoor unit control board (only one outdoor unit) when the group is set between other refrigerant systems.
- It is necessary to set on the remote controller by manual when group sets on the different refrigerant system. Please refer to remote controller installation manual.

1.5.3.12 Example : 2 OU, G-50, MA

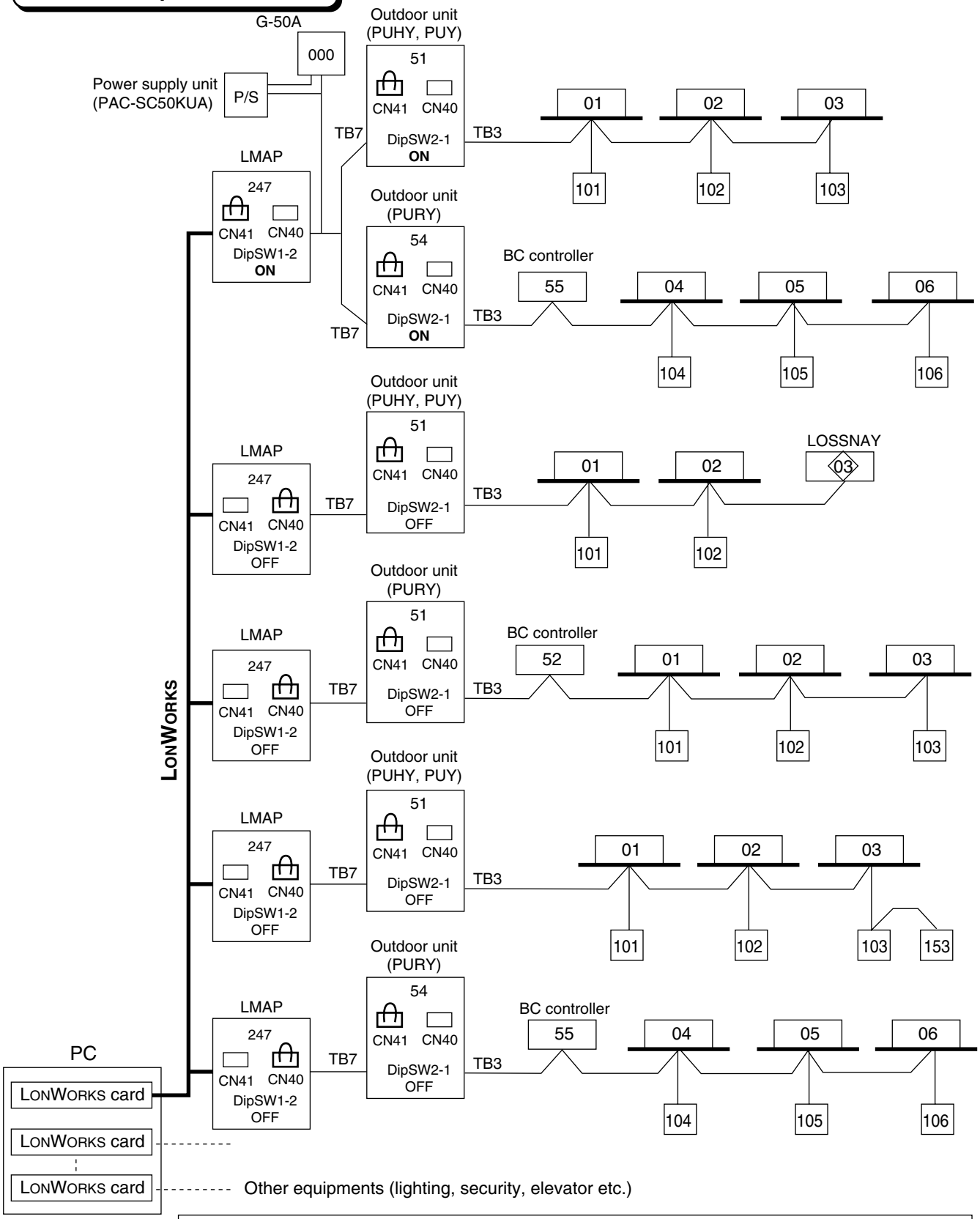


1.5.3.13 Example : TG-2000



NOTE
- G-50A can control maximum 50 indoor units.
- TG-2000A can control maximum 40 G-50As.
- TG-2000A can control 2000 indoor units.

1.5.3.14 Example : LONWORKS



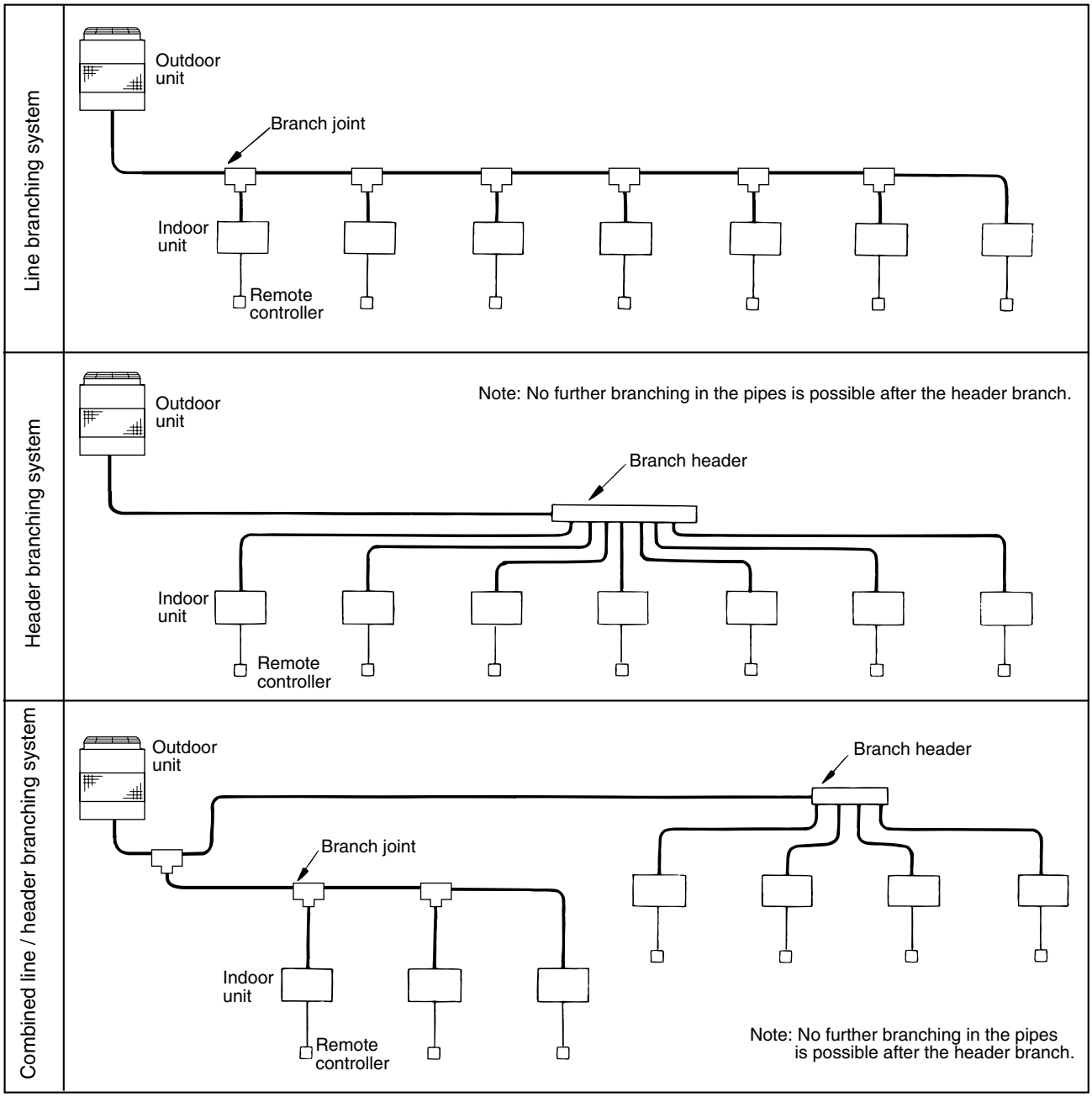
NOTE
- LMAP (LMAP02-E) can control 50 indoor units.
- It is necessary to turn on the DipSW1-2 on the LMAP control board and the DipSW2-1 on the outdoor unit control board with centralized controllers (Power supply unit).
- It is necessary to change the connector to CN40 on the LMAP control board without centralized controllers (Power supply unit).

2. Refrigerant & Piping

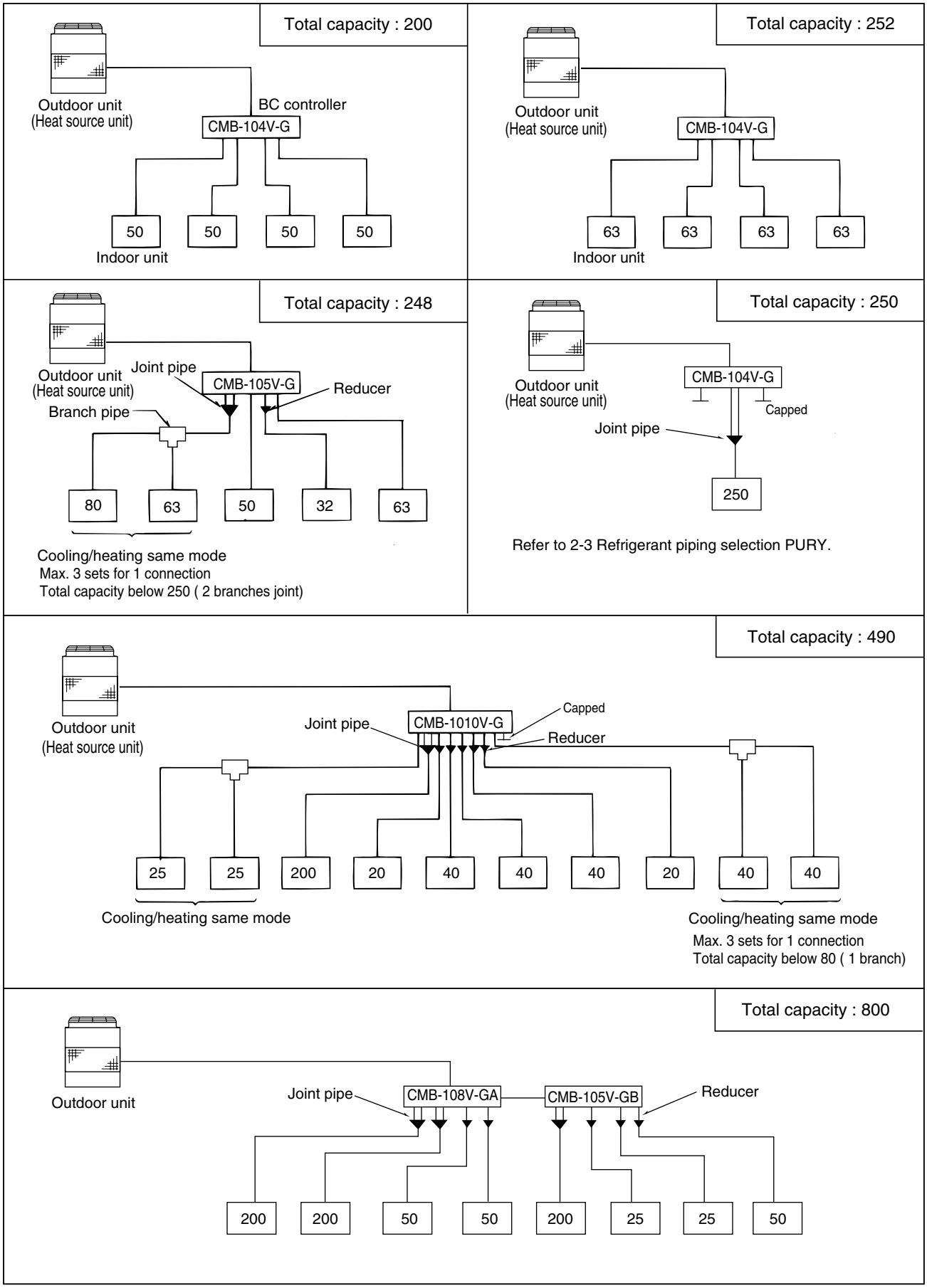
2.1 System examples

Using line branches, header branches and combinations of these branches, a "free piping system" involving minimal restrictions can be configured to give a free hand in indoor and outdoor unit refrigerant piping design.

2.1.1 PUHY,PUY-P-YGM

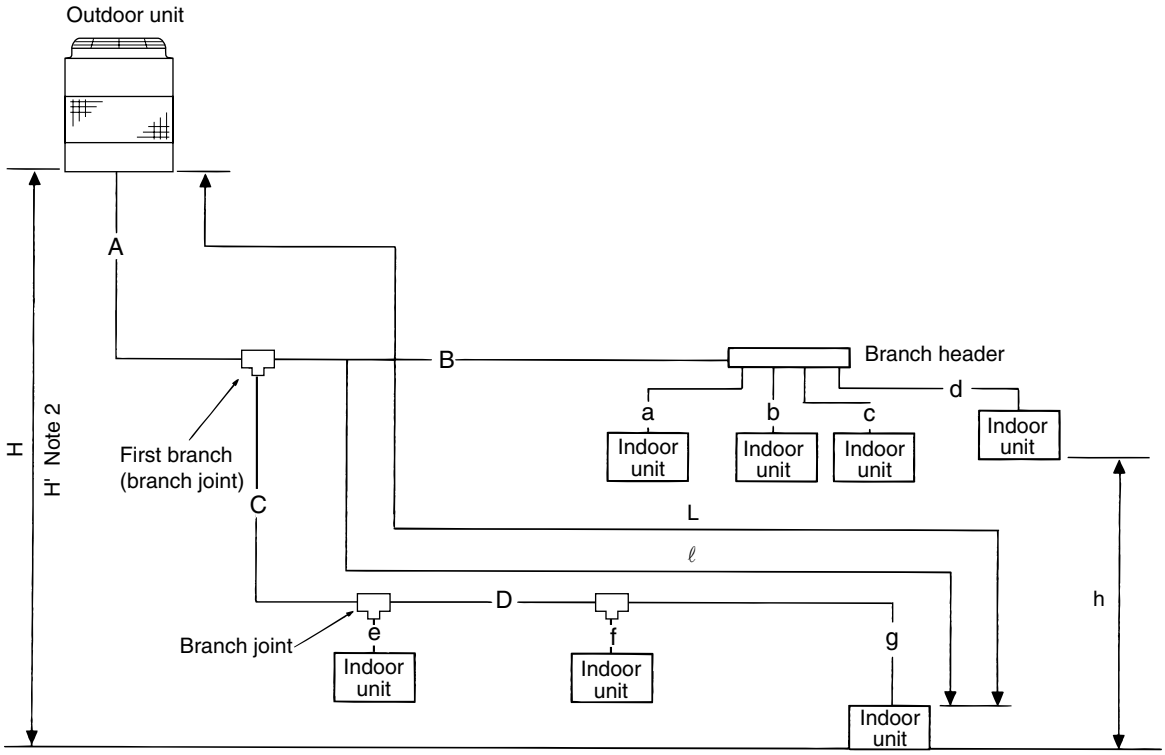


2.1.2 PURY-P-YGM



2.2 Restrictions on refrigerant piping lengths

2.2.1 PUHY-P200,250,300,350,400,450,500,550,600,650YGM PUY-P200,250,300,350YGM



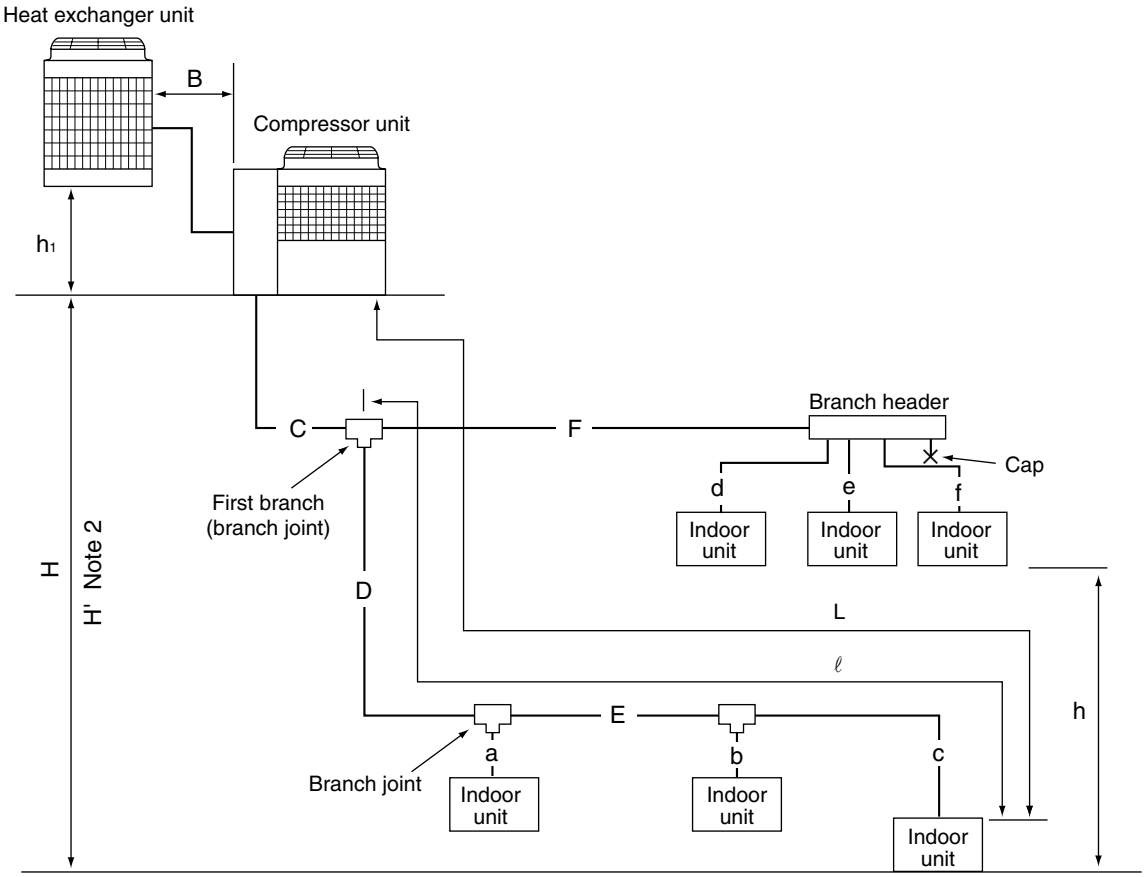
Notes: 1. No further branching in the pipes is possible after the header branch.
2. When cooling operation is performed when the outdoor temp. is 0˚C or lower : H'= 4m or less.
3. Equivalent pipe length (m) : Actual pipe length + A × number of bent.

Table A

Outdoor unit model	A	Outdoor unit model	A
P200	0.35	P450	0.50
P250	0.42	P500	0.50
P300	0.42	P550	0.50
P350	0.47	P600	0.50
P400	0.50	P650	0.50

Item		Pipe section	Allowable length	Equivalent length
Total pipe length		A+B+C+D +a+b+c+d+e+f+g	300m max.	–
Furthest pipe length (L)		A+C+D+g or A+B+d	150m max	175m max.
Furthest pipe length (ℓ) after first branch		C+D+g or B+d	40m max.	40m max.
Btwn. indoor & outdoor units	Outdoor unit installed above	H	50m max.	–
	Outdoor unit installed below	H'	40m max.	–
Btwn. indoor & indoor units		h	15m max.	–

2.2.2 PUHY-P700,750,800YSGM



Notes: 1. Mount the Hex unit on the left and Comp unit on the right. (as seen from the front of the unit)

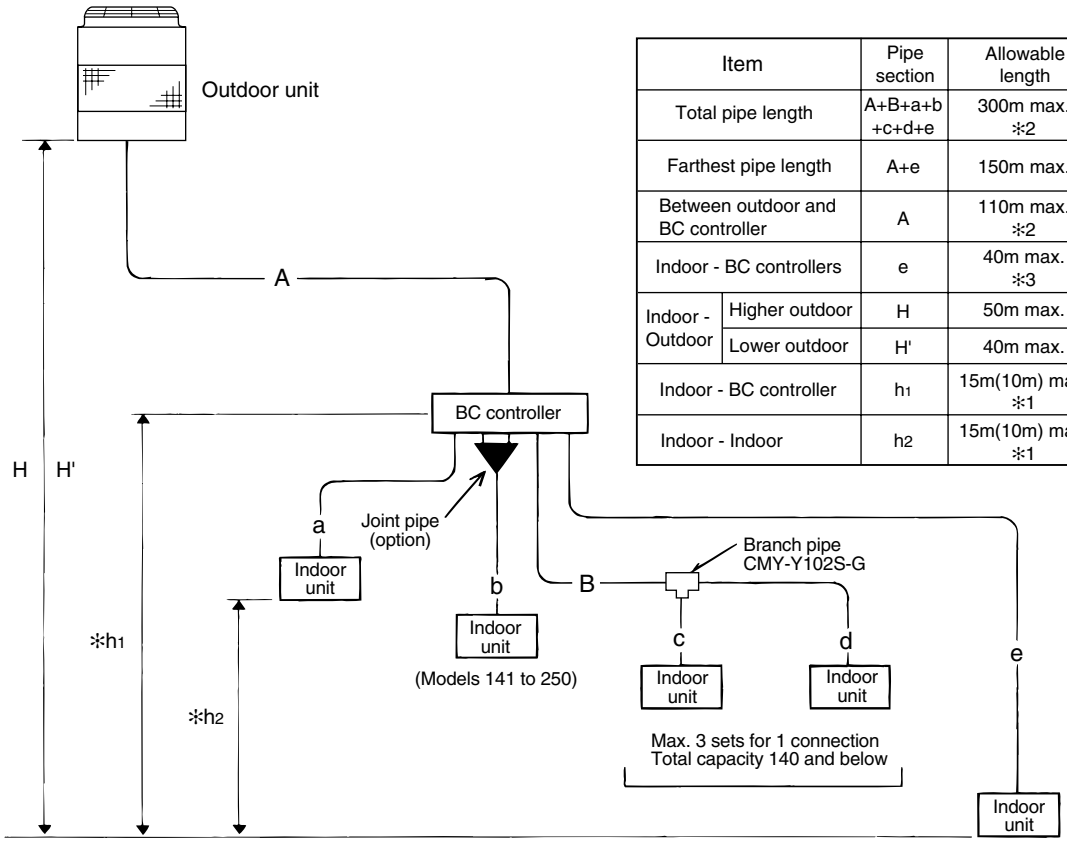
2. When cooling operation is performed when the outdoor temp. is 0˚C or lower : H'= 4m or less.

3. Equivalent pipe length (m) : Actual pipe length + model 700 : 0.70 / model 750 : 0.70 / model 800 : 0.70 × number of bent.

4. No further branching in the pipes is possible after the header branch.

Item		Pipe section	Allowable length	Equivalent length
Total pipe length		B+C+D+E+F +a+b+c+d+e+f	300m max.	–
Furthest pipe length (L)		B+C+D+E+c	150m max	175m
Furthest pipe length (ℓ) after first branch		D+E+c	40m max.	–
Btwn. Hex unit & Comp unit		B	10m max.	12m max.
Btwn. Hex unit & Comp unit		h_1	0.1m max.	–
Btwn. indoor & outdoor units	Outdoor unit installed above	H	50m max.	–
	Outdoor unit installed below	H'	40m max.	–
Btwn. indoor & indoor units		h	15m max.	–

2.2.3 PURY-P-YGM (with 1 BC controller)



Item		Pipe section	Allowable length	Equivalent length
Total pipe length		A+B+a+b +c+d+e	300m max. *2	–
Farthest pipe length		A+e	150m max.	175m max.
Between outdoor and BC controller		A	110m max. *2	110m max. *2
Indoor - BC controllers		e	40m max. *3	40m max. *3
Indoor - Outdoor	Higher outdoor	H	50m max.	–
	Lower outdoor	H'	40m max.	–
Indoor - BC controller		h_1	15m(10m) max. *1	–
Indoor - Indoor		h_2	15m(10m) max. *1	–

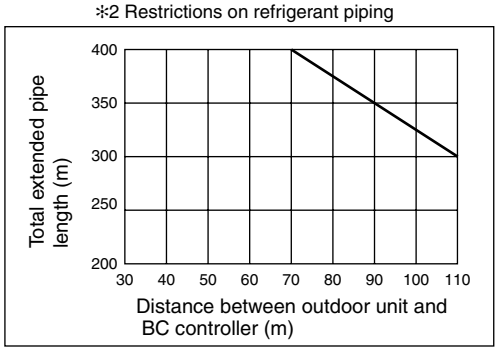
Equivalent pipe length (m) : Actual pipe length + A × number of bent.

Table A

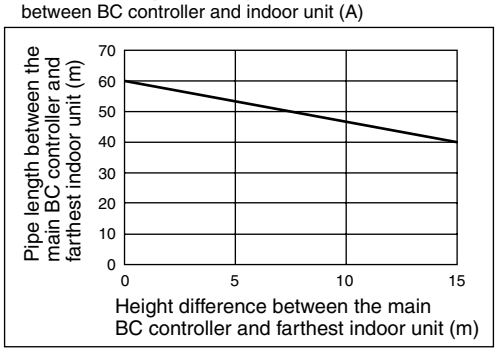
Outdoor unit model	A	Outdoor unit model	A
P200	0.35	P400/P450/P500 P550/P600/P650	0.50
P250/P300	0.42		
P350	0.47		

*1 When connecting indoor units that are P200-type or above, the allowable pipe length between indoor units and the BC controller must be less than 10m.
*2 When the total extended length exceeds 300m, refer to the figure below, restrictions on refrigerant piping.
*3 When the piping length between the BC controller and the farthest indoor unit exceeds 40 m, refer to the figure below for restrictions on refrigerant piping length. (except for P200-type or above indoor units)
*4 When connecting indoor units that are P200-type or above, do not use branch joints or branch headers.
*5 Do not connect P200-type or above indoor units to other indoor units with different capacities at the same branch node.
*6 When connecting two BC controller sub units, include the length of the lines to these units in the allowable and equivalent lengths in the table above.

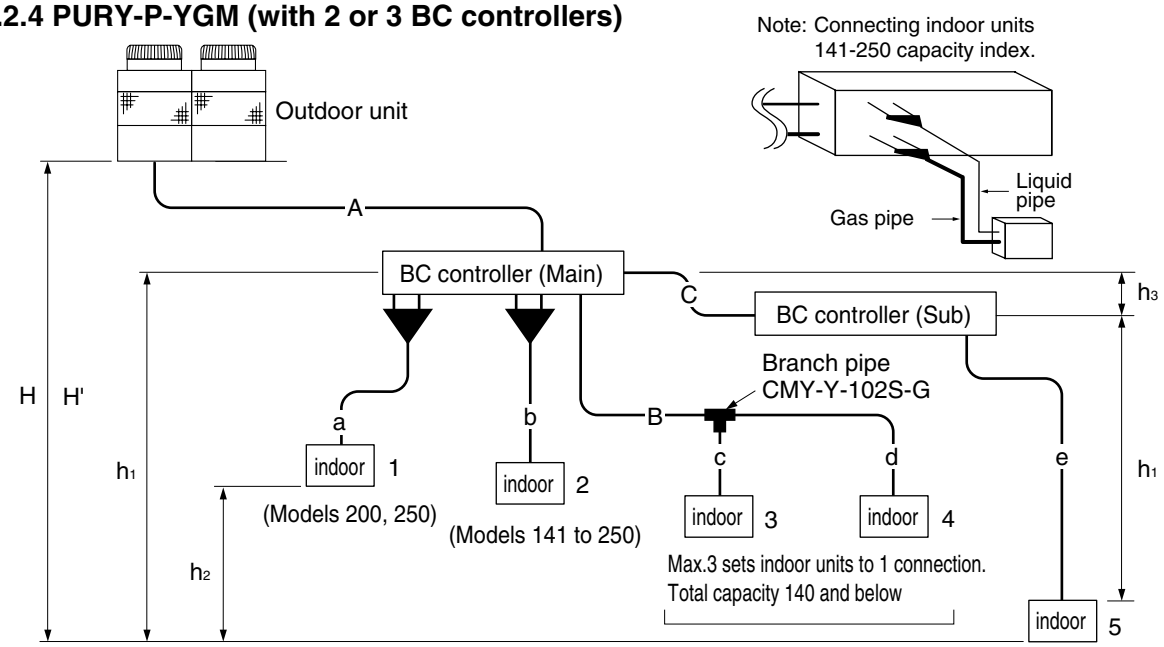
*2 Restrictions on refrigerant piping



*3 Branch pipe length and height difference between BC controller and indoor unit (A)



2.2.4 PURY-P-YGM (with 2 or 3 BC controllers)



Item			Pipe section	Allowable length	Equivalent length
Length	Total pipe length		A+B+C+a+b+c+d+e	300m max. ✻2	–
	Furthest pipe length		A+C+e	150m max.	175m max.
	Outdoor-BC (Main)		A	110m max. ✻2	110m max. ✻2
	BC(Main or Sub)-Indoor		B+d or C+e	40m max. ✻3	40m max. ✻3
Height difference	Indoor -Outdoor	Higher outdoor	H	50m max.	–
		Lower outdoor	H'	40m max.	–
	Indoor-BC (Main, Sub)		h_1	15m (10m) max.	–
	Indoor-Indoor		h_2	15m (10m) max. ✻1	–
	BC (Main)-BC (Sub)		h_3	15m (10m) max. ✻1 ✻6	–

To connect indoor units in a system with branching nodes of more than 16, two to three branch controllers are required, and three pipes are required to connect the BC controller and the BC controller.

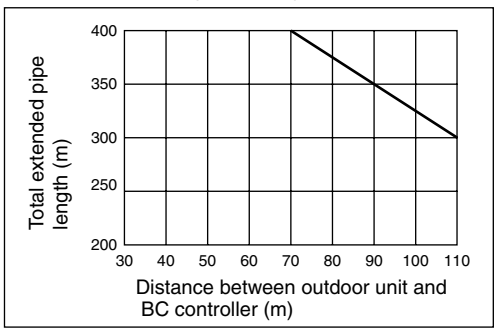
Equivalent pipe length : Allowable pipe length + A × number of bent

Table A

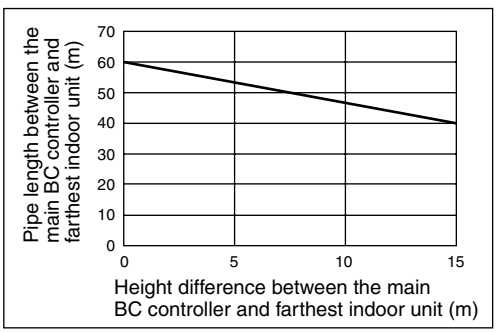
Outdoor unit model	A	Outdoor unit model	A
P200	0.35	P400/P450/P500 P550/P600/P650	0.50
P250/P300	0.42		
P350	0.47		

✻1 When connecting indoor units that are P200-type or above, the allowable pipe length between indoor units and the BC controller must be less than 10m.
✻2 When the total extended length exceeds 300m, refer to the figure below, restrictions on refrigerant piping.
✻3 When the piping length between the BC controller and the farthest indoor unit exceeds 40 m, refer to the figure below for restrictions on refrigerant piping length. (except for P200-type or above indoor units)
✻4 When connecting indoor units that are P200-type or above, do not use branch joints or branch headers.
✻5 Do not connect P200-type or above indoor units to other indoor units with different capacities at the same branch node.
✻6 When connecting two BC controller sub units, include the length of the lines to these units in the allowable and equivalent lengths in the table above.

✻2 Restrictions on refrigerant piping

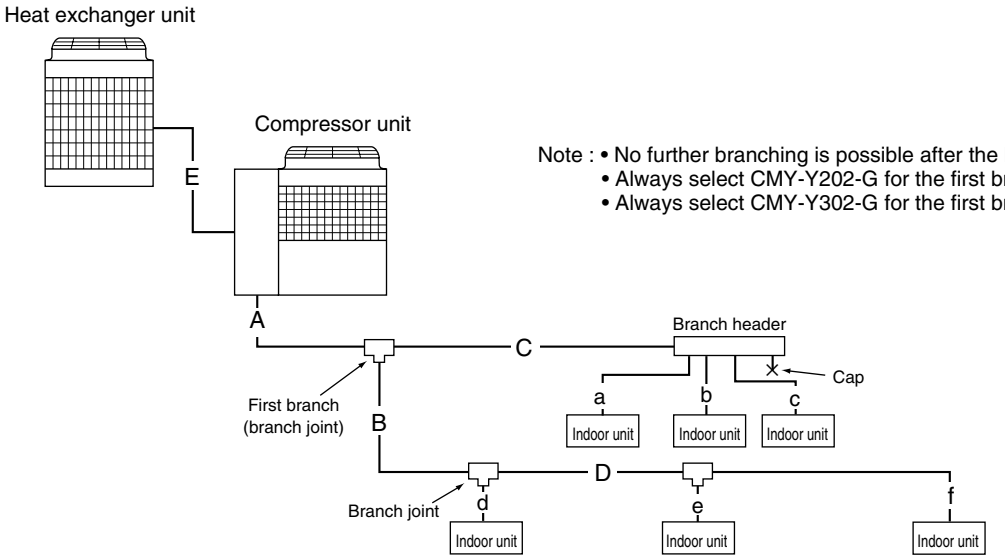


✻3 Branch pipe length and height difference between BC controller and indoor unit (A)



2.3 Refrigerant piping selection

2.3.1 PUHY,PUY-P-YGM



Note : • No further branching is possible after the header branch.
• Always select CMY-Y202-G for the first branch of P450~P650.
• Always select CMY-Y302-G for the first branch of P700, 750, 800.

(1) Outdoor unit - 1st branch (Pipe A)

Outdoor unit model	Liquid pipe	Gas pipe
P200	ø 9.52	ø 19.05
P250	*1 ø 9.52	ø 22.2
P300	*2 ø 9.52	ø 22.2
P350	ø 12.7	ø 28.58
P400	ø 12.7	ø 28.58
P450	ø 15.88	ø 28.58
P500	ø 15.88	ø 28.58
P550	ø 15.88	ø 28.58
P600	ø 15.88	ø 28.58
P650	ø 15.88	ø 28.58
P700	ø 19.05	ø 34.93
P750	ø 19.05	ø 34.93
P800	ø 19.05	ø 34.93

*1 ø 12.7 for over 90m
*2 ø 12.7 for over 40m

(2) Branch joint / Header

Type of branch pipe	Total capacity of indoor units	Branch pipe model
Joint	~ 200	CMY-Y102S-G
	201 ~ 400	CMY-Y102L-G
	401 ~ 650	CMY-Y202-G
	The 1st branch of P450~P650	
	651 or above	CMY-Y302-G
	The 1st branch of P700, 750, 800	
Header	For 4 branches (~200)	CMY-Y104-G
	For 8 branches (~400)	CMY-Y108-G
	For 10 branches (~650)	CMY-Y1010-G

(3) Branch - Branch (Pipe B,C,D)

Total capacity of indoor units	Liquid pipe	Gas pipe
~ 140	ø 9.52	ø 15.88
141 ~ 200	ø 9.52	ø 19.05
201 ~ 300	ø 9.52	ø 22.2
301 ~ 400	ø 12.7	ø 28.58
401 ~ 650	ø 15.88	ø 28.58
651 ~ 800	ø 19.05	ø 34.93
801 ~	ø 19.05	ø 41.28

* Please choose the pipe thickness according to your country standard referring to above chart.

(4) Branch - Indoor unit (Pipe a, b, c, d, e, f)

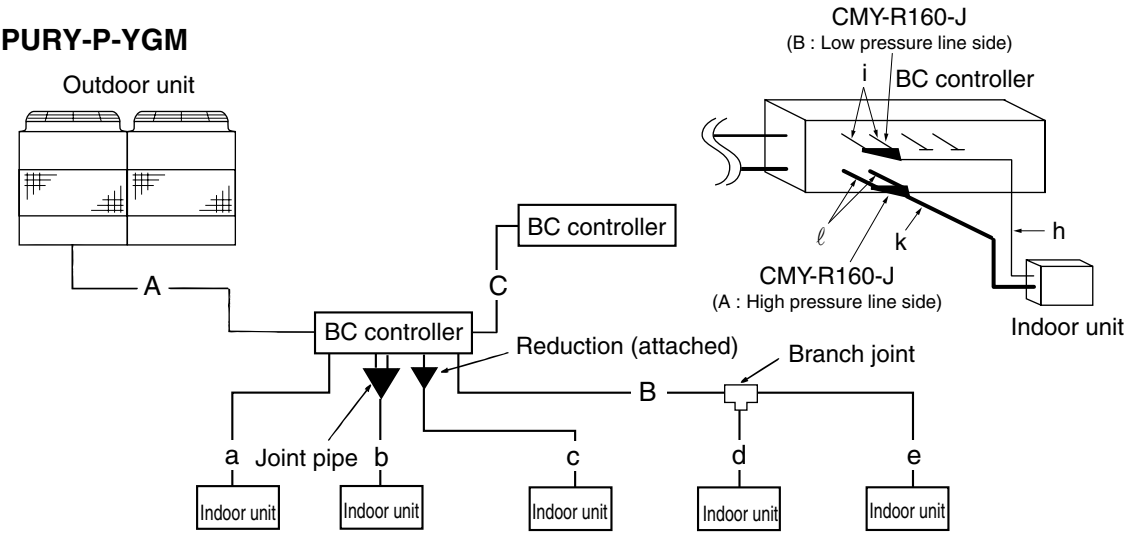
Indoor unit model	Liquid pipe	Gas pipe
P20, P25, P32, P40, P50	ø 6.35	ø 12.7
P63, P71, P80 P100, P125, P140	ø9.52	ø 15.88
P200	ø 9.52	ø 19.05
P250	ø 9.52	ø 22.2

• Indoor unit capacities
The capacity of an indoor unit is the same as the number used for its type identification.
Examples:
PEFY-P63VM → Capacity = 63

(5) Comp unit - Hex unit (Pipe E)

Outdoor unit model	Liquid pipe	Gas pipe
P700	ø12.7	ø28.58
P750	ø12.7	ø28.58
P800	ø12.7	ø28.58

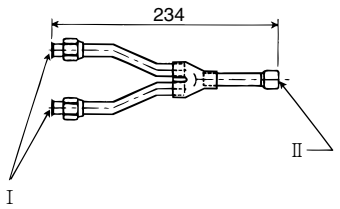
2.3.2 PURY-P-YGM



(1) Outdoor unit - BC controller (Pipe A)

Outdoor unit model	High press. side	Low press. side
P200	ø 15.88	ø 19.05
P250	ø 19.05	ø 22.2
P300	ø 19.05	ø 22.2
P350	ø 19.05	ø 28.58
P400	ø 22.2	ø 28.58
P450	ø 22.2	ø 28.58
P500	ø 22.2	ø 28.58
P550	ø 28.58	ø 28.58
P600	ø 28.58	ø 28.58
P650	ø 28.58	ø 28.58

• Joint pipe CMY-R160-J



	I	II
A : High pressure line side : 3/8F (Flare)	ø9.52 ID	
B : Low pressure line side : 5/8F (Flare)	ø19.05 ID	

(2) Branch joint

Total capacity of indoor units	Branch joint
~ 140	CMY-Y102S-G

(3) BC controller - Branch (Pipe B)

Total capacity of indoor units	Liquid pipe	Gas pipe
~ 140	ø 9.52	ø 15.88

(4) BC controller - BC controller (Pipe C)

Total capacity of indoor units	High press gas pipe	Low press gas pipe	Liquid pipe
~ 200	ø 15.88	ø 19.05	ø 9.52
201 ~ 300	ø 19.05	ø 22.2	ø 9.52
301 ~ 350	ø 19.05	ø 28.58	ø 12.7

(5) Branch or BC controller - Indoor unit (Pipe a,b,c,d,e)

Indoor unit model	Liquid pipe	Gas pipe
P20, P25 P32, P40, P50	ø 6.35	ø 12.7
P63, P71, P80 P100, P125, P140	ø 9.52	ø 15.88

Indoor unit model	Liquid pipe		Gas pipe	
	h	i	k	ℓ
P200	ø 9.52	ø 9.52	ø 19.05	ø 15.88
P250	ø 9.52	ø 9.52	ø 22.2	ø 15.88

• The thickness of pipe is according to the Japanese standard.

⁎ Please choose the pipe thickness according to your country standard referring to above chart.

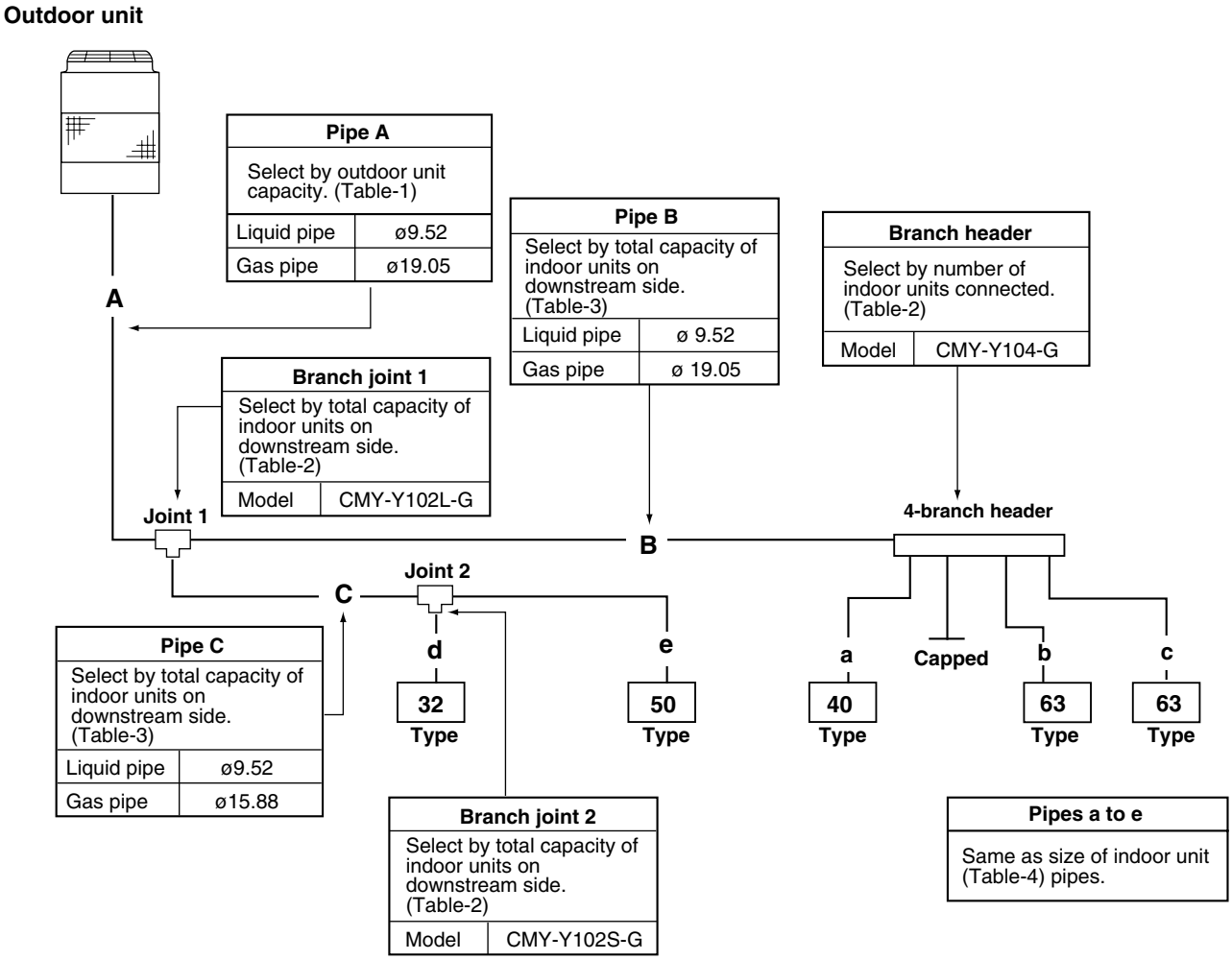
• Indoor unit capacities

The capacity of an indoor unit is the same as the number used for its type identification.

Examples:PEFY-P63VM → Capacity = 63

2.4 Example of refrigerant piping selection

2.4.1 PUHY-P200YGM



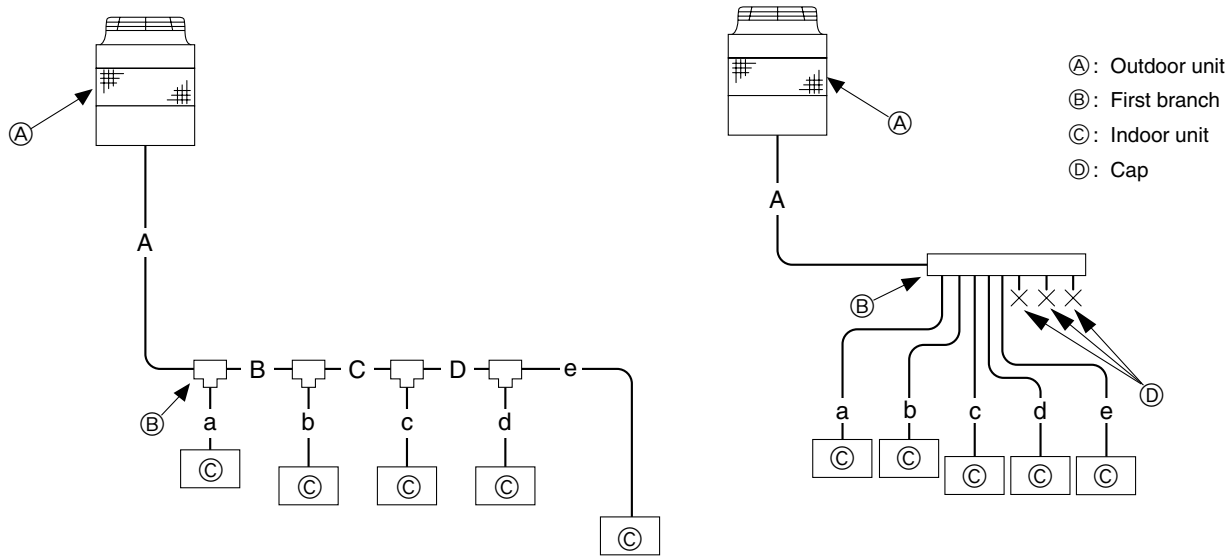
(1) Selection of branch pipe kit

Branch area	Branch pipe kit selection method	Branch pipe kit model
Joint 1	32 + 40 + 50 + 63 + 63 = 248 (201 or above)	CMY-Y102L-G
Joint 2	32 + 50 = 82 (200 or below)	CMY-Y102S-G
Header	For 4 branches with 8 HP outdoor unit	CMY-Y104-G

(2) Selection of pipe size

Pipe area	Refrigerant pipe selection method	Liquid pipe size	Gas pipe size
A	Same as size of outdoor unit's refrigerant pipe	ø9.52	ø19.05
B	40 + 63 + 63 = 166 (141~ 200)	ø9.52	ø19.05
C	32 + 50 = 82 (~ 140)	ø9.52	ø15.88
a	Same as size of indoor unit's refrigerant pipe	ø6.35	ø12.7
b	〃	ø9.52	ø15.88
c	〃	ø9.52	ø15.88
d	〃	ø6.35	ø12.7
e	〃	ø6.35	ø12.7

2.4.2 PUHY-P-YGM



A (mm)

Ⓐ Outdoor model	Ⓑ Liquid pipe	Ⓒ Gas pipe
P200	ø9.52	ø19.05
P250	*1 ø9.52	ø22.2
P300	*2 ø9.52	ø22.2
P350	ø12.7	ø28.58
P400	ø12.7	ø28.58
P450	ø15.88	ø28.58
P500	ø15.88	ø28.58
P550	ø15.88	ø28.58
P600	ø15.88	ø28.58
P650	ø15.88	ø28.58

*1 ø12.7 for over 90m
*2 ø12.7 for over 40m

Ⓕ Downstream unit model total	Ⓖ Branch kit model
~ 200	CMY-Y102S-G
201 ~ 400	CMY-Y102L-G
401 ~ 650 Ⓗ The 1st branch of P450 ~ P650	CMY-Y202-G
651 ~ Ⓘ The 1st branch of P700, P750, P800	CMY-Y302-G

Ⓙ 4-Branching header (Downstream unit model total ≦ 200)	Ⓚ 8-Branching header (Downstream unit model total ≦ 400)	Ⓛ 10-Branching header Downstream unit model total ≦ 650)
CMY-Y104-G	CMY-Y108-G	CMY-Y1010-G

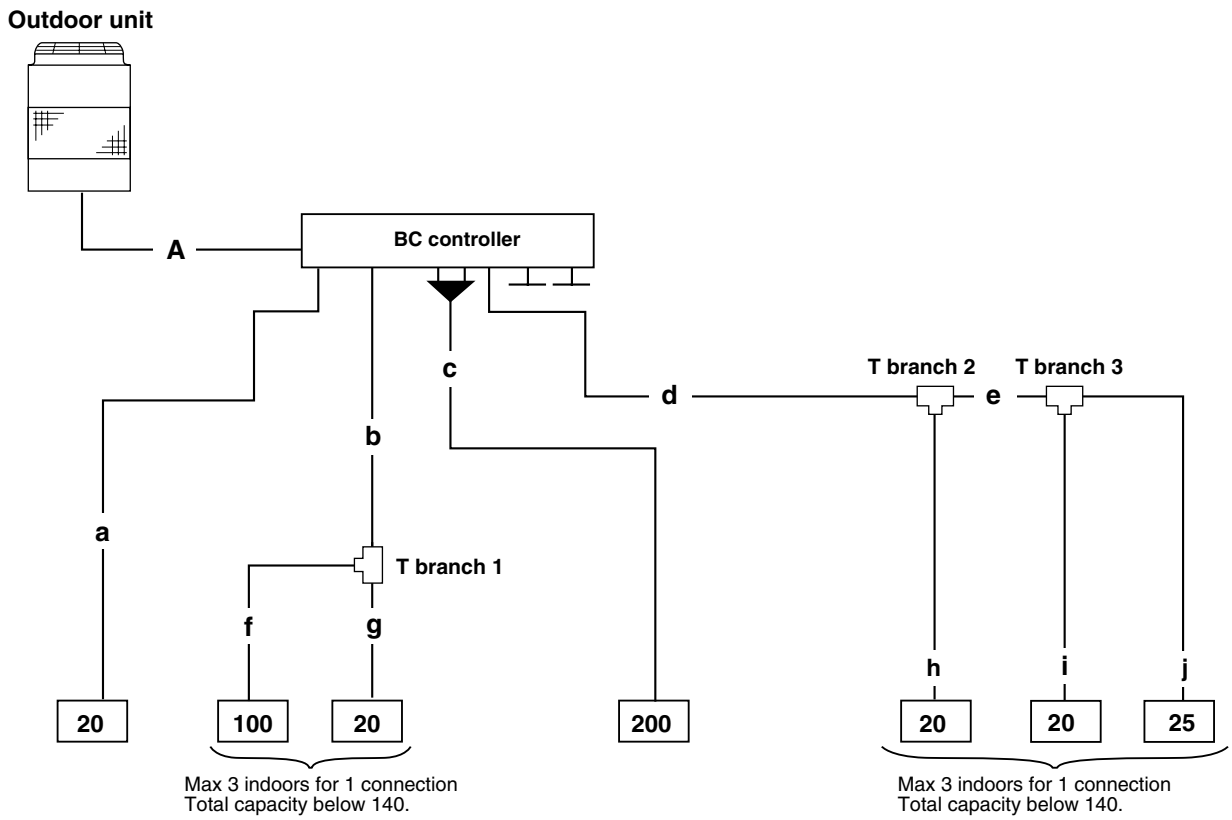
B, C, D (mm)

Ⓓ Total capacity of indoor units	Ⓑ Liquid pipe	Ⓒ Gas pipe
~ 140	ø9.52	ø15.88
141 ~ 200	ø9.52	ø19.05
201 ~ 300	ø9.52	ø22.2
301 ~ 400	ø12.7	ø28.58
401 ~ 650	ø15.88	ø28.58
651 ~ 800	ø19.05	ø34.93
801 ~	ø19.05	ø41.28

a, b, c, d, e (mm)

Ⓔ Model number	Ⓑ Liquid pipe	Ⓒ Gas pipe
20,25,32,40,50	ø6.35	ø12.7
63,71,80,100,125,140	ø9.52	ø15.88
200	ø9.52	ø19.05
250	ø9.52	ø22.2

2.4.3 PURY-P400YGM



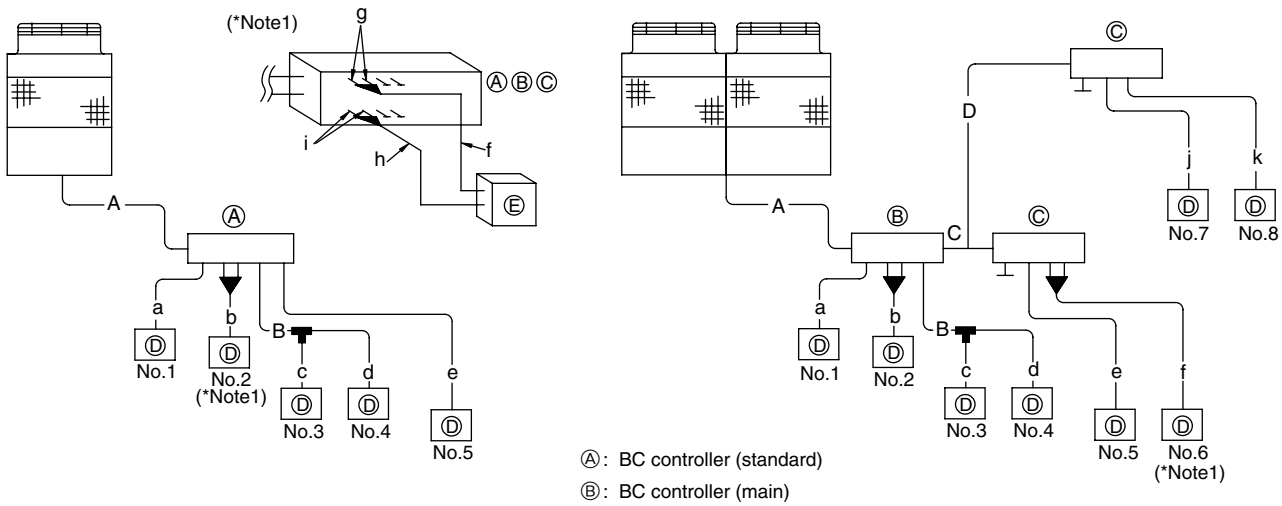
(1) Selection of branch pipe kit

Branch	Branch pipe kit selection method	Branch pipe kit model
Joint	–	CMY-R160-J
T branch 1	Capacity Index = 100 + 20 = 120	CMY-Y102S-G
T branch 2	Capacity Index = 20 + 20 + 25 = 65	CMY-Y102S-G
T branch 3	Capacity Index = 20 + 25 = 45	CMY-Y102S-G

(2) Selection of pipe size

Pipe area	Refrigerant pipe selection method	High pressure	Low pressure
A	Outdoor unit pipe	ø22.2	ø28.58
a	Capacity Index = 20	ø6.35	ø12.7
b	Capacity Index = 120 (100+20)	ø9.52	ø15.88
c	Capacity Index = 200	ø9.52	ø19.05
d	Capacity Index = 65 (20+20+25)	ø9.52	ø15.88
e	Capacity Index = 45 (20+25)	ø9.52	ø15.88
f	Capacity Index = 100	ø9.52	ø15.88
g	Capacity Index = 20	ø6.35	ø12.7
h	Capacity Index = 20	ø6.35	ø12.7
i	Capacity Index = 20	ø6.35	ø12.7
j	Capacity Index = 25	ø6.35	ø12.7

2.4.4 PURY-P-YGM



Ⓐ: BC controller (standard)
Ⓑ: BC controller (main)
Ⓒ: BC controller (sub)
Ⓓ: indoor unit (20 ~ 140)
Ⓔ: indoor unit (200, 250)

A (mm)

A Outdoor model	B High press. Side	C Low press. Side
P200	ø15.88	ø19.05
P250	ø19.05	ø22.2
P300	ø19.05	ø22.2
P350	ø19.05	ø28.58
P400	ø22.2	ø28.58
P450	ø22.2	ø28.58
P500	ø22.2	ø28.58
P550	ø28.58	ø28.58
P600	ø28.58	ø28.58
P650	ø28.58	ø28.58

B (mm)

D Total capacity of indoor units	E Liquid line	F Gas line
~ 140	ø9.52	ø15.88
141 ~ 200	ø9.52	ø19.05

C, D (mm)

	G High press. gas pipe	H Low press. gas pipe	I Liquid pipe
~ 200	ø15.88	ø19.05	ø9.52
201 ~ 300	ø19.05	ø22.2	ø9.52
301 ~ 350	ø19.05	ø28.58	ø12.7

a, b, c, d, e, j, k (mm)

J Model number	E Liquid line	F Gas line
20,25,32,40,50	ø6.35	ø12.7
63,71,80,100,125,140	ø9.52	ø15.88
200	ø9.52	ø19.05
250	ø9.52	ø22.2

f, g, h, i (mm)

J Model number	E Liquid line		F Gas line	
	f	g	h	i
200	ø9.52	ø9.52	ø19.05	ø15.88
250	ø9.52	ø9.52	ø22.2	ø15.88

2.5 Calculation of additional refrigerant charge

2.5.1 PUHY,PUY-P-YGM

(1) Original charge of refrigerant and the maximum total charge.

At factory shipment, refrigerant are charged in the outdoor unit as shown at Table2.5.1-1 & 2.5.1-2. When extending the piping in the field, additional charge of refrigerant is needed. Yet, the maximum total charge in the air conditioner system should not be exceeded. The maximum additional charge varies on models, shown as at Table2.5.1-1 & 2.5.1-2.

Table 2.5.1-1

PUHY-P-YGM		P200	P250,300,350	P400	P450,500,550, 600,650	P700,750,800
Original charge	A (kg)	7.0	9.5	13.0	22.0	27.0
Maximum total charge	B (kg)	40.0	40.0	40.0	67.0	73.0
Maximum additional charge	C (kg)	33.0	30.5	27.0	45.0	46.0

Table 2.5.1-2

PUY-P-YGM		P200	P250,300,350
Original charge	A (kg)	7.0	9.5
Maximum total charge	B (kg)	40.0	40.0
Maximum additional charge	C (kg)	30.0	30.5

(2) Calculate the additional charge for the air conditioner system in the field.

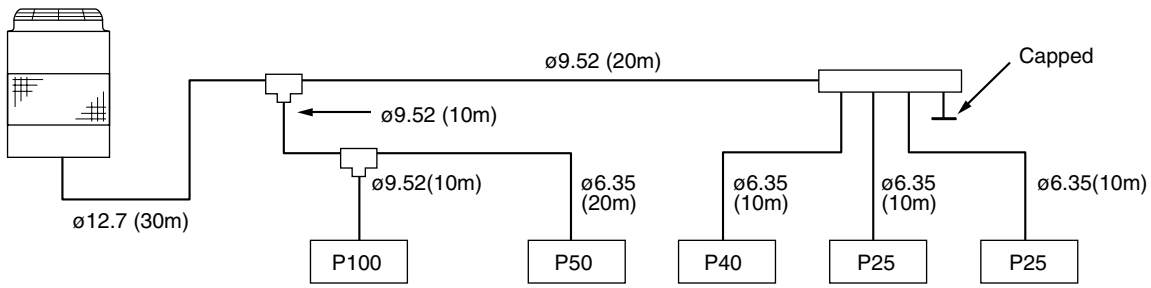
The additional charge (F kg) is calculated as follows. F should be round up to 0.1 digital, like 10.52 → 10.6 kg. Yet, if F results bigger than C, the additional charge is the maximum additional charge C.

F (kg) =(0.29xLc)+(0.2xLd)+(0.12xLe)+(0.06xLf)+(0.024xLg)+ D

Where Lc(m) : Length of liquid pipe sized ø19.05
Ld(m) : Length of liquid pipe sized ø15.88
Le(m) : Length of liquid pipe sized ø12.7
Lf (m) : Length of liquid pipe sized ø9.52
Lg(m) : Length of liquid pipe sized ø6.35
D(kg) : Additional charge of refrigerant required by the total capacity of indoor units in the refrigerant system.

Total capacity of indoor units connected	~160	161~330	331~480	481~630	631~710	711~890	891~1070
D (kg)	1.5	2.0	2.5	3.0	4.0	5.0	6.0

Example: PUHY-P350YGM-A



This calculation concerns only the liquid pipes.

Le(ø12.7) : 30m
Lf (ø9.52) : 10m + 20m + 10m = 40m
Lg(ø6.35) : 20m + 10m + 10m + 10m = 50m

Total capacity of indoor units connected:

50 + 50 + 40 + 25 + 25 = 190

Therefore, D = 2.0kg

Calculation of additional amount :

F (kg) = (0.12 × 30) + (0.06 × 40) + (0.024 × 50) + 2.0 = 9.2 kg

F<C=30.5kg

Therefore, F=9.2kg

2.5.2 PURY-P-YGM

(1) Original charge of refrigerant and the maximum total charge.

At factory shipment, refrigerant are charged in the outdoor unit as shown at Table2.5.2-1. When extending the piping in the field, additional charge of refrigerant is needed. Yet, the maximum total charge in the air conditioner system should not be exceeded. The maximum additional charge varies on models, shown as at Table2.5.2-1

Table 2.5.2-1

PURY-P-YGM	P200	P250,300,350	P400	P450	P500,550,600,650
Original charge A (kg)	10.5	13.0	13.0	16.5	16.5
Maximum total charge B (kg)	51.7	51.7	64.0	89.1	89.1
Maximum additional charge C (kg)	41.2	38.7	51.0	72.6	72.6

(2) Calculate the additional charge for the air conditioner system in the field.

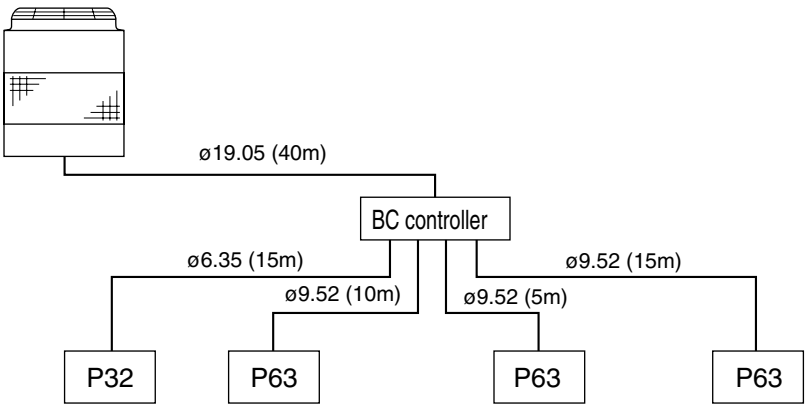
The additional charge (F kg) is calculated as follows. F should be round up to 0.1 digital, like 10.52 → 10.6 kg.

F (kg) =(0.36xLa)+(0.23xLb)+(0.16xLc)+(0.11xLd)+(0.12xLe) +(0.06xLf) +(0.024xLg)+ D + E

Where
- La(m) : Length of high pressure pipe sized ø28.58
- Lb(m) : Length of high pressure pipe sized ø22.2
- Lc(m) : Length of high pressure pipe sized ø19.05
- Ld(m) : Length of high pressure pipe sized ø15.88
- Le(m) : Length of liquid pipe sized ø12.7
- Lf (m) : Length of liquid pipe sized ø9.52
- Lg(m) : Length of liquid pipe sized ø6.35
- D(kg) : Additional charge of refrigerant required by the total capacity of indoor units in the refrigerant system.
- E(kg) : Additional charge of refrigerant required by the BC controller (Sub).

Total capacity of indoor units connected	~160	161~330	331~480	481~630	631~710	711~890	891~1070
D (kg)	1.5	2.0	2.5	3.0	4.0	5.0	6.0
E (kg)	One BC controller (Sub), E=1.0kg; More than 1 BC controller (Sub), E=2.0kg						

Example: PURY-P350YGM-A



This calculation concerns only the high pressure (liquid) pipes.

Lc(ø19.05) : 40m
Lf (ø9.52) : 10m + 15m + 10m = 30m
Lg(ø6.35) : 15m

Total capacity of indoor units connected:

32 + 63 + 63 + 63 = 221

Therefore, D = 2.0kg

Calculation of additional amount :

F (kg) = (0.16 × 40) + (0.06 × 30) + (0.024 × 15) + 2.0 = 10.56 kg ≒10.6 kg

F<C=38.7kg

Therefore, F=10.6kg

2.6 Electric characteristics

2.6.1 Indoor unit

Symbols: MCA : Max. Circuit Amps (=1.25×FLA) FLA : Full Load Amps
IFM : Indoor Fan Motor Output : Fan motor rated output

Model		Units		Power supply	IFM	
		Volts / Hz	Voltage range	MCA(A)	Output(kW)	FLA(A)
PMFY-P-VBM-E	20	220-240V / 50Hz 220V / 60Hz	Max.: 264V Min.: 198V	0.25	0.028	0.20
	25·32			0.26	0.028	0.21
	40			0.33	0.028	0.26
PLFY-P-VAM-E	32			0.74	0.070	0.59
	40·50			0.85	0.070	0.68
	63			0.98	0.070	0.78
	80			1.08	0.070	0.86
	100			1.79	0.120	1.43
	125			2.05	0.120	1.64
PLFY-P-VLMD-E	20·25	220-240V / 50Hz 220-230V / 60Hz		0.45/0.46	0.015	0.36/0.37
	40			0.50/0.53	0.015	0.40/0.42
	50			0.51/0.54	0.020	0.41/0.43
	63			0.61/0.64	0.020	0.49/0.51
	80			0.90/0.93	0.020	0.72/0.74
	100			0.94/1.10	0.030	0.75/0.88
	125			1.69/1.69	0.078 × 2	1.35/1.35
PEFY-P-VML-E	20·25	220-240V / 50Hz 220-240V / 60Hz		0.30/0.35	0.023	0.24/0.28
	32			0.40/0.53	0.032	0.32/0.42
PEFY-P-VMH-E	40·50			1.21/1.61	0.08	0.97/1.29
	63			1.49/1.95	0.12	1.19/1.56
	71			1.58/2.18	0.14	1.26/1.74
	80			1.85/2.40	0.18	1.48/1.92
	100·125			3.03/3.93	0.26	2.42/3.14
	140			3.10/3.98	0.26	2.48/3.18
	200	380-415V / 50Hz 380-415V / 60Hz	Max.: 456V Min.: 342V	2.03/2.33	0.54	1.62/1.86
	250			2.50/2.88	0.87	2.00/2.30
PEFY-P-VMM-E	20·25	220-240V / 50Hz	Max.: 264V Min.: 198V	0.91	0.15	0.73
	32			1.01	0.17	0.81
	40			1.15	0.19	0.92
	50			1.23	0.20	0.98
	63			1.34	0.22	1.07
	71·80			1.44	0.25	1.15
	100			1.68	0.29	1.34
	125			2.38	0.40	1.90
	140			2.44	0.42	1.95
PEFY-P-VMH-E-F	80	220-240V / 50Hz 220-240V / 60Hz	Max.: 264V Min.: 198V	0.92/1.15	0.09	0.73/0.92
	140			1.58/1.84	0.14	1.26/1.47

Model		Units		Power supply	IFM	
		Volts / Hz	Voltage range	MCA(A)	Output(kW)	FLA(A)
PDFY-P-VM-E	20·25·32	220-240V / 50Hz 220V / 60Hz	Max.: 264V Min.: 198V	0.66/0.73	0.075	0.53/0.58
	40·50			0.75/0.89	0.075	0.60/0.71
	63			0.85/1.03	0.078	0.68/0.82
	71			0.90/1.10	0.078	0.72/0.88
	80			1.03/1.26	0.078	0.82/1.01
	100			1.60-1.68/1.70	0.140	1.28-1.34/1.36
	125			1.94-2.04/2.30	0.190	1.55-1.63/1.84 (50/60Hz)
PKFY-P-VAM-E	20·25			0.25	0.017	0.20
PKFY-P-VGM-E	32·40·50			0.40	0.030	0.32
PCFY-P-VGM-E	40			0.58	0.054	0.46
	63			0.75	0.070	0.60
	100			0.91	0.090	0.73
	125			1.38	0.150	1.10
PFFY-P-VLEM-E	20·25	220-240V / 50Hz	Max.: 264V Min.: 198V	0.24 / 0.31	0.020	0.19 / 0.25
	32			0.36 / 0.38	0.030	0.29 / 0.30
	40			0.40 / 0.41	0.035	0.32 / 0.33
	50			0.50 / 0.51	0.035	0.40 / 0.41
	63			0.58 / 0.59	0.045	0.46 / 0.47
PFFY-P-VLRM-E	20·25			0.24 / 0.31	0.020	0.19 / 0.25
	32			0.36 / 0.38	0.030	0.29 / 0.30
	40			0.40 / 0.41	0.035	0.32 / 0.33
	50			0.50 / 0.51	0.035	0.40 / 0.41
	63			0.58 / 0.59	0.045	0.46 / 0.47
GUF-RD(H)3	50			1.85	0.081 × 2	1.48
	100			3.49	0.16 × 2	2.79

2.6.2 Outdoor unit (Cooling)

Refrigerant type : R410A

Symbols: MCA : Max.Circuit Amps
SC : Starting Current
RLA : Rated Load Amps

Model	Units			Power supply	Compressor		Fan	RLA(A)
	Hz	Volts	Voltage range	MCA(A)	Output(kW)	SC(A)	Output(kW)	
PU(H)Y-P200YGM-A	50 / 60	380	Max.: 456V Min.: 342V	16.01	4.7	10	0.38	10.3
		400						9.8
		415						9.4
PU(H)Y-P250YGM-A		380		18.59	6.7	8	0.38	13
		400						12.3
		415						11.9
PU(H)Y-P300YGM-A		380		23.02	8	8	0.38	16.1
		400						15.3
		415						14.7
PU(H)Y-P350YGM-A		380		27.46	9.6	8	0.38	19.2
		400						18.2
		415						17.6
PUHY-P400YGM-A		380		32.32	9.7	8	0.64	22.6
		400						21.5
		415						20.7
PUHY-P450YGM-A		380		32.75	6.8+5.3	92.5 85.5	0.38 × 2	22.9
		400						21.8
		415						21
PUHY-P500YGM-A		380		37.61	8.2+5.3	92.5 85.5	0.38 × 2	26.3
		400						25
		415						24
PUHY-P550YGM-A		380		41.18	9.3+5.3	92.5 85.5	0.38 × 2	28.8
		400						27.3
		415						26.4
PUHY-P600YGM-A		380		42.33	10.1+5.3	92.5 85.5	0.38 × 2	29.6
		400						28.2
		415						27.1
PUHY-P650YGM-A		380		47.33	10.9+5.3	92.5 85.5	0.38 × 2	33.1
		400						31.5
		415						30.3
PUHY-P700YSGM-A		380		52.33	8.6+8.6	15	0.64 × 2	36.6
		400						34.8
		415						33.5
PUHY-P750YSGM-A		380		60.06	9.4+9.4	15	0.64 × 2	42
		400						39.9
		415						38.4
PUHY-P800YSGM-A		380		64.49	10.1+10.1	15	0.64 × 2	45.1
		400						42.9
		415						41.3
PURY-P200YGM-A		380		16.01	4.7	10	0.38	10.3
		400						9.8
		415						9.4
PURY-P250YGM-A		380		18.59	6.7	8	0.38	13
		400						12.3
		415						11.9
PURY-P300YGM-A		380		23.02	8	8	0.38	16.1
		400						15.3
		415						14.7
PURY-P350YGM-A		380		27.46	9.6	8	0.38	19.2
		400						18.2
		415						17.6
PURY-P400YGM-A		380		32.32	9.7	8	0.64	22.6
		400						21.5
		415						20.7
PUHY-P450YGM-A		380		32.75	6.8+5.3	92.5 85.5	0.38 × 2	22.9
		400						21.8
		415						21
PURY-P500YGM-A		380		37.61	8.2+5.3	92.5 85.5	0.38 × 2	26.3
		400						25
		415						24
PURY-P550YGM-A		380		41.18	9.3+5.3	92.5 85.5	0.38 × 2	28.8
		400						27.3
		415						26.4
PURY-P600YGM-A		380		42.33	10.1+5.3	92.5 85.5	0.38 × 2	29.6
		400						28.2
		415						27.1
PURY-P650YGM-A		380		47.33	10.9+5.3	92.5 85.5	0.38 × 2	33.1
		400						31.5
		415						30.3

2.6.3 BC controller

Model	Units			Power supply		RLA(A)
	Hz	Volts	Voltage range	MCA(A)	MFA(A)	
CMB-P104V-G	50/60	220	Max.: 264V Min.: 198V	0.45	15	0.31
		230				0.34
		240				0.36
CMB-P105V-G		220		0.55	15	0.38
		230				0.41
		240				0.44
CMB-P106V-G		220		0.65	15	0.45
		230				0.48
		240				0.52
CMB-P108V-G		220		0.85	15	0.58
		230				0.63
		240				0.68
CMB-P1010V-G		220		1.04	15	0.71
		230				0.77
		240				0.83
CMB-P1013V-G		220		1.34	15	0.92
		230				1.00
		240				1.07
CMB-P1016V-G		220		1.63	15	1.12
		230				1.22
		240				1.30
CMB-P108V-GA		220		0.85	15	0.58
		230				0.63
		240				0.68
CMB-P1010V-GA		220		1.04	15	0.71
		230				0.77
		240				0.83
CMB-P1013V-GA		220		1.34	15	0.92
		230				1.00
		240				1.07
CMB-P1016V-GA		220		1.63	15	1.12
		230				1.22
		240				1.30
CMB-P104V-GB		220		0.40	15	0.28
		230				0.30
		240				0.32
CMB-P108V-GB		220		0.79		0.55
		230				0.59
		240				0.63

Symbols
MCA : Max.Circuit Amps (=1.25 × max. RLA)
MFA : Max. Fuse Amps
RLA : Rated Load Amps

2.7 Installation

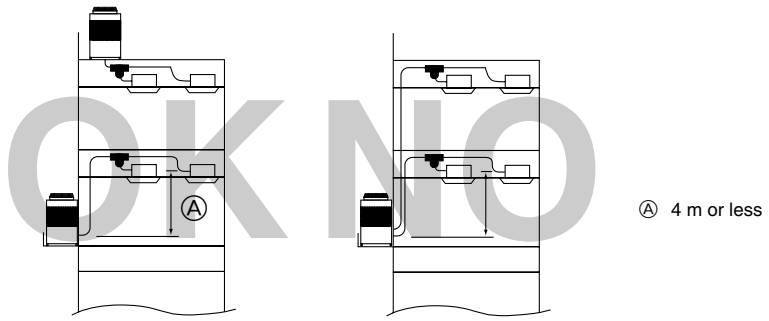
2.7.1 Selection of installation site

2.7.1.1 PUHY,PUY-P-YGM

Select space for installing outdoor unit, which will meet the following conditions:

a. No direct thermal radiation from other heat sources
b. No possibility of annoying neighbors by noise from unit
c. No exposition to strong wind
d. With strength which bears weight of unit
e. Note that drain flows out of unit when heating
f. With space for air passage and service work shown 2.7.2 Space required around unit
Because of the possibility of fire, do not install unit to the space where generation, inflow, stagnation, and leak of combustible gas is expected.
g. Avoid unit installation in a place where acidic solution and spray (sulfur) are often used.
h. When having cooling operation at an outside air temperature of below 0°C, in order to obtain steady operation of unit, select an installation site not exposed directly to rain and snow, or install air outlet and inlet ducts. Install the outdoor unit at the same position on the same floor, or above, the indoor unit.
i. Do not use unit in any special environment where oil, steam and sulfuric gas exist.

j. Installation restriction on outdoor unit when cooling operation is performed when the outdoor air temperature is 0°C or lower.



(Same floor as indoor unit, or floor above)

2.7.1.2 PURY-P-YGM

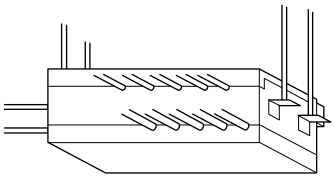
Select space for installing heat source unit, which will meet the following conditions:

a. No direct thermal radiation from other heat sources
b. No possibility of annoying neighbors by noise from unit
c. With strength which bears weight of unit
d. Note that drain flows out of unit when heating
e. With space and service work shown 2.7.2 Space required around unit
Because of the possibility of fire, do not install unit to the space where generation, inflow, stagnation, and leak of combustible gas is expected.
f. Avoid unit installation in a place where acidic solution and spray (sulfur) are often used.
g. Do not use unit in any special environment where oil, steam and sulfuric gas exist.

2.7.1.3 BC controller

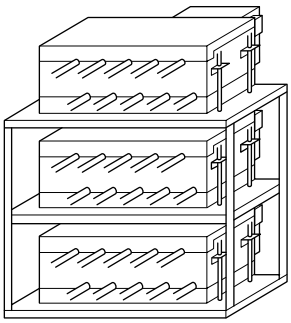
a. Place not exposed to rain. (BC controller is a special machine for indoor use.)
b. Place with large enough service space.
c. Place in which refrigerant pipes can be provided within the limitations.
d. Place not exposed to direct radiant heat from other heat sources.
e. Do not install the unit in any oily steamy place or near any machine that generates high frequencies. Doing so may cause a risk of fire, erroneous operation or dew drop.
f. Place with less noise effect generated from other units.
g. Place in which water piping, refrigerant piping and electrical wiring can be done easily.
h. Avoid places exposed to the generation, inflow, accumulation or leakage of flammable and sulfuric gases.
i. Place in which a downward pitch of more than 1/100 can be taken for drain piping.

Ⅰ. For hanging from the ceiling



a. Provide a inspection hole 450 mm square to the ceiling surface as shown in 2.7.2 Space required around unit.
b. Above the ceiling of corridor or bath rooms where persons are not regularly there
(Avoid installing at around center of the room.)
c. Place with strength to the degree that hanging bolts can be mounted (that sustains a pull-out load of 60kg per bolt)
d. Be sure to install BC controllers at level.

Ⅱ. For stacking on a rack



a. Place in which sufficient space can be obtained around a rack
b. Place with floor strength that sustains the entire weight

⚠Warning:
Be sure to install the unit in a place that well sustains the entire weight.
If there is a lack of strength, it may cause the unit to fall down, resulting in an injury.

⚠Caution:
Be sure to install the unit at level.

2.7.2 Space required around unit

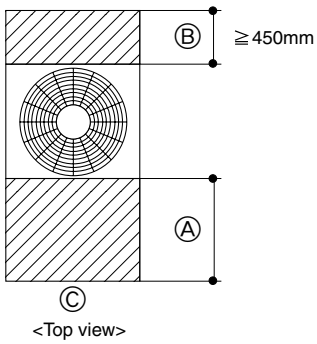
2.7.2.1 PUHY,PUY-P-YGM

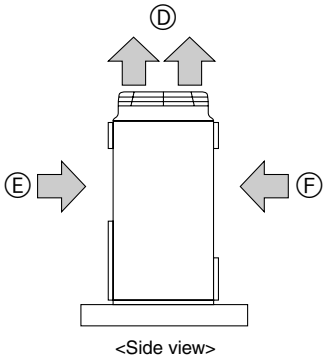
2.7.2.1.1 Individual installation

2.7.2.1.1.1 Basic space required

A space of at least 100(450) mm is necessary at the back for inlet air. Taking servicing, etc. from the rear into account, a space of about 450 mm should be provided, the same as at the front.

a.< Model : 200, 250, 300, 350, 400>

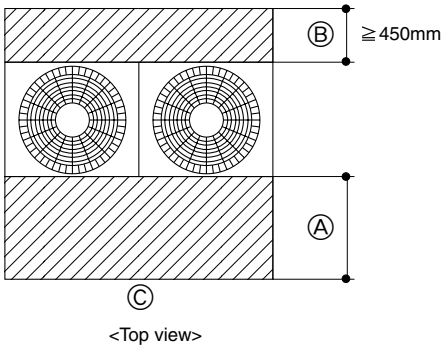




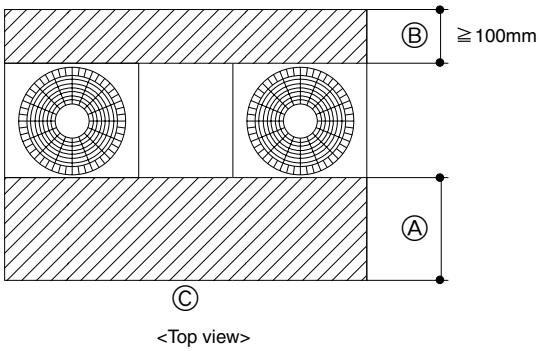
	L_1	L_2
R410A units	450mm	100/450mm

Ⓐ L_1 mm or more
Ⓑ L_2 mm or more
Ⓒ Front (outside of machine room)
Ⓓ Top discharge (open in principle)
Ⓔ Front inlet (open in principle)
Ⓕ Rear inlet (open in principle)

b.< Model : 450, 500, 550, 600, 650>

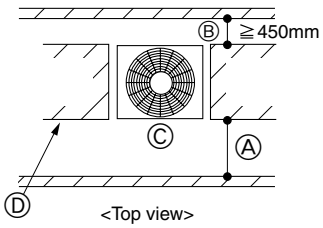


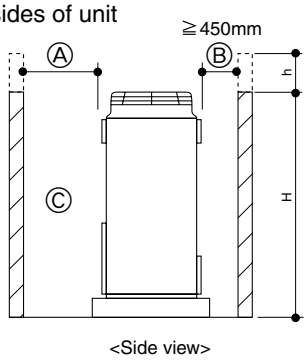
c.< Model : 700, 750, 800>



2.7.2.1.1.2 When inlet air enters from right and left sides of unit

a.< Model : 200, 250, 300, 350, 400>

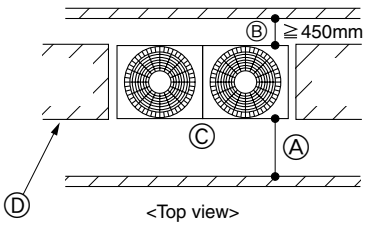




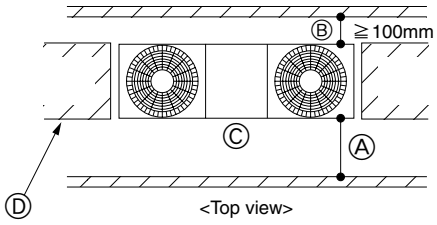
Ⓐ L_1 or more
Ⓑ L_2 or more
Ⓒ Front
Ⓓ No restrictions on wall height (left and right)

	L_1	L_2
R410A units	450mm	100/450mm

b.< Model : 450, 500, 550, 600, 650>



c.< Model : 700, 750, 800>

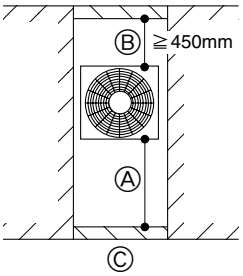


Note:

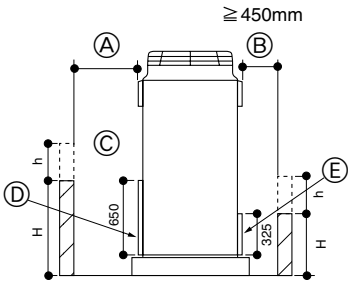
- **Wall heights (H) of the front and the back sides shall be within overall height of unit.**
- **When the total height is exceeded, add the "h" dimension of the figure above to L_1 in the table above.**

2.7.2.1.1.3 When unit is surrounded by walls

a. < Model : 200, 250, 300, 350, 400>



<Top view>

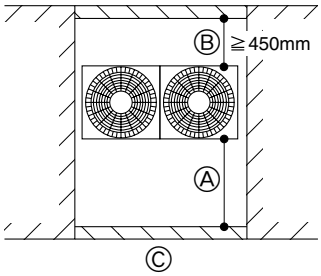


<Side view>

Ⓐ L_1 or more
Ⓑ L_2 or more
Ⓒ Front
Ⓓ Front panel
Ⓔ Rear panel

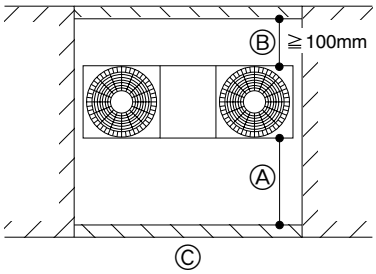
	L_1	L_2
R410A units	450mm	100/450mm

b. < Model : 450, 500, 550, 600, 650>



<Top view>

c < Model : 700, 750, 800>.



<Top view>

Note:

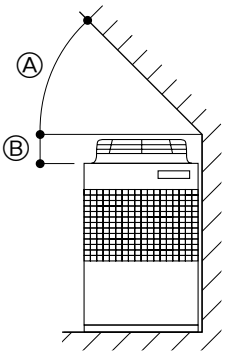
- **Wall heights (H) of the front and the back sides shall be within height of front panel and rear panel.**
- **If the panel height is exceeded, add the "h" dimension of the figure above to L_1 and L_2 in the table**

Example: When h is 100

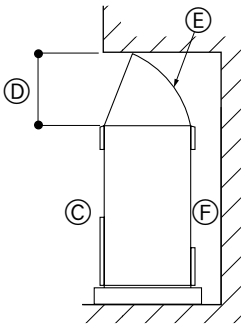
The L_1 dimension becomes
450+100 = 550 mm.

2.7.2.1.1.4 When there is an obstruction above the unit

a. < Model : 200, 250, 300, 350, 400>



<Front view>

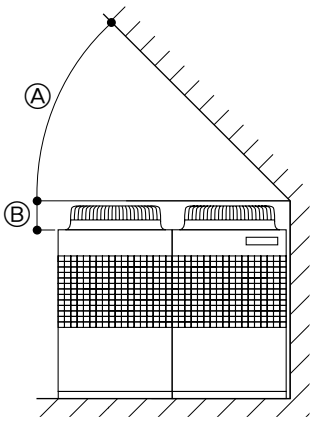


When there is little space up to an obstruction

<Side view>

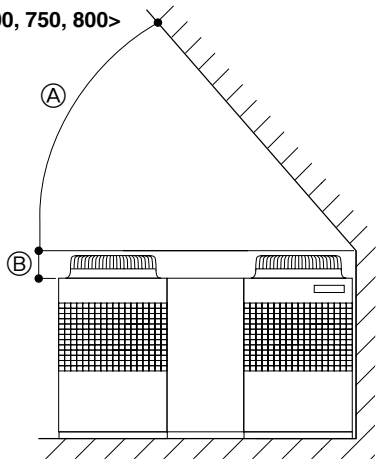
Ⓐ 45° or more
Ⓑ 300 mm or more
Ⓒ Front
Ⓓ 1000 mm or more
Ⓔ Air outlet guide (procured at the site)
Ⓕ Rear

b. < Model : 450, 500, 550, 600, 650>



<Front view>

c. < Model : 700, 750, 800>

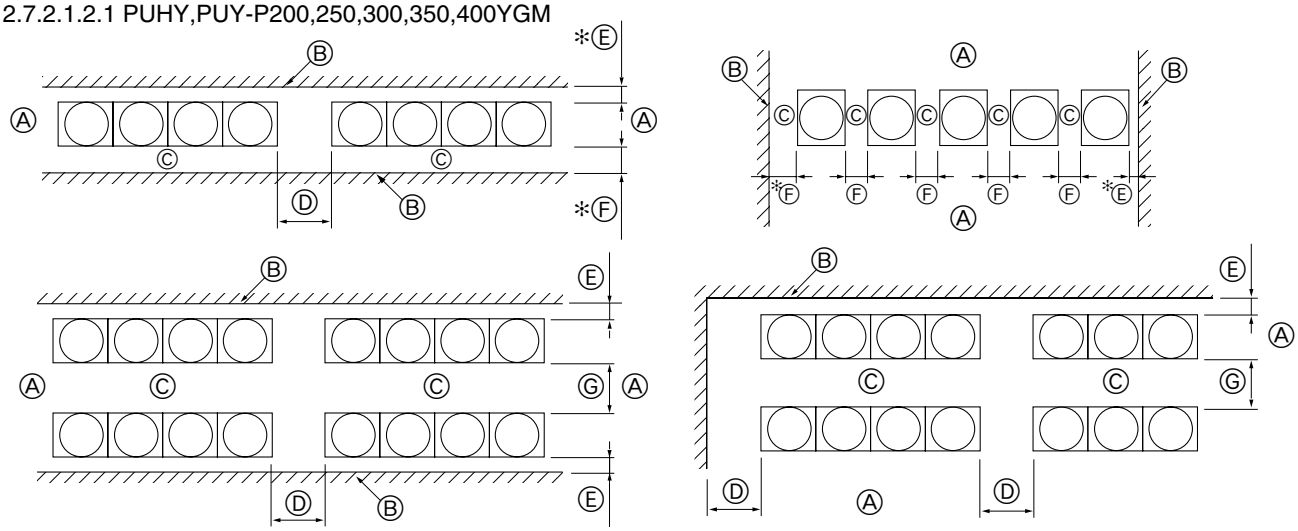


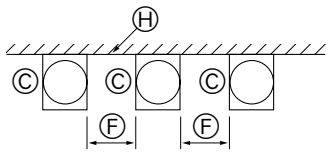
<Front view>

2.7.2.1.2 Collective installation and continuous installation

Space required for collective installation :When installing several units, leave the space between each block as shown below for passage for air and service people.

2.7.2.1.2.1 PUHY,PUY-P200,250,300,350,400YGM





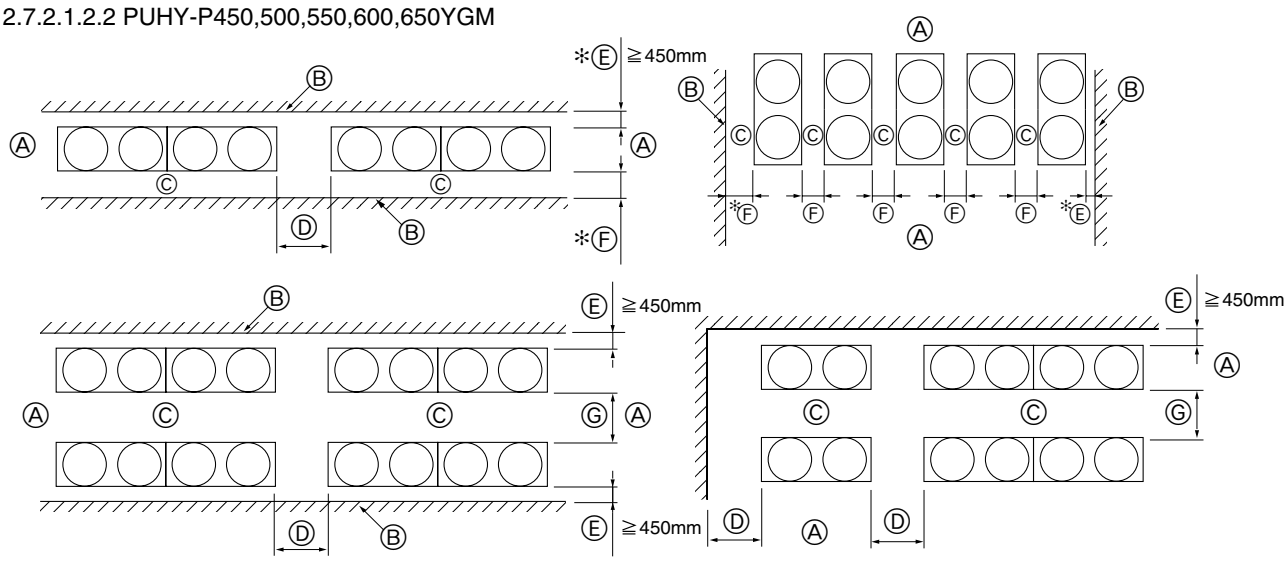
Ⓐ (Must be open)
Ⓑ Wall height (H)
Ⓒ Front
Ⓓ 1000 mm or more
Ⓔ L2 mm or more
Ⓕ L1 mm or more
Ⓖ 900 mm or more
Ⓗ No restrictions on wall height

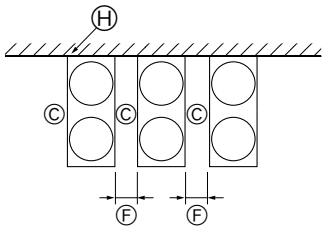
	L1	L2
R410A units	450mm	450mm

Note:

- **Open in the two directions**
- **In case wall height (H) exceeds overall height of unit, add "h" dimension (h=wall height <H> – overall height of unit) to ✻ marked dimension.**
- **If there is a wall at both the front and the rear of the unit, install up to three units consecutively in the side direction and provide a space of 1000 mm or more as inlet space/passage space for every four units.**

2.7.2.1.2.2 PUHY-P450,500,550,600,650YGM





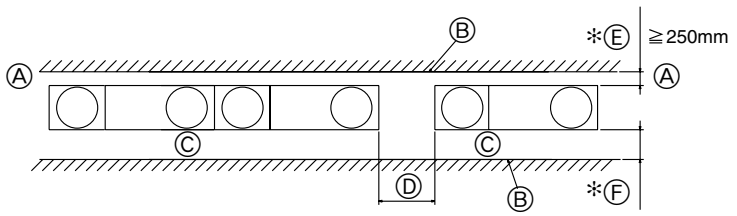
Ⓐ (Must be open)
Ⓑ Wall height (H)
Ⓒ Front
Ⓓ 1000 mm or more
Ⓔ L2 mm or more
Ⓕ L1 mm or more
Ⓖ 900 mm or more
Ⓗ No restrictions on wall height

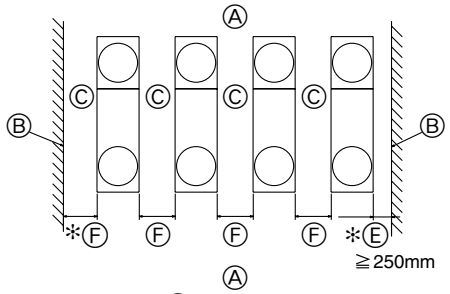
	L1	L2
R410A units	450mm	450mm

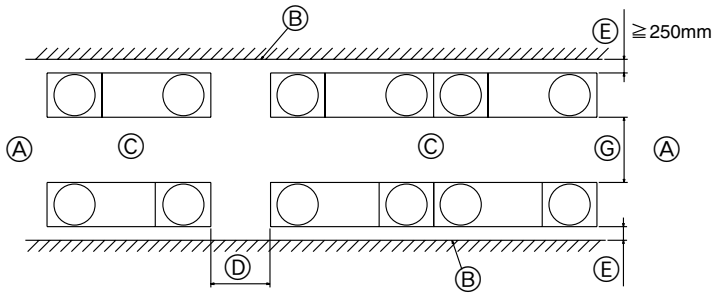
Note:

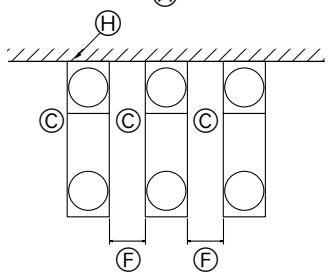
- **Open in the two directions**
- **In case wall height (H) exceeds overall height of unit, add "h" dimension (h=wall height <H> – overall height of unit) to ✻ marked dimension.**
- **If there is a wall at both the front and the rear of the unit, install up to three units consecutively in the side direction and provide a space of 1000 mm or more as inlet space/passage space for every three units.**

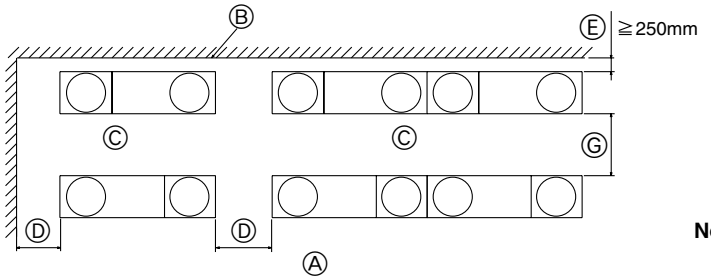
2.7.2.1.2.3 PUHY-P700, 750, 800YSGM





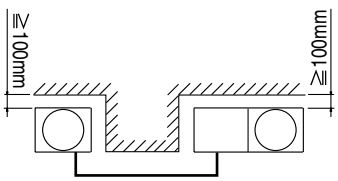






Ⓐ (Must be open)
Ⓑ Wall height (H)
Ⓒ Front
Ⓓ 1000 mm or more
Ⓔ L_2 mm or more
Ⓕ L_1 mm or more
Ⓖ 900 mm or more
Ⓗ No restrictions on wall height

	L_1	L_2
R410A units	450mm	250mm



・Piping length ≦ 10m
(Equivalent piping length ≦ 12m)

Note:

- **Open in the two directions**
- **In case wall height (H) exceeds overall height of unit, add "h" dimension (h=wall height <H> – overall height of unit) to ✻ marked dimension.**
- **If there is a wall at both the front and the rear of the unit, install up to two sets (two compressor units and heat exchanger units) consecutively in the side direction and provide a space of 1000 mm or more as inlet space/passage space for every two sets.**

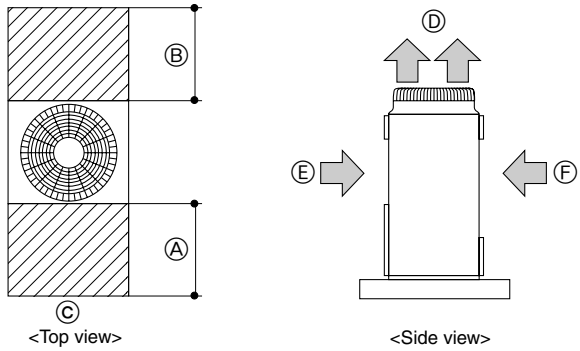
2.7.2.2 PURY-P-YGM

2.7.2.2.1 Individual installation

2.7.2.2.1.1 Basic space required

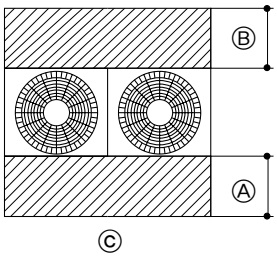
Taking servicing, etc. from the rear into account, a space of about 450 mm should be provided, the same as at the front.

a. < Model : 200, 250, 300, 350, 400>



<Top view> <Side view>

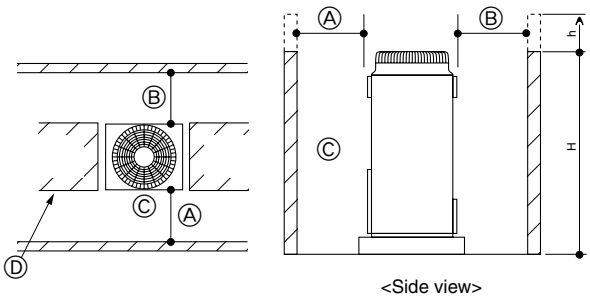
b. < Model : 450, 500, 550, 600, 650>



Ⓐ 450 mm or more
Ⓑ 450 mm or more
Ⓒ Front (outside of machine room)
Ⓓ Top discharge (open in principle)
Ⓔ Front inlet (open in principle)
Ⓕ Rear inlet (open in principle)

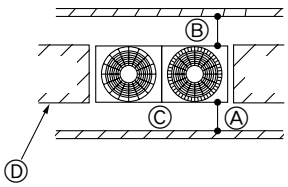
2.7.2.2.1.2 When inlet air enters from right and left sides of unit

a < Model : 200, 250, 300, 350, 400>



<Side view>

b < Model : 450, 500, 550, 600, 650>



Ⓐ L_1 or more
Ⓑ L_2 or more
Ⓒ Front
Ⓓ No restrictions on wall height (left and right)

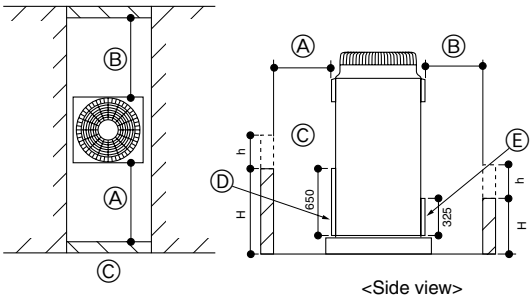
Note:

- **Wall heights (H) of the front and the back sides shall be within overall height of unit.**
- **When the total height is exceeded, add the "h" dimension of the figure above to L_1 and L_2 in the table above.**

L_1	L_2
450	450

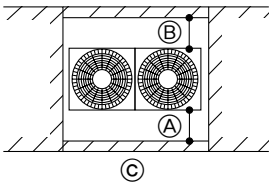
2.7.2.2.1.3 When unit is surrounded by walls

a. < Model : 200, 250, 300, 350, 400>



<Side view>

b. < Model : 450, 500, 550, 600, 650>



Ⓐ L_1 or more
Ⓑ L_2 or more
Ⓒ Front
Ⓓ Front panel
Ⓔ Rear panel

Note:

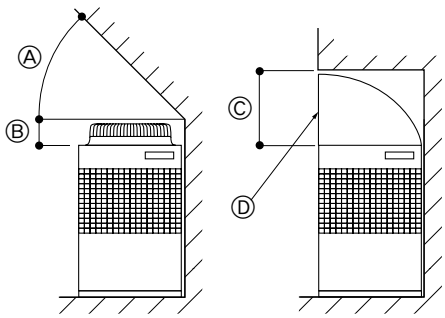
- **Wall heights (H) of the front and the back sides shall be within height of front panel and rear panel.**
- **If the panel height is exceeded, add the "h" dimension of the figure above to L_1 and L_2 in the table above.**

L_1	L_2
450	450

Example: When h is 100
The L_1 dimension becomes 450+100 = 550 mm.

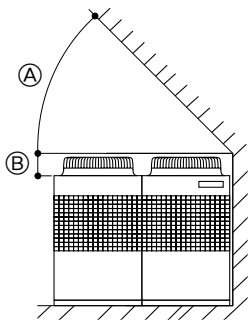
2.7.2.2.1.4 When there is an obstruction above the unit

a < Model : 200, 250, 300, 350, 400>



When there is little space up to an obstruction

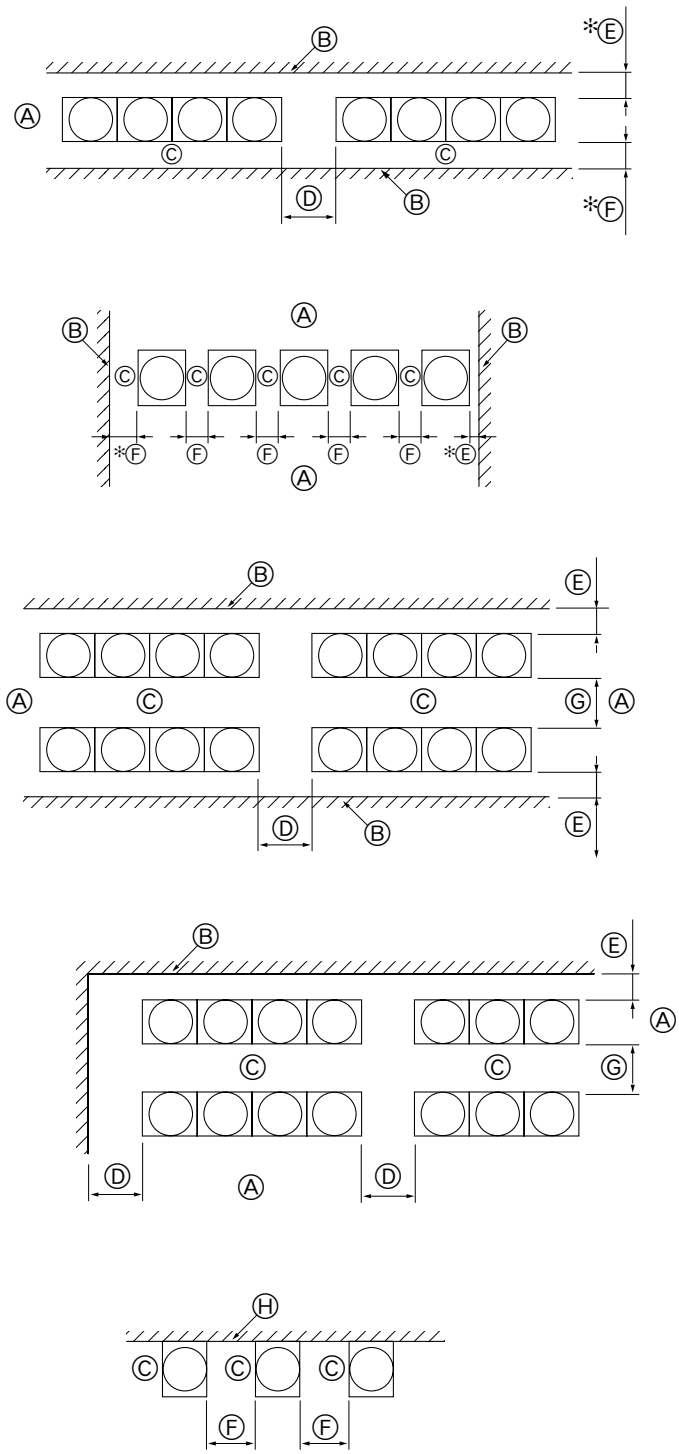
b < Model : 450, 500, 550, 600, 650>



Ⓐ 45° or more
Ⓑ 300 mm or more
Ⓒ 1000 mm or more
Ⓓ Air outlet guide (Procured at the site)

2.7.2.2.2 Collective installation

Space required for collective installation and continuous installation for PURY-P-YGM units : When installing several units, leave the space between each block as shown below considering passage for air and people.



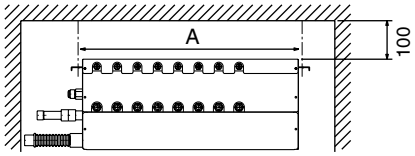
Note:

- **Open in the two directions**
- **In case wall height (H) exceeds overall height of unit, add "h" dimension (h=wall height <H> – overall height of unit) to ✻ marked dimension.**
- **If there is a wall at both the front and the rear of the unit, install up to three units consecutively in the side direction and provide a space of 1000 mm or more as inlet space/passage space for every four units (P200~P400), or every three units (P450~P650).**

2.7.2.3 BC controller

2.7.2.3.1 For hanging from the ceiling

<Front view> (when hanging to install)



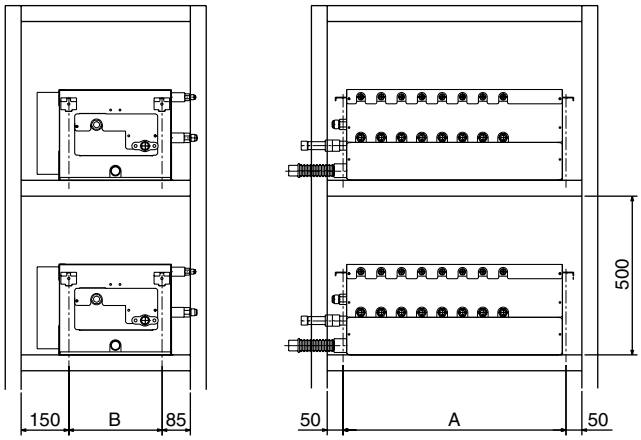
*1 Dimensions with which pipe connection can be handled at site

Model name	A
CMB-P104V-G	702
CMB-P105V-G	702
CMB-P106V-G	702
CMB-P108V-G	702
CMB-P1010V-G	702
CMB-P1013V-G	1152
CMB-P1016V-G	1152

Model name	A
CMB-P108V-GA	1164
CMB-P1010V-GA	1164
CMB-P1013V-GA	1164
CMB-P1016V-GA	1164
CMB-P104V-GB	702
CMB-P108V-GB	702

2.7.2.3.2 When stacking on a rack

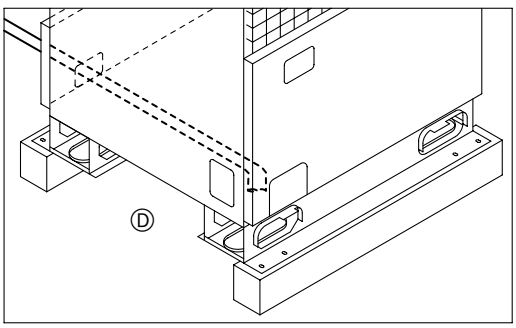
(This is a reference view showing the least installation space.)



Model name	B
CMB-P104V-G	298
CMB-P105V-G	298
CMB-P106V-G	298
CMB-P108V-G	298
CMB-P1010V-G	298
CMB-P1013V-G	298
CMB-P1016V-G	298
CMB-P108V-GA	388
CMB-P1010V-GA	388
CMB-P1013V-GA	388
CMB-P1016V-GA	388
CMB-P104V-GB	298
CMB-P108V-GB	298

2.7.3 Connecting direction for refrigerant piping

2.7.3.1 PUHY, PUY-P-YGM



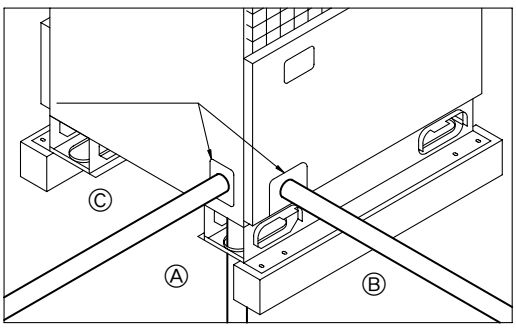
Piping with the outdoor unit as follows is possible.

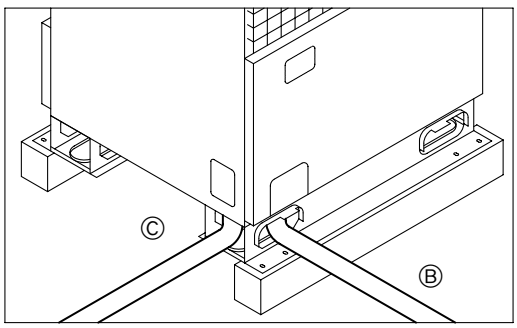
Ⓐ Bottom piping
Ⓑ Front piping
Ⓒ Left piping
Ⓓ Rear piping

Yet, Left piping the outdoor unit could be not possible when there is another installed at the left side closely.

Also, follow 2 items of procedure are recommended for consideration:

1. In the case of bottom piping, the base is recommended to have 100mm's height to let the bottom piping easy.
2. In the case of take off the knock-out hole to do Front-piping or Rear-piping, closing procedure is necessary for avoiding the rain would enter the unit through the hole.





2.7.4 Caution for snow and seasonal wind

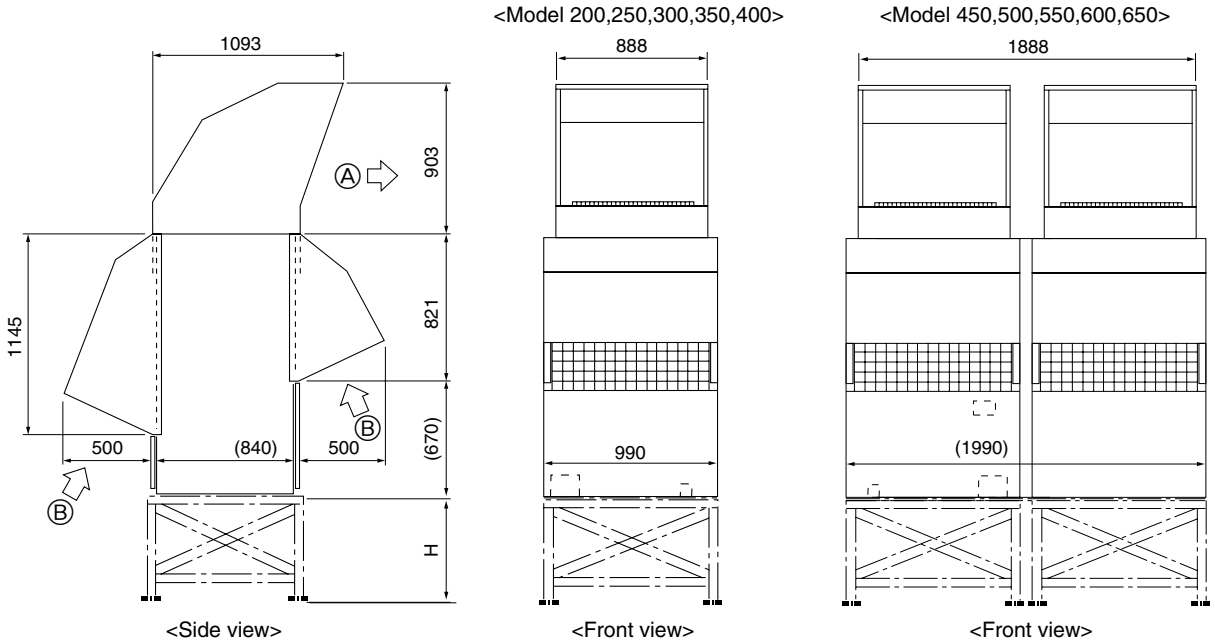
2.7.4.1 PUHY,PUY,PURY-P-YGM

In cold and/or snowy areas, sufficient countermeasures to wind and snow damages should be taken for operating unit in normal and good condition in winter time. Even in the other areas, full consideration is required for installation of unit in order to prevent abnormal operations caused by wind or snow. **When rain and snow directly fall on unit in the case of air-conditioning operations in 10 or less degrees centigrade outdoor air, mount inlet and outlet ducts on unit for assuring stable operations.**

2.7.4.1.1 Snow and wind

Prevention of wind and snow damages in cold or snowy areas:
Refer to the figure of snow hood shown below:

• Snow hood



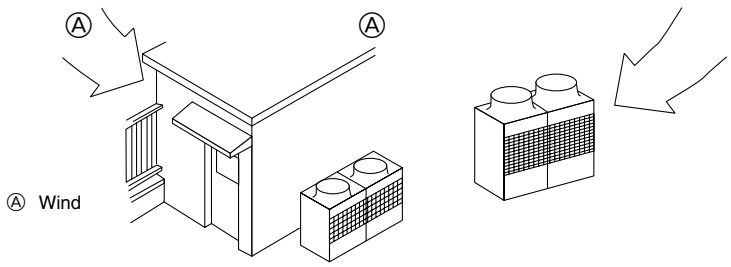
Ⓐ Outlet Ⓑ Inlet

Note:

1. **Height of frame base for snow damage prevention (H) shall be twice as high as expected snowfall. Width of frame base shall not exceed that of the unit. The frame base shall be made of angle steel, etc., and designed so that snow and wind slip through the structure. (If frame base is too wide, snow will be accumulated on it.)**
2. **Install unit so that wind will not directly lash against openings of inlet and outlet ducts.**
3. **Build frame base at customer referring to this figure.**
   Material : Galvanized steel plate 1.2T
   Painting : Overall painting with polyester powder
   Color : Munsell 5Y8/1 (same as that of unit)
4. **When the unit is used in a cold region and the heating operation is continuously performed for a long time when the outside air temperature is below freezing, install a heater to the unit base or take other appropriate measures to prevent water from freezing on the base.**

2.7.4.1.2 Countermeasure to wind

Referring to the figure shown below, take appropriate measures which will suit the actual situation of the place for installation.



2.8 Joint/Header/Reduction

2.8.1 Branch joint pipe set

(CMY-Y102S-G, CMY-Y102L-G, CMY-Y202-G, CMY-Y302-G)

The following parts are contained as one set.

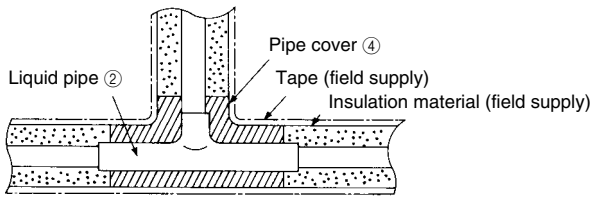
Part name	1. Instruction	2. 2-branch joint (small)	3. 2-branch joint (large)	4. Cover 1	5. Cover 2	6. Pipe 1	7. Pipe 2	8. Pipe 3	9. Pipe 4
Shape	Installation Manual	For liquid line	For gas line	For liquid line	For gas line	OD9.52-ID6.35	OD15.88-ID12.7	OD19.05-ID12.7	OD19.05-ID15.88
CMY-Y102S-G	1	1	1	1	1	2	1	1	2
CMY-Y102L-G	1	1	1	1	1	1	-	1	2
CMY-Y202-G	1	1	1	1	1	-	1	1	1
CMY-Y302-G	1	1	1	1	1	-	1	1	1

Part name	10. Pipe 5	11. Pipe 6	12. Pipe 7	13. Pipe 8	14. Pipe 9	15. Pipe 10	16. Pipe 11	17. Pipe 12	18. Pipe 13
Shape	OD12.7-ID9.52	OD19.05-ID22.2	OD25.4-ID22.2	OD25.4-ID12.7	OD12.7-ID6.35	OD15.88-ID9.52	OD19.05-ID25.4	OD25.4-ID28.58	OD15.88-ID6.35
CMY-Y102S-G	-	-	-	-	-	-	-	-	-
CMY-Y102L-G	2	1	2	1	-	2	-	-	-
CMY-Y202-G	2	1	1	1	1	3	1	-	-
CMY-Y302-G	-	-	1	1	-	1	-	1	1

Part name	19. Pipe 14	20. Pipe 16	21. Pipe 17	22. Pipe 18	23. Pipe 19	24. Pipe 20	25. Pipe 21
Shape	OD31.75-ID28.58	OD31.75-ID25.4	OD25.4-ID19.05	OD25.4-ID31.75	OD25.4-ID15.88	OD31.75-ID34.93	OD31.75-ID41.28
CMY-Y102S-G	-	-	-	-	-	-	-
CMY-Y102L-G	-	-	1	-	-	-	-
CMY-Y202-G	-	-	-	-	-	-	-
CMY-Y302-G	1	1	1	1	1	3	2

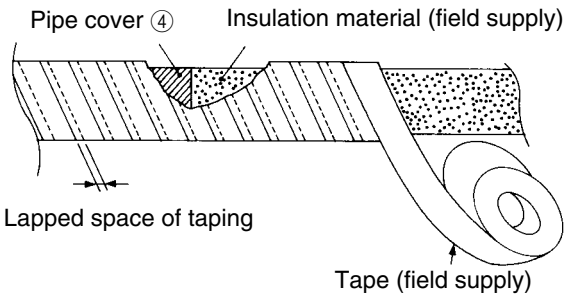
2.8.2 Mounting cover (insulation material)

Fig.1 (Example for liquid line)



- Mount liquid pipe ② to pipe cover ④ in matching.
  Seal the joint section of pipe cover ④ with insulated sealing tape (field supply). (Refer to Fig.1.)
- Apply the same procedures to the gas pipe ③ also.

Fig.2



Note 1. Apply insulation to all refrigerant piping (field supply). When using the insulation materials being marketed, employ heat resistant insulation material. (heat resistant temperature: 120 ℃ or more)

Note 2. As the pipe cover contracts slightly, conduct taping in the field securely by providing lapped parts as shown in Fig.2 so that no gap will exist on the piping cover ④ and field supply insulation material.

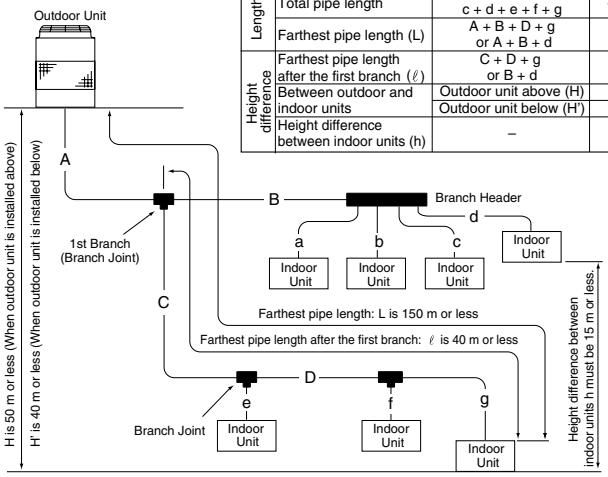
2.8.3 Selection of refrigerant piping size and use of 2-branch joint

1. Prepare the pipe to be connected in the field.
2. Determine the piping sizes of each part from Table-2,3 and 4.
3. The 2-branch joint can be connected to all piping sizes selected in the item 2. tomatch a specified piping size.
   (1) use the joint as it is.
   (2) use the joint after cutting partially.
   or (3) use it by connecting the auxiliary pipe.
   Please conduct actual work by referring Fig.4, and Table-5~11.
4. When pipe is cut with a pipe cutter or the like, remove burr, dust and foreign materials inside the pipe, and connect the pipe.

Fig.3 Limitation on Refrigerant Piping Length (In the case of PUHY)

Table-1

	Items	Pipe Section	Allowable Length
Length	Total pipe length	A + B + C + D + a + b + c + d + e + f + g	300 m or less
	Farthest pipe length (L)	A + B + D + g or A + B + d	150 m or less
Height difference	Farthest pipe length after the first branch (ℓ)	C + D + g or B + d	40 m or less
	Between outdoor and indoor units	Outdoor unit above (H)	50 m or less
		Outdoor unit below (H')	40 m or less
	Height difference between indoor units (h)	–	15 m or less



Note: No further branching allowed after the header branch

Table-2 Piping size between outdoor unit and 1st branching (Fig. 3-A)*

Outdoor unit model	Liquid pipe	Gas pipe
Model 200	ø9.52	ø19.05
Model 250	ø9.52 *1	ø22.2
Model 300	ø9.52 *2	ø22.2
Model 350	ø12.7	ø28.58
Model 400	ø12.7	ø28.58
Model 450	ø15.88	ø28.58
Model 500	ø15.88	ø28.58
Model 550	ø15.88	ø28.58
Model 600	ø15.88	ø28.58
Model 650	ø15.88	ø28.58
Model 700	ø19.05	ø34.93
Model 750	ø19.05	ø34.93
Model 800	ø19.05	ø34.93
Model 800 over	ø19.05	ø41.28

* As the values for some models differ from those in the above table, refer to the Installation Manual for the outdoor unit.
*1 ø12.7 for over 90m
*2 ø12.7 for over 40m

Table-3 Piping size between branching (Fig.3-B·C·D)

Total capacity of indoor units	Liquid pipe	Gas pipe
~140	ø9.52	ø15.88
141~200	ø9.52	ø19.05
201~300	ø9.52	ø22.2
301~400	ø12.7	ø28.58
401~650	ø15.88	ø28.58
651~800	ø19.05	ø34.93
801~	ø19.05	ø41.28

Table-4 Piping size branching (Fig. 3-a~g)

Indoor unit model	Liquid pipe	Gas pipe
20, 25, 32, 40, 50	ø6.35	ø12.7
63, 71, 80, 100, 125, 140	ø9.52	ø15.88
200	ø 9.52	ø19.05
250	ø9.52	ø22.2

Table-5 Between branching (Fig.3-C)

Pipe types \ Down stream capacity			~140	141~200	201~300	301~400	401~650	651~800	801~
			ø9.52/ø15.88	ø9.52/ø19.05	ø9.52/ø22.2	ø12.7/ø28.58	ø15.88/ø28.58	ø19.05/ø34.93	ø19.05/ø41.28
CMY-Y102S-G	Liquid pipe	ø9.52	no need pipe	no need pipe	-	-	-	-	-
	Gas pipe	ø19.05	pipe 4	no need pipe	-	-	-	-	-
CMY-Y102L-G	Liquid pipe	ø12.7	-	-	pipe 5	no need pipe	-	-	-
	Gas pipe	ø25.4	-	-	pipe 7	pipe 10	-	-	-
CMY-Y202-G	Liquid pipe	ø15.88	-	-	-	pipe 2	no need pipe	-	-
	Gas pipe	ø25.4	-	-	-	pipe 10	pipe 10	-	-
CMY-Y302-G	Liquid pipe	ø19.05	-	-	-	-	-	no need pipe	no need pipe
	Gas pipe	ø31.75	-	-	-	-	-	pipe 20	pipe 21

Table-8 Between branching (Fig.3-C)

Pipe types \ Down stream capacity			~140	141~200	201~300	301~400	401~650	651~800	801~
			ø9.52/ø15.88	ø9.52/ø19.05	ø9.52/ø22.2	ø12.7/ø28.58	ø15.88/ø28.58	ø19.05/ø34.93	ø19.05/ø41.28
CMY-Y102S-G	Liquid pipe	ø9.52	no need pipe	-	-	-	-	-	-
	Gas pipe	ø15.88	no need pipe	-	-	-	-	-	-
CMY-Y102L-G	Liquid pipe	ø9.52	no need pipe	no need pipe	no need pipe	-	-	-	-
	Gas pipe	ø19.05	pipe 4	no need pipe	pipe 6	-	-	-	-
CMY-Y202-G	Liquid pipe	ø12.7	pipe 5	pipe 5	pipe 5	no need pipe	-	-	-
	Gas pipe	ø19.05	pipe 4	no need pipe	pipe 6	pipe 11, 10	-	-	-
CMY-Y302-G	Liquid pipe	ø15.88	pipe 12	pipe 12	pipe 12	pipe 2	no need pipe	-	-
	Gas pipe	ø25.4	pipe19	pipe 17	pipe 7	pipe 10	pipe 10	-	-

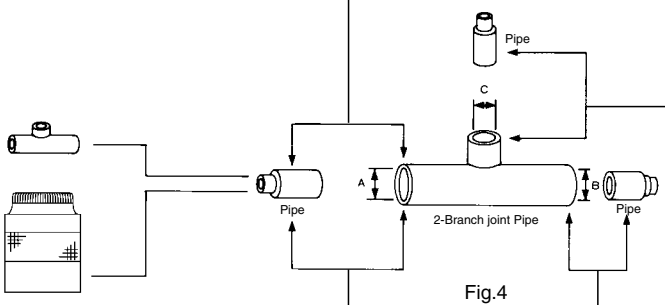


Fig.4

Table-9 Between branching and indoor unit (Fig.3-e·f)

Pipe types \ Indoor unit			Model 20~50	Model 63~140	Model 200	Model 250
			ø6.35/ø12.7	ø9.52/ø15.88	ø9.52/ø19.05	ø9.52/ø22.2
CMY-Y102S-G	Liquid pipe	ø9.52	pipe 1	no need pipe	-	-
	Gas pipe	ø15.88	pipe 2	no need pipe	-	-
CMY-Y102L-G	Liquid pipe	ø9.52	pipe1	no need pipe	no need pipe	no need pipe
	Gas pipe	ø19.05	pipe 3	pipe 4	no need pipe	pipe 6
CMY-Y202-G	Liquid pipe	ø 12.7	pipe 9	pipe 5	pipe 5	pipe 5
	Gas pipe	ø19.05	pipe 3	pipe 4	no need pipe	pipe 6
CMY-Y302-G	Liquid pipe	ø15.88	pipe 13	pipe 12	pipe 12	pipe 12
	Gas pipe	ø25.4	pipe 8	pipe 19	pipe 17	pipe 7

Table-10 Between branching (Fig.3-D)

Pipe types \ Down stream capacity			~140	141~200	201~300	301~400	401~650	651~800	801~
			ø9.52/ø15.88	ø9.52/ø19.05	ø9.52/ø22.2	ø12.7/ø28.58	ø15.88/ø28.58	ø19.05/ø34.93	ø19.05/ø41.28
CMY-Y102S-G	Liquid pipe	ø9.52	no need pipe	no need pipe	-	-	-	-	-
	Gas pipe	ø19.05	pipe 4	no need pipe	-	-	-	-	-
CMY-Y102L-G	Liquid pipe	ø12.7	-	-	pipe 5	no need pipe	-	-	-
	Gas pipe	ø25.4	-	-	pipe 7	pipe 10	-	-	-
CMY-Y202-G	Liquid pipe	ø15.88	-	-	-	pipe 2	no need pipe	-	-
	Gas pipe	ø25.4	-	-	-	pipe 10	pipe 10	-	-
CMY-Y302-G	Liquid pipe	ø19.05	-	-	-	pipe 3	pipe 4	no need pipe	no need pipe
	Gas pipe	ø31.75	-	-	-	pipe 14	pipe 14	pipe 20	pipe 21

Table-6 Between outdoor unit and 1st branching (Fig.3-A)

Pipe types \ Outdoor unit			Model 200	Model 250,300	Model 350,400	Model 450~500	Model 550~650	Model 700~800	Model 800 over
			ø9.52/ø19.05	ø9.52/ø22.2	ø12.7/ø28.58	ø15.88/ø28.58	ø15.88/ø28.58	ø19.05/ø34.93	ø19.05/ø41.28
CMY-Y102S-G	Liquid pipe	ø9.52	no need pipe	-	-	-	-	-	-
	Gas pipe	ø19.05	no need pipe	-	-	-	-	-	-
CMY-Y102L-G	Liquid pipe	ø12.7	-	pipe 5 *1	no need pipe	-	-	-	-
	Gas pipe	ø25.4	-	pipe 7	pipe 10	-	-	-	-
CMY-Y202-G	Liquid pipe	ø15.88	-	-	-	no need pipe	no need pipe	-	-
	Gas pipe	ø25.4	-	-	-	pipe 10	pipe 10	-	-
CMY-Y302-G	Liquid pipe	ø19.05	-	-	-	-	-	no need pipe	no need pipe
	Gas pipe	ø31.75	-	-	-	-	-	pipe 20	pipe 21

*1 If the pipe is over 90m for Model 250, no need pipe.
*1 If the pipe is over 40m for Model 300, no need pipe.

Table-11 Between branching and indoor unit (Fig.3-g)

Pipe types \ Indoor unit			Model 20~50	Model 63~140	Model 200	Model 250
			ø6.35/ø12.7	ø9.52/ø15.88	ø9.52/ø19.05	ø9.52/ø22.2
CMY-Y102S-G	Liquid pipe	ø9.52	pipe 1	no need pipe	no need pipe	-
	Gas pipe	ø19.05	pipe 3	pipe 4	no need pipe	-
CMY-Y102L-G	Liquid pipe	ø12.7	-	-	-	pipe 5
	Gas pipe	ø25.4	-	-	-	pipe 7
CMY-Y202-G	Liquid pipe	ø15.88	-	-	-	-
	Gas pipe	ø25.4	-	-	-	-
CMY-Y302-G	Liquid pipe	ø19.05	-	-	-	-
	Gas pipe	ø31.75	-	-	-	-

Table-7

Pipe types \ Dimension		A	B	C
CMY-Y102S-G	Liquid pipe	ø9.52	ø9.52	ø9.52
	Gas pipe	ø19.05	ø19.05	ø15.88
CMY-Y102L-G	Liquid pipe	ø12.7	ø12.7	ø9.52
	Gas pipe	ø25.4	ø25.4	ø19.05
CMY-Y202-G	Liquid pipe	ø15.88	ø15.88	ø12.7
	Gas pipe	ø25.4	ø25.4	ø19.05
CMY-Y302-G	Liquid pipe	ø19.05	ø19.05	ø15.88
	Gas pipe	ø31.75	ø31.75	ø25.4

2.9 Header for branching

2.9.1 Header set

HEADER FOR 4 BRANCHING (CMY-Y104-G)
HEADER FOR 8 BRANCHING (CMY-Y108-G)
HEADER FOR 10 BRANCHING (CMY-Y1010-G)

Header for 4 branching (CMY-Y104-G)

1 Instruction	2 Header	3 Header	4 Pipe cover - 1	5 Pipe cover - 2	6 Band
This sheet 1 sheet	For liquid line 1 pc.	For gas line 1pc.	2 pcs.	2 pcs.	4 pcs.

Usable for 3/4 branching
(* For 2 branching, use the optional header for 2 branching.)

Header for 8 branching (CMY-Y108-G)

1 Instruction	2 Header	3 Header	4 Pipe cover - 1	5 Pipe cover - 2	6 Band	7 Sealing material
This sheet 1 sheet	For liquid line 1 pc.	For gas line 1pc.	Each 2 pcs.	4 pcs.	6 pcs.	Each 1 pc.

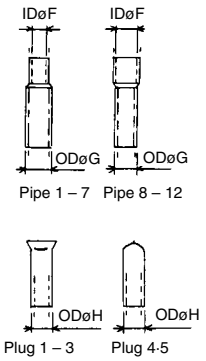
Usable for 5/6/7/8 branching

Header for 10 branching (CMY-Y1010-G)

1 Instruction	2 Header	3 Header	4 Pipe cover - 1	5 Pipe cover - 2	6 Band	7 Sealing material
This sheet 1 sheet	For liquid line 1 pc.	For gas line 1pc.	Each 2 pcs.	4 pcs.	6 pcs.	Each 1 pc.

Usable for 9/10 branching

Note 1) Please prepare the following materials in addition to the items above in the field.
(1) Tape for sealing of insulation material (2) Extension pipe for refrigerant circuit.



Note: When the number of connecting pipes is less than the number of header branches, insert a plug of the appropriate size into each branch that does not have piping connected to it.

Table-1 Accesorry pipes

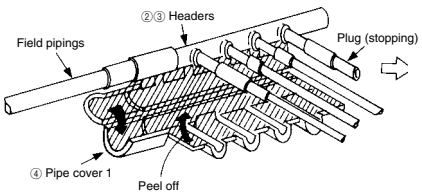
	Pipe Connection Specification		Quantity		
	F (Connecting Pipe Size)	G (Outer Diameter)	CMY-Y104-G	CMY-Y108-G	CMY-Y1010-G
Pipe 1	ø9.52	ø12.7	1	1	1
Pipe 2	ø15.88	ø19.05	1	1	2
Pipe 3	ø12.7	ø19.05	–	1	2
Pipe 4	ø6.35	ø9.52	3	6	5
Pipe 5	ø12.7	ø15.88	3	5	6
Pipe 6	ø19.05	ø25.4	–	1	1
Pipe 7	ø22.2	ø25.4	–	1	1
Pipe 8	ø28.58	ø25.4	–	1	1
Pipe 9	ø15.88	ø12.7	–	–	3
Pipe 10	ø9.52	ø6.35	–	–	5
Pipe 11	ø19.05	ø15.88	–	2	1
Pipe 12	ø22.2	ø19.05	–	1	1

Table-2 Accesorry plugs

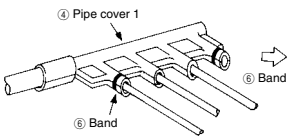
	Pipe Connection Specification	Quantity		
	H (Connecting Pipe Size)	CMY-Y104-G	CMY-Y108-G	CMY-Y1010-G
Plug 1	ø6.35	1	2	2
Plug 2	ø9.52	1	2	2
Plug 3	ø12.7	1	2	2
Plug 4	ø15.88	1	2	2
Plug 5	ø19.05	–	1	1

2.9.2 Mounting cover (insulation material)

(i) CMY-Y104-G

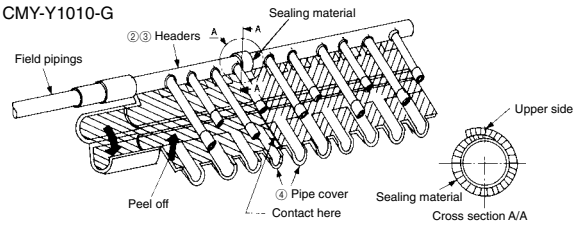


(1) Insert the ②③ headers into the pipe cover 1 (2 pcs.) respectively, peel off the paper pasted on the inner surface of the ④ pipe cover, and catch the ②③ headers with the ④ pipe cover 1.



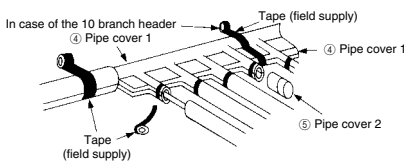
(2) Fasten both ends of the indoor side branching of the ④ pipe cover 1 with the ⑥ band as shown in the figure above.

(ii) CMY-Y108-G
CMY-Y1010-G



(1) Wind sealing material onto A-section of ②③ headers, [thin piping-small sealing material, thick piping-large sealing material], insert each header into ④ pipe cover 1, and put ②③ headers between ④ pipe cover 1.

Note) For a part where sealing material is overlapped, wind sealing material onto the header so that the overlapped part locates at the upper side when the 10 branch header is installed.



(3) Mount the ⑤ pipe cover 2 onto the positions stopped with the plugs 1 ~ 5 provided.
Fully seal the butting section of the pipe cover with a tape (field

2.9.3 Selection of refrigerant piping sizeand use of header

1. Prepare the pipe to be connected in the field.
2. Determine the piping sizes of each part from Table-4, 5 and 6.
3. The header can be connected to all piping sizes selected in the item
   2. To match a specified piping size.
   (1) use the joint as it is.
   (2) use it by connecting the auxiliary pipe.
   Please conduct actual work by referring 2.9.2 and Table-4 ~ 11.
4. Cover the branch pipe end of the header, which are not in use, with the plugs 1 ~ 5 provided.

Table-4 Piping size between outdoor unit and 1st branching (Fig.1-A)

Outdoor unit model	Liquid pipe	Gas pipe
Model 200	ø9.52	ø19.05
Model 250	ø9.52 *1	ø22.2
Model 300	ø9.52 *2	ø22.2
Model 350	ø12.7	ø28.58
Model 400	ø12.7	ø28.58
Model 450	ø15.88	ø28.58
Model 500	ø15.88	ø28.58
Model 550	ø15.88	ø28.58
Model 600	ø15.88	ø28.58
Model 650	ø15.88	ø28.58
Model 700	ø19.05	ø34.93
Model 750	ø19.05	ø34.93
Model 800	ø19.05	ø34.93
Model 800 over	ø19.05	ø41.28

*1 ø12.7 for over 90m
*2 ø12.7 for over 40m

Table-5 Piping size between branching (Fig.1-B·C·D)

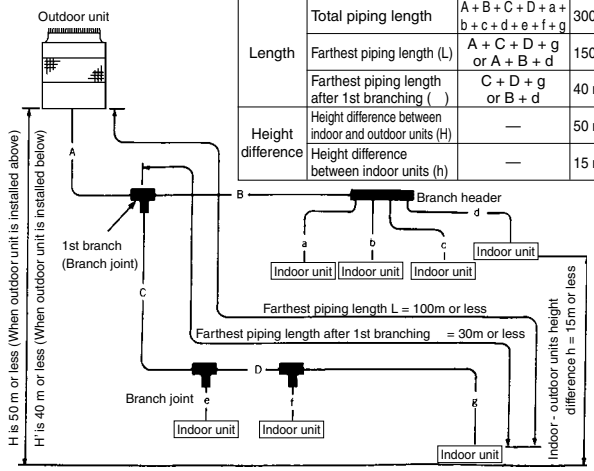
Total capacity of indoor units	Liquid pipe	Gas pipe
~140	ø9.52	ø15.88
141~200	ø9.52	ø19.05
201~300	ø9.52	ø22.2
301~400	ø12.7	ø28.58
401~650	ø15.88	ø28.58
651~800	ø19.05	ø34.93
801~	ø19.05	ø41.28

Note: If Indoor unit capacity is 651 or more, it can't connect to Fig.1-B directly. Then use the 2-branch joints. (Fig.1-C·D)

Fig.1 Limitation on Refrigerant Piping Length (In the case of PUHY)

Table-3

Item		Pipe section	Allowable value
Length	Total piping length	A + B + C + D + a + b + c + d + e + f + g	300 m or less
	Farthest piping length (L)	A + C + D + g or A + B + d	150 m or less
	Farthest piping length after 1st branching ( )	C + D + g or B + d	40 m or less
Height difference	Height difference between indoor and outdoor units (H)	—	50 m or less
	Height difference between indoor units (h)	—	15 m or less



Note : Branch piping can not be applied after header branching.

Table-6 Piping size branching (Fig.1-a~g)

Indoor unit model	Liquid pipe	Gas pipe
20, 25, 32, 40, 50	ø6.35	ø12.7
63, 71, 80, 100, 125, 140	ø9.52	ø15.88
200	ø9.52	ø19.05
250	ø9.52	ø22.2

Note: If indoor unit model is 200 and 250, it can't use the CMY-Y104, Y108 and Y1010-G. Then use the 2-branch joints.

Table-7 Between First branching and outdoor unit (Fig.1-A)

Pipe types \ Outdoor unit		Connecting Pipe Size (X)	Model 200	Model 250, 300	Model 350	Model 400	Model 450, 500, 550, 600, 650	Model 700, 750, 800
CMY-Y104-G	Liquid pipe	ø12.7	Connect with pipe 1	-	-	-	-	-
	Gas pipe	ø19.05	No need pipe	-	-	-	-	-
CMY-Y108-G	Liquid pipe	ø12.7	Connect with pipe 1	Connect with pipe 1	No need pipe	-	-	-
	Gas pipe	ø 25.4	Connect with pipe 6	Connect with pipe 7	Connect with pipe 8	Connect with pipe 8	-	-
CMY-Y1010-G	Liquid pipe	ø15.88	Connect with pipe 1, 5	Connect with pipe 1, 5	Connect with pipe 5	Connect with pipe 5	No need pipe	-
	Gas pipe	ø25.4	Connect with pipe 6	Connect with pipe 7	Connect with pipe 8	Connect with pipe 8	Connect with pipe 8	-

Note: Pipes on 450-type unit and up cannot be branched using a header (4~10-branch header); use an optional 2-branch joint.

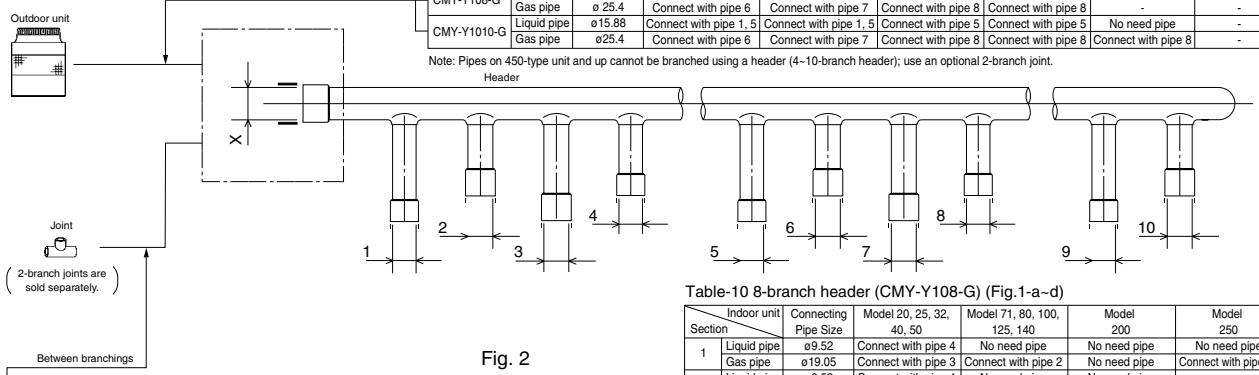


Fig. 2

Table-8 Between branching (Fig.1-B)

Pipe types \ Down stream capacity		Connecting Pipe Size (X)	Model 140	Model 141~200	Model 201~300	Model 301~400	Model 401~650	Model 651~800	Model 801 or more
CMY-Y104-G	Liquid pipe	ø12.7	Connect with pipe 1	Connect with pipe 1	-	-	-	-	-
	Gas pipe								
	Liquid pipe	ø19.05	Connect with pipe 2	No need pipe	-	-	-	-	-
	Gas pipe								
CMY-Y108-G	Liquid pipe	ø12.7	Connect with pipe 1	Connect with pipe 1	Connect with pipe 1	No need pipe	-	-	-
	Gas pipe								
	Liquid pipe	ø 25.4	Connect with pipe 2, 6	Connect with pipe 6	Connect with pipe 7	No need pipe	-	-	-
	Gas pipe								
CMY-Y1010-G	Liquid pipe	ø15.88	Not connectable	Connect with pipe 1, 5	Connect with pipe 1, 5	Connect with pipe 5	No need pipe	-	-
	Gas pipe								
	Liquid pipe	ø25.4	Not connectable	Connect with pipe 6	Connect with pipe 7	Connect with pipe 8	Connect with pipe 8	-	-
	Gas pipe								

Table-9 4-branch header (CMY-Y104-G) (Fig.1-a~d)

Section \ Indoor unit		Connecting Pipe Size	Model 20, 25, 32, 40, 50	Model 71, 80, 100, 125, 400	Model 200	Model 250
1	Liquid pipe	ø9.52	Connect with pipe 4	No need pipe	-	-
	Gas pipe	ø15.88	Connect with pipe 5	No need pipe	-	-
2	Liquid pipe	ø6.35	No need pipe	-	-	-
	Gas pipe	ø12.7	No need pipe	-	-	-
3	Liquid pipe	ø9.52	Connect with pipe 4	No need pipe	-	-
	Gas pipe	ø15.88	Connect with pipe 5	No need pipe	-	-
4	Liquid pipe	ø9.52	Connect with pipe 4	No need pipe	-	-
	Gas pipe	ø15.88	Connect with pipe 5	No need pipe	-	-

Table-10 8-branch header (CMY-Y108-G) (Fig.1-a~d)

Section \ Indoor unit		Connecting Pipe Size	Model 20, 25, 32, 40, 50	Model 71, 80, 100, 125, 140	Model 200	Model 250
1	Liquid pipe	ø9.52	Connect with pipe 4	No need pipe	No need pipe	No need pipe
	Gas pipe	ø19.05	Connect with pipe 3	Connect with pipe 2	No need pipe	Connect with pipe 12
2	Liquid pipe	ø9.52	Connect with pipe 4	No need pipe	No need pipe	-
	Gas pipe	ø15.88	Connect with pipe 5	No need pipe	Connect with pipe 11	-
3	Liquid pipe	ø9.52	Connect with pipe 4	No need pipe	No need pipe	-
	Gas pipe	ø15.88	Connect with pipe 5	No need pipe	Connect with pipe 11	-
4	Liquid pipe	ø9.52	Connect with pipe 4	No need pipe	-	-
	Gas pipe	ø15.88	Connect with pipe 5	No need pipe	-	-
5	Liquid pipe	ø9.52	Connect with pipe 4	No need pipe	-	-
	Gas pipe	ø15.88	Connect with pipe 5	No need pipe	-	-
6	Liquid pipe	ø6.35	No need pipe	-	-	-
	Gas pipe	ø12.7	No need pipe	-	-	-
7	Liquid pipe	ø9.52	Connect with pipe 4	No need pipe	-	-
	Gas pipe	ø15.88	Connect with pipe 5	No need pipe	-	-
8	Liquid pipe	ø6.35	No need pipe	-	-	-
	Gas pipe	ø12.7	No need pipe	-	-	-

Table-11 10-branch header (CMY-Y1010-G) (Fig.1-a~d)

Section \ Indoor unit		Connecting Pipe Size	Model 20, 25, 32, 40, 50	Model 71, 80, 100, 125, 140	Model 200	Model 250
1	Liquid pipe	ø9.52	Connect with pipe 4	No need pipe	No need pipe	No need pipe
	Gas pipe	ø19.05	Connect with pipe 3	Connect with pipe 2	No need pipe	Connect with pipe 12
2	Liquid pipe	ø6.35	No need pipe	Connect with pipe 10	Connect with pipe 10	-
	Gas pipe	ø15.88	Connect with pipe 5	No need pipe	Connect with pipe 11	-
3	Liquid pipe	ø9.52	Connect with pipe 4	No need pipe	No need pipe	-
	Gas pipe	ø19.05	Connect with pipe 3	Connect with pipe 2	No need pipe	-
4	Liquid pipe	ø6.35	No need pipe	Connect with pipe 10	-	-
	Gas pipe	ø15.88	Connect with pipe 5	No need pipe	-	-
5	Liquid pipe	ø9.52	Connect with pipe 4	No need pipe	-	-
	Gas pipe	ø15.88	Connect with pipe 5	No need pipe	-	-
6	Liquid pipe	ø6.35	No need pipe	Connect with pipe 10	-	-
	Gas pipe	ø12.7	No need pipe	Connect with pipe 9	-	-
7	Liquid pipe	ø9.52	Connect with pipe 4	No need pipe	-	-
	Gas pipe	ø15.88	Connect with pipe 5	No need pipe	-	-
8	Liquid pipe	ø6.35	No need pipe	Connect with pipe 10	-	-
	Gas pipe	ø12.7	No need pipe	Connect with pipe 9	-	-
9	Liquid pipe	ø9.52	Connect with pipe 4	No need pipe	-	-
	Gas pipe	ø15.88	Connect with pipe 5	No need pipe	-	-
10	Liquid pipe	ø6.35	No need pipe	Connect with pipe 10	-	-
	Gas pipe	ø12.7	No need pipe	Connect with pipe 9	-	-

3. Caution For Refrigerant Leak

The installer and system specialist shall secure safety against leakage according to local regulations or standards. The following standards may be applicable if local regulations are not available.

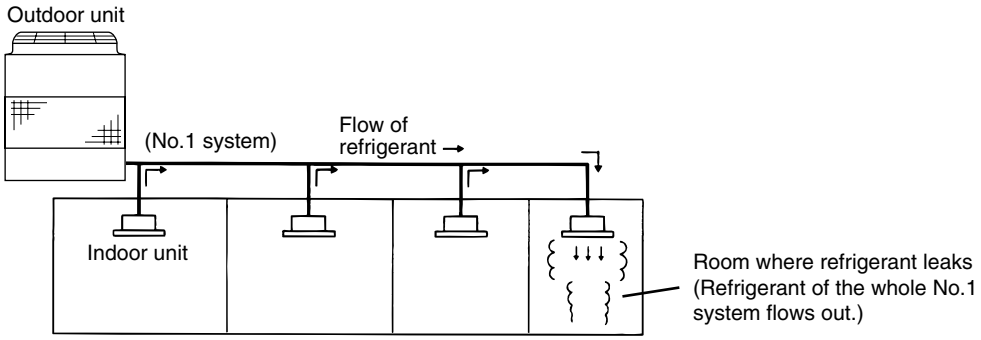
3.1 Introduction

Though the R410A refrigerant is harmless and incombustible itself , the room to equip the air conditioner should be large to such an extent that the refrigerant gas will not exceed the limiting concentration even if the refrigerant gas leaks in the room.

• Limiting concentration

Limiting concentration is the limit of Freon gas concentration where immediate measures can be taken without hurting human body when refrigerant leaks in the air. The limiting concentration shall be described in the unit of kg/m^3 (Freon gas weight in /m^3 air) for facilitating calculation.

Limiting concentration: 0.30kg/m^3(R410A) **(ISO5149, EN378-1)**



3.2 Checking procedure of limiting concentration

Check limiting concentration following step ①~④, and take appropriate measure depending on the situation.

3.2.1 Calculate amount of all the replenished refrigerant (kg) per each refrigerant system.

Amount of replenished refrigerant per one outdoor unit system + Amount of additional replenished refrigerant = Total amount of replenished refrigerant in refrigerant facility (kg)

Amount of replenished refrigerant at factory shipment

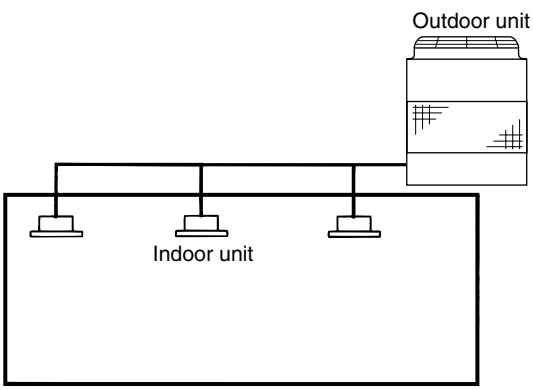
Amount of additionally replenished refrigerant depending on piping length or piping diameter at customer

Note : In case one refrigerant facility is divided into 2 or more refrigerant systems and each system is independent, amount of replenished refrigerant of each system shall be adopted.

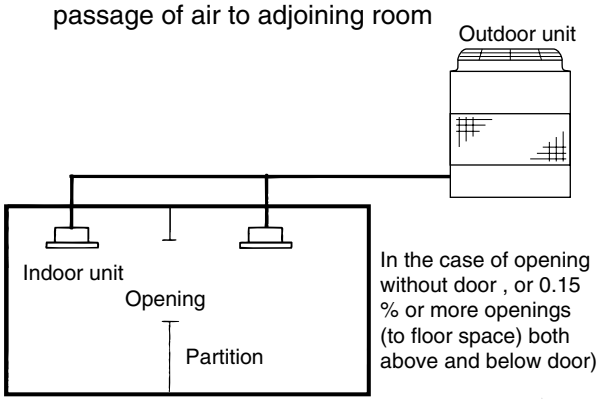
3.2.2 Calculate minimum room capacity.

Calculate room capacity by regarding □ portion as one room or the smaller room.

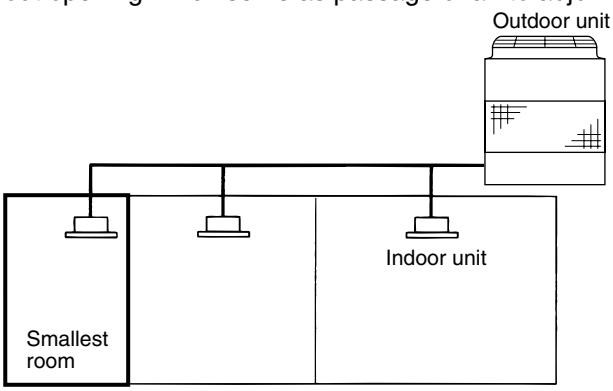
3.2.2.1 Without partition



3.2.2.2 With partition and with opening which serve as passage of air to adjoining room



3.2.2.3 With partition and without opening which serve as passage of air to adjoining room



3.2.3 Calculate refrigerant concentration

$$\frac{\text{Total amount of replenished refrigerant in refrigerant facility (kg)}}{\text{Capacity of smallest room where indoor unit is installed (m}^3\text{)}} = \text{Refrigerant concentration (kg/m}^3\text{)}$$

(R410A)

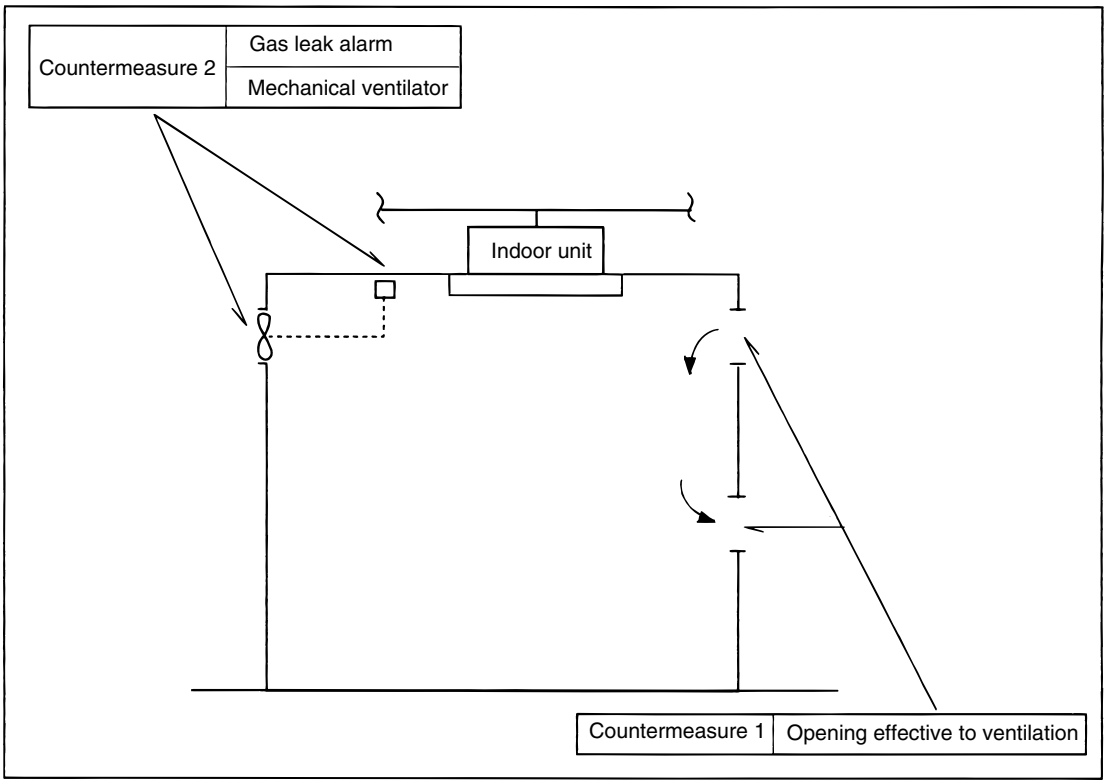
In case the result of calculation exceeds the limiting concentration, perform the same calculations by shifting to the second smallest, and the third smallest rooms until at last the result is below the limiting concentration.

3.2.4 In case limiting concentration is exceed

When limiting concentration is exceeded, change original plan or take one of the countermeasures shown below:

- Countermeasure 1
  Provide opening for ventilation.
  Provide 0.15% or more opening to floor space both above and below door, or provide opening without door.

- Countermeasure 2
  Provide gas leak alarm linked with mechanical ventilator.



Pay a special attention to the place, such as a basement, etc. where refrigerant can stay, since refrigerant is heavier than air.

CITY MULTI™ DATA BOOK R410A Series

2004

MITSUBISHI ELECTRIC CORPORATION
HEAD OFFICE: MITSUBISHI DENKI BLDG., 2-2-3, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN

Issued in Sep. 2004 MEE04K250
Printed in Japan

New publication effective Sep. 2004.
Specifications subject to change without notice.