AIR CONDITIONING SYSTEMS

CITY MULTI

DATA BOOK

MODEL

PEFY-M-VMA(L)-A
CONTENTS

PEFY-M-VMA(L)-A

1. SPECIFICATIONS ................................................................. 2
2. EXTERNAL DIMENSIONS .......................................................... 6
3. CENTER OF GRAVITY .............................................................. 16
4. ELECTRICAL WIRING DIAGRAMS ........................................... 17
5. SOUND LEVELS ......................................................................... 18
   5-1. Sound levels ........................................................................ 18
   5-2. NC curves ........................................................................... 19
6. FAN CHARACTERISTICS CURVES ......................................... 23
7. CAPACITY TABLES ................................................................. 32
   7-1. Correction by fan speed ....................................................... 32
8. ELECTRICAL CHARACTERISTICS .......................................... 33
9. OPTIONAL PARTS ...................................................................... 34
   9-1. Optional parts line up for the Indoor unit ............................... 34
   9-2. Filter box ........................................................................... 34
1. SPECIFICATIONS

**Ceiling concealed (Medium static pressure type)**

### SPECIFICATIONS

#### Heat exchanger
- Cross fin (Aluminum fin and copper tube)
- Net weight kg (lbs): 21 (47) 21 (47) 21 (47) 25 (56)

#### Sound pressure level
- Measured in anechoic room with a 2 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit.
- Refer to "Fan characteristics curves" in the DATA BOOK for the usable range of air flow rate.

#### Refrigerant piping
- Liquid: mm (in.) 6.35 (1/4)Brazed 6.35 (1/4)Brazed 6.35 (1/4)Brazed 6.35 (1/4)Brazed
- Gas: mm (in.) 12.7 (1/2)Brazed 12.7 (1/2)Brazed 12.7 (1/2)Brazed 12.7 (1/2)Brazed

#### Power source
- 1-phase 220-230-240 V 50 Hz

#### Refrigerant control device
- LEV

#### Protection device
- Fuse

#### Field drain pipe size
- O.D.32 (1-1/4"

#### Driving mechanism
- Direct-driven by motor

#### Motor output
- kW: 0.085 0.085 0.085 0.121

#### Motor Type
- DC motor

### Model
- PEFY-M20VMA-A
- PEFY-M25VMA-A
- PEFY-M32VMA-A
- PEFY-M40VMA-A

#### External dimension H x W x D mm
- 250 x 700 x 732 250 x 700 x 732 250 x 700 x 732 250 x 900 x 732

#### External Finish
- Galvanized steel plate

#### Fan Type x Quantity
- Sirocco fan x 1

#### Refrigerant cycle
- R32, R410A CITY MULTI

### Notes
- Due to continuing improvement, above specifications may be subject to change without notice.
- Subject to rounding variation.
- Unit converter
- lbs = kg/0.4536
- cfm = m³/min x 35.31
- BTU/h = kW x 3,412
- kcal = kW x 860

---

**All specifications subject to change without notice.**
# 1. SPECIFICATIONS

**Ceiling concealed (Medium static pressure type)**

<table>
<thead>
<tr>
<th>Model</th>
<th>PEFY-M50VMA-A</th>
<th>PEFY-M63VMA-A</th>
<th>PEFY-M71VMA-A</th>
<th>PEFY-M80VMA-A</th>
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<tbody>
<tr>
<td><strong>Power source</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Power input</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>0.08 A</td>
<td>0.08 A</td>
<td>0.08 A</td>
<td>0.08 A</td>
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<tr>
<td></td>
<td>0.07 A</td>
<td>0.07 A</td>
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<td>0.06 A</td>
<td>0.06 A</td>
<td>0.06 A</td>
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<tr>
<td><strong>External static pressure</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pa</td>
<td>Pa</td>
<td>Pa</td>
<td>Pa</td>
</tr>
<tr>
<td></td>
<td>35 - &lt;50&gt; - &lt;70&gt; - &lt;100&gt;</td>
<td>35 - &lt;50&gt; - &lt;70&gt; - &lt;100&gt;</td>
<td>35 - &lt;50&gt; - &lt;70&gt; - &lt;100&gt;</td>
<td>35 - &lt;50&gt; - &lt;70&gt; - &lt;100&gt;</td>
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<tr>
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<td>40 - &lt;50&gt; - &lt;70&gt; - &lt;100&gt;</td>
<td>40 - &lt;50&gt; - &lt;70&gt; - &lt;100&gt;</td>
<td>40 - &lt;50&gt; - &lt;70&gt; - &lt;100&gt;</td>
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<tr>
<td></td>
<td>45 - &lt;50&gt; - &lt;70&gt; - &lt;100&gt;</td>
<td>45 - &lt;50&gt; - &lt;70&gt; - &lt;100&gt;</td>
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<td>kW</td>
<td>kW</td>
<td>kW</td>
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<tr>
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<td>0.121</td>
<td>0.121</td>
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<td><strong>Motor Type</strong></td>
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<td>DC motor</td>
<td>DC motor</td>
<td>DC motor</td>
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<td>Fuse</td>
<td>Fuse</td>
<td>Fuse</td>
<td>Fuse</td>
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<tr>
<td><strong>Rearguard control device</strong></td>
<td>TXD</td>
<td>TXD</td>
<td>TXD</td>
<td>TXD</td>
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<tr>
<td><strong>Connectable outdoor unit</strong></td>
<td>R2, R410A CITY MULTI</td>
<td>R2, R410A CITY MULTI</td>
<td>R2, R410A CITY MULTI</td>
<td>R2, R410A CITY MULTI</td>
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<tr>
<td><strong>Refrigerant piping</strong></td>
<td>Liquid</td>
<td>m</td>
<td>m</td>
<td>m</td>
</tr>
<tr>
<td></td>
<td>6.35 (1/4)</td>
<td>6.35 (1/4)</td>
<td>6.35 (1/4)</td>
<td>6.35 (1/4)</td>
</tr>
<tr>
<td><strong>Field drain pipe size</strong></td>
<td>mm</td>
<td>O.D.32 (1-1/4&quot;)</td>
<td>O.D.32 (1-1/4&quot;)</td>
<td>O.D.32 (1-1/4&quot;)</td>
</tr>
<tr>
<td><strong>Fan</strong></td>
<td>Sirocco fan x 2</td>
<td>Sirocco fan x 2</td>
<td>Sirocco fan x 2</td>
<td>Sirocco fan x 2</td>
</tr>
<tr>
<td><strong>Unit converter</strong></td>
<td>kW = BTU/h x 0.3048</td>
<td>kW = BTU/h x 0.3048</td>
<td>kW = BTU/h x 0.3048</td>
<td>kW = BTU/h x 0.3048</td>
</tr>
</tbody>
</table>

**Notes:**
1. Nominal cooling conditions:
   - Indoor: 25°CDB/19°CWB
   - Outdoor: 35°CDB/24°CWB
2. Nominal heating conditions:
   - Indoor: 20°CDB/16°CWB
   - Outdoor: 7°CDB/6°CWB
3. The air flow rate is measured in an anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit.
4. The sound pressure level is measured by the conventional method in JIS.
5. * Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Instruction Manual.
6. * Due to continuing improvement, above specifications may be subject to change without notice.

**Table Conversion:**
- CFM = m³/min x 35.31
- BTU/h = kW x 3,412
- kcal = kW x 860

**Dimensions:**
- PEFY-M-VMA(L)-A
## 1. SPECIFICATIONS

### Ceiling concealed (Medium static pressure type)

<table>
<thead>
<tr>
<th>Model</th>
<th>PEFY-M100VMA-A</th>
<th>PEFY-M125VMA-A</th>
<th>PEFY-M140VMA-A</th>
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<tbody>
<tr>
<td><strong>Power source</strong></td>
<td>1-phase 220-230-240 V 50 Hz</td>
<td>1-phase 220-230-240 V 50 Hz</td>
<td>1-phase 220-230-240 V 50 Hz</td>
</tr>
<tr>
<td><strong>Power input</strong></td>
<td>kW</td>
<td>kW</td>
<td>kW</td>
</tr>
<tr>
<td>1.0</td>
<td>1.0</td>
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<td>1</td>
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<td>1</td>
<td></td>
</tr>
<tr>
<td>0.142</td>
<td>0.199</td>
<td>0.208</td>
<td></td>
</tr>
<tr>
<td>0.142</td>
<td>0.199</td>
<td>0.208</td>
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</tr>
<tr>
<td><strong>Current input</strong></td>
<td>A</td>
<td>A</td>
<td>A</td>
</tr>
<tr>
<td>1.01-0.97-0.93</td>
<td>1.29-1.23-1.18</td>
<td>1.40-1.34-1.28</td>
<td></td>
</tr>
<tr>
<td><strong>Cooling capacity</strong></td>
<td>kW</td>
<td>kW</td>
<td>kW</td>
</tr>
<tr>
<td>(Nominal)</td>
<td>9.800</td>
<td>12.000</td>
<td>13.800</td>
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<tr>
<td>Power input</td>
<td>kW</td>
<td>kW</td>
<td>kW</td>
</tr>
<tr>
<td>0.142</td>
<td>0.199</td>
<td>0.208</td>
<td></td>
</tr>
<tr>
<td><strong>Cooling capacity</strong></td>
<td>kcal/h</td>
<td>kcal/h</td>
<td>kcal/h</td>
</tr>
<tr>
<td>(Nominal)</td>
<td>9,600</td>
<td>12,000</td>
<td>13,800</td>
</tr>
<tr>
<td><strong>Cooling capacity</strong></td>
<td>BTU/h</td>
<td>BTU/h</td>
<td>BTU/h</td>
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<td>(Nominal)</td>
<td>38,200</td>
<td>47,800</td>
<td>54,600</td>
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<tr>
<td><strong>Heating capacity</strong></td>
<td>kW</td>
<td>kW</td>
<td>kW</td>
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<tr>
<td>(Nominal)</td>
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<td>18.0</td>
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<tr>
<td><strong>Heating capacity</strong></td>
<td>kcal/h</td>
<td>kcal/h</td>
<td>kcal/h</td>
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<td>(Nominal)</td>
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<td><strong>Heating capacity</strong></td>
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<td>BTU/h</td>
<td>BTU/h</td>
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<td>42,700</td>
<td>54,600</td>
<td>61,400</td>
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<tr>
<td><strong>External finish</strong></td>
<td>Galvanized steel plate</td>
<td>Galvanized steel plate</td>
<td>Galvanized steel plate</td>
</tr>
<tr>
<td><strong>External dimension</strong></td>
<td>H x W x D mm</td>
<td>H x W x D mm</td>
<td>H x W x D mm</td>
</tr>
<tr>
<td></td>
<td>250 x 1,400 x 732</td>
<td>250 x 1,400 x 732</td>
<td>250 x 1,600 x 732</td>
</tr>
<tr>
<td></td>
<td>9-7/8 x 55-1/8 x 28-7/8</td>
<td>9-7/8 x 55-1/8 x 28-7/8</td>
<td>9-7/8 x 63 x 28-7/8</td>
</tr>
<tr>
<td><strong>Net weight</strong></td>
<td>kg (lbs)</td>
<td>kg (lbs)</td>
<td>kg (lbs)</td>
</tr>
<tr>
<td></td>
<td>37 (82)</td>
<td>38 (84)</td>
<td>42 (93)</td>
</tr>
<tr>
<td><strong>Heat exchanger</strong></td>
<td>Cross fin (Aluminum fin and copper tube)</td>
<td>Cross fin (Aluminum fin and copper tube)</td>
<td>Cross fin (Aluminum fin and copper tube)</td>
</tr>
<tr>
<td><strong>Fan type and quantity</strong></td>
<td>Sirocco fan x 3</td>
<td>Sirocco fan x 3</td>
<td>Sirocco fan x 3</td>
</tr>
<tr>
<td><strong>External static pressure</strong></td>
<td>Pa</td>
<td>Pa</td>
<td>Pa</td>
</tr>
<tr>
<td></td>
<td>40 - &lt;50&gt; - &lt;70&gt; - &lt;100&gt; - &lt;150&gt;</td>
<td>&lt;40&gt; - 50 - &lt;70&gt; - &lt;100&gt; - &lt;150&gt;</td>
<td>&lt;40&gt; - 50 - &lt;70&gt; - &lt;100&gt; - &lt;150&gt;</td>
</tr>
<tr>
<td><strong>Sound pressure level (measured in anechoic room)</strong></td>
<td>dB &lt;A&gt;</td>
<td>dB &lt;A&gt;</td>
<td>dB &lt;A&gt;</td>
</tr>
<tr>
<td></td>
<td>30.0-35.0-38.0</td>
<td>34.0-38.0-40.0</td>
<td>30.0-34.0-37.0</td>
</tr>
<tr>
<td><strong>Insulation material</strong></td>
<td>EPS, Polyethylene foam, Urethane foam</td>
<td>EPS, Polyethylene foam, Urethane foam</td>
<td>EPS, Polyethylene foam, Urethane foam</td>
</tr>
<tr>
<td><strong>Air filter</strong></td>
<td>PP honeycomb fabric</td>
<td>PP honeycomb fabric</td>
<td>PP honeycomb fabric</td>
</tr>
<tr>
<td><strong>Protection device</strong></td>
<td>Fuse</td>
<td>Fuse</td>
<td>Fuse</td>
</tr>
<tr>
<td><strong>Refrigerant control device</strong></td>
<td>LEV</td>
<td>LEV</td>
<td>LEV</td>
</tr>
<tr>
<td><strong>Connectable outdoor unit</strong></td>
<td>R32, R410A CITY MULTI</td>
<td>R32, R410A CITY MULTI</td>
<td>R32, R410A CITY MULTI</td>
</tr>
<tr>
<td><strong>Refrigerant piping diameter</strong></td>
<td>mm (in.)</td>
<td>mm (in.)</td>
<td>mm (in.)</td>
</tr>
<tr>
<td>Liquid</td>
<td>9.52 (3/8)</td>
<td>9.52 (3/8)</td>
<td>9.52 (3/8)</td>
</tr>
<tr>
<td>Gas</td>
<td>15.88 (5/8)</td>
<td>15.88 (5/8)</td>
<td>15.88 (5/8)</td>
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<tr>
<td><strong>Field drain pipe size</strong></td>
<td>mm (in.)</td>
<td>mm (in.)</td>
<td>mm (in.)</td>
</tr>
<tr>
<td></td>
<td>O.D.32 (1-1/4&quot;)</td>
<td>O.D.32 (1-1/4&quot;)</td>
<td>O.D.32 (1-1/4&quot;)</td>
</tr>
<tr>
<td><strong>Wiring</strong></td>
<td>KB94C15Y</td>
<td>KB94C15Y</td>
<td>KB94C15Y</td>
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<tr>
<td><strong>Refrigerant cycle</strong></td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td><strong>Coolant</strong></td>
<td>Water, Glycol, Water, Glycol, Water, Glycol</td>
<td>Water, Glycol, Water, Glycol, Water, Glycol</td>
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<tr>
<td><strong>Optional parts</strong></td>
<td>Filter box PAC-KE94TB-E</td>
<td>Filter box PAC-KE94TB-E</td>
<td>Filter box PAC-KE94TB-E</td>
</tr>
</tbody>
</table>

### Notes

1. Nominal cooling conditions
   - Indoor: 27°C (81°F) DB/19°C (66°F) WB
   - Outdoor: 35°C (95°F) DB
   - Pipe length: 7.5 m (24-9/16 ft.)
   - Level difference: 0 m (0 ft.)

2. Nominal heating conditions
   - Indoor: 20°C (68°F) DB
   - Outdoor: 7°C (45°F) DB/6°C (43°F) WB
   - Pipe length: 7.5 m (24-9/16 ft.)
   - Level difference: 0 m (0 ft.)

3. The factory setting of airflow mode and external static pressure mode is shown without < >.
   - Refer to the "Fan characteristics curves" in DATA BOOK for the usable range of air flow rate.

4. Measured in anechoic room with a 2 m inlet duct and 2 m outlet duct attached to the unit and 1.5 m below the unit.

5. Measured in anechoic room with a 1 m inlet duct and 2 m outlet duct attached to the unit and 1.5 m below the unit.

6. The sound pressure level measured by the conventional method in JIS.

7. R32 is flammable, and certain restrictions apply to the installation of units.

### Unit converter

<table>
<thead>
<tr>
<th>1 kcal</th>
<th>1 BTU/h</th>
<th>1 cfm</th>
<th>1 lb</th>
<th>1 mmH2O</th>
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</thead>
<tbody>
<tr>
<td>0.86</td>
<td>3.41</td>
<td>35.31</td>
<td>0.4536</td>
<td>0.0361</td>
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</tbody>
</table>

### Remarks

- Units are subject to rounding variation.
- Due to continuing improvements, specifications may be subject to change without notice.
- Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.
- Units are subject to change without notice.
### 1. SPECIFICATIONS

#### Ceiling concealed (Medium static pressure type)

<table>
<thead>
<tr>
<th>Model</th>
<th>PEFY-M60V-W A</th>
<th>PEFY-M62V-W A</th>
<th>PEFY-M65V-W A</th>
<th>PEFY-M80V-W A</th>
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<tbody>
<tr>
<td><strong>Cooling capacity</strong></td>
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</tr>
<tr>
<td>(Nominal)</td>
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<tr>
<td>(Low-Mid-High)</td>
<td>2.3</td>
<td>2.5</td>
<td>2.8</td>
<td>3.2</td>
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<tr>
<td>(Low-Mid-High)</td>
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<td>2.4</td>
<td>2.6</td>
<td>3.0</td>
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<td><strong>Power input</strong></td>
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<td>(Nominal)</td>
<td>1.00</td>
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<td>3.10</td>
<td>3.90</td>
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<td>(Low-Mid-High)</td>
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<td>2.29</td>
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<tr>
<td>Cross fin (Aluminum fin and copper tube)</td>
<td>2.5</td>
<td>2.8</td>
<td>3.2</td>
<td>3.8</td>
</tr>
<tr>
<td>Net weight kg (lbs)</td>
<td>20 (45)</td>
<td>20 (45)</td>
<td>20 (45)</td>
<td>24 (53)</td>
</tr>
<tr>
<td><strong>Heat exchanger</strong></td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Cross fin (Aluminum fin and copper tube)</td>
<td>2.5</td>
<td>2.8</td>
<td>3.2</td>
<td>3.8</td>
</tr>
<tr>
<td>Net weight kg (lbs)</td>
<td>20 (45)</td>
<td>20 (45)</td>
<td>20 (45)</td>
<td>24 (53)</td>
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<td><strong>Noise</strong></td>
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<tr>
<td>Sound pressure level (measured in anechoic room)</td>
<td>67 &lt; A &gt;</td>
<td>70 &lt; A &gt;</td>
<td>73 &lt; A &gt;</td>
<td>77 &lt; A &gt;</td>
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<tr>
<td><strong>Insulation material</strong></td>
<td>EPS, Polyurethane foam, Urethane foam</td>
<td>EPS, Polyurethane foam, Urethane foam</td>
<td>EPS, Polyurethane foam, Urethane foam</td>
<td>EPS, Polyurethane foam, Urethane foam</td>
</tr>
<tr>
<td><strong>Air flow rate</strong></td>
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<tr>
<td>(Low-Mid-High)</td>
<td>212 - 265 - 300</td>
<td>212 - 265 - 300</td>
<td>265 - 318 - 371</td>
<td>353 - 424 - 494</td>
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<td>(Low-Mid-High)</td>
<td>100 - 125 - 142</td>
<td>100 - 125 - 142</td>
<td>125 - 150 - 175</td>
<td>167 - 200 - 233</td>
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<tr>
<td><strong>Motor output kW</strong></td>
<td>0.085</td>
<td>0.085</td>
<td>0.085</td>
<td>0.121</td>
</tr>
<tr>
<td><strong>Motor type</strong></td>
<td>DC motor</td>
<td>DC motor</td>
<td>DC motor</td>
<td>DC motor</td>
</tr>
<tr>
<td><strong>Protection device</strong></td>
<td>Fuse</td>
<td>Fuse</td>
<td>Fuse</td>
<td>Fuse</td>
</tr>
<tr>
<td><strong>Air filter</strong></td>
<td>PP honeycomb fabric</td>
<td>FP honeycomb fabric</td>
<td>PP honeycomb fabric</td>
<td>FP honeycomb fabric</td>
</tr>
</tbody>
</table>

### Notes:

- Nominal cooling conditions:
  - Indoor: 27°C DB (80°FDB), 20°C WB (68°FWB)
  - Outdoor: 35°C DB (95°FDB), 25°C WB (77°FWB)
- **Pipe length:** 2 m (6.6 ft)
- **Refrigerant:** R32, R410A
- **Pressure:** Medium static pressure
- **Sound pressure level:** Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit.
- **Motor output:** Measured in anechoic room with 2 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit.
- **Air flow rate:** Measured in anechoic room with 2 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit.
- **Motor type:** DC motor
- **Protection device:** Fuse
- **Air filter:** PP honeycomb fabric
- **Motor output kW:** 0.085
- **Motor type:** DC motor
- **Protection device:** Fuse
- **Air filter:** PP honeycomb fabric
- **Motor output kW:** 0.085
- **Motor type:** DC motor
- **Protection device:** Fuse
- **Air filter:** PP honeycomb fabric

### General Notes:

- Nominal cooling conditions:
  - Indoor: 27°C DB (80°FDB), 20°C WB (68°FWB)
  - Outdoor: 35°C DB (95°FDB), 25°C WB (77°FWB)
- **Pipe length:** 2 m (6.6 ft)
- **Refrigerant:** R32, R410A
- **Pressure:** Medium static pressure
- **Sound pressure level:** Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit.
- **Motor output kW:** 0.085
- **Motor type:** DC motor
- **Protection device:** Fuse
- **Air filter:** PP honeycomb fabric

### Calculations:

- **Energy Efficiency Ratio (EER):** For calculation details, refer to the section in the Databook on installation restrictions.
- **Refrigerant:** R32 is flammable, and certain restrictions apply to the installation of units.
- **Sound pressure level:** Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit.
- **Motor output kW:** Measured in anechoic room with 2 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit.
- **Air flow rate:** Measured in anechoic room with 2 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit.
- **Motor type:** DC motor
- **Protection device:** Fuse
- **Air filter:** PP honeycomb fabric

### Conversion:

- **BTU/h to kW:** BTU/h = kW x 3.412
- **CFM to m³/min:** CFM = m³/min x 0.0167
- **Kg to lbs:** Kg = lbs x 0.4536
- **W to BTU/h:** W = BTU/h x 3.412

### Additional Information:

- **Field drain pipe size:** O.D. 32 (1 1/4"")
- **Wiring:** KB94C15X
- **Refrigerant control device:** LEV
- **Protection device:** Fuse
- **Motor output kW:** 0.085
- **Motor type:** DC motor
- **Protection device:** Fuse
- **Air filter:** PP honeycomb fabric

### Accessory:

- **Washer, Drain hose, Tie band:** Washer, Drain hose, Tie band

### References:

- **List of functions:** Includes duct work, fan installation, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.
- **Due to continuing improvement, above specifications may be subject to change without notice.**
# 1. SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>PEFY-M50VMAL-A</th>
<th>PEFY-M63VMAL-A</th>
<th>PEFY-M71VMAL-A</th>
<th>PEFY-M80VMAL-A</th>
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<tr>
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<td>CEILING CONCEALED (Medium static pressure type)</td>
<td>CEILING CONCEALED (Medium static pressure type)</td>
<td>CEILING CONCEALED (Medium static pressure type)</td>
<td>CEILING CONCEALED (Medium static pressure type)</td>
</tr>
<tr>
<td>Cooling capacity (Nominal)</td>
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<td>7.0</td>
<td>8.0</td>
<td>9.0</td>
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<td>0.090</td>
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<td>R32, R410A CITY MULTI</td>
<td>R32, R410A CITY MULTI</td>
<td>R32, R410A CITY MULTI</td>
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<td>Direct-driven by motor</td>
<td>Direct-driven by motor</td>
<td>Direct-driven by motor</td>
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<td>Motor Type</td>
<td>DC motor</td>
<td>DC motor</td>
<td>DC motor</td>
<td>DC motor</td>
</tr>
<tr>
<td>Motor output kW</td>
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<td>0.157</td>
<td>0.157</td>
<td>0.157</td>
</tr>
<tr>
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<td>5.0</td>
<td>5.0</td>
<td>5.0</td>
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<td>Accessories</td>
<td>Washer, Drain hose, Tie band</td>
<td>Washer, Drain hose, Tie band</td>
<td>Washer, Drain hose, Tie band</td>
<td>Washer, Drain hose, Tie band</td>
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<tr>
<td>Refrigerant pipe size mm</td>
<td>O.D.32 (1-1/4&quot;)</td>
<td>O.D.32 (1-1/4&quot;)</td>
<td>O.D.32 (1-1/4&quot;)</td>
<td>O.D.32 (1-1/4&quot;)</td>
</tr>
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<td>Refrigerant piping Liquid</td>
<td>6.35 (1/4&quot;)Brazed</td>
<td>9.52 (3/8&quot;)Brazed</td>
<td>9.52 (3/8&quot;)Brazed</td>
<td>9.52 (3/8&quot;)Brazed</td>
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<td>Power source</td>
<td>CEILING CONCEALED (Medium static pressure type)</td>
<td>CEILING CONCEALED (Medium static pressure type)</td>
<td>CEILING CONCEALED (Medium static pressure type)</td>
<td>CEILING CONCEALED (Medium static pressure type)</td>
</tr>
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<td>Heating capacity (Nominal)</td>
<td>35 - &lt;50&gt; - &lt;70&gt; - &lt;100&gt; -</td>
<td>40 - &lt;50&gt; - &lt;70&gt; - &lt;100&gt; -</td>
<td>40 - &lt;50&gt; - &lt;70&gt; - &lt;100&gt; -</td>
<td>40 - &lt;50&gt; - &lt;70&gt; - &lt;100&gt; -</td>
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<tr>
<td>Power input kW</td>
<td>0.064</td>
<td>0.085</td>
<td>0.078</td>
<td>0.078</td>
</tr>
<tr>
<td>Current input A</td>
<td>0.53-0.51-0.49</td>
<td>0.69-0.66-0.63</td>
<td>0.60-0.57-0.55</td>
<td>0.60-0.57-0.55</td>
</tr>
<tr>
<td>External dimensions H x W x D mm</td>
<td>230 x 920 x 732</td>
<td>251 x 910 x 732</td>
<td>251 x 1,100 x 732</td>
<td>251 x 1,100 x 732</td>
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<td>Net weight Kg</td>
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<td>24.0-31.0-34.0</td>
<td>27.0-31.0-35.0</td>
<td>27.0-31.0-35.0</td>
</tr>
<tr>
<td>Refrigerant piping Liquid</td>
<td>6.35 (1/4&quot;)Brazed</td>
<td>9.52 (3/8&quot;)Brazed</td>
<td>9.52 (3/8&quot;)Brazed</td>
<td>9.52 (3/8&quot;)Brazed</td>
</tr>
<tr>
<td>Refrigerant piping Copper</td>
<td>13.6 (1/2&quot;)Sweat</td>
<td>15.9 (5/8&quot;)Sweat</td>
<td>15.9 (5/8&quot;)Sweat</td>
<td>15.9 (5/8&quot;)Sweat</td>
</tr>
<tr>
<td>Refrigerant piping Copper</td>
<td>13.6 (1/2&quot;)Sweat</td>
<td>15.9 (5/8&quot;)Sweat</td>
<td>15.9 (5/8&quot;)Sweat</td>
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<td>15.9 (5/8&quot;)Sweat</td>
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<td>15.9 (5/8&quot;)Sweat</td>
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<tr>
<td>Refrigerant piping Copper</td>
<td>13.6 (1/2&quot;)Sweat</td>
<td>15.9 (5/8&quot;)Sweat</td>
<td>15.9 (5/8&quot;)Sweat</td>
<td>15.9 (5/8&quot;)Sweat</td>
</tr>
<tr>
<td>Refrigerant piping Copper</td>
<td>13.6 (1/2&quot;)Sweat</td>
<td>15.9 (5/8&quot;)Sweat</td>
<td>15.9 (5/8&quot;)Sweat</td>
<td>15.9 (5/8&quot;)Sweat</td>
</tr>
</tbody>
</table>

*Due to continuing improvement, above specifications may be subject to change without notice.

---

**Notes:**
1. Nominal cooling conditions:
   - Indoor: 27°C DB/19°C WB (80°FDB/66°FWB)
   - Outdoor: 35°C DB (95°FDB)
   - Pipe length: 7.5m (24-9/16ft.)
   - Level difference: 0m (0ft.)
2. Nominal heating conditions:
   - Indoor: 19°C DB/15°C WB (66°FWB/59°FWB)
   - Outdoor: 7°C DB (45°FDB)
   - Pipe length: 7.5m (24-9/16ft.)
   - Level difference: 0m (0ft.)
3. The factory setting of airflow mode and external static pressure mode is shown without < >.
4. The sound pressure level measured by the conventional method in JIS.
5. Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit.
6. The sound pressure level measured by the conventional method in JIS.
7. The sound pressure level measured by the conventional method in JIS.

---

**Unit converter:**
- BTU/h = kW x 3.412
- kcal = kW x 860
- kg = lbs / 0.4536
- m³/min = cfm / 35.31

---

**Table:**
- Fan characteristics curves, according to the external static pressure, in DATA BOOK for the usable range of air flow rate.
- Refrigerant piping:
  - Copper tubing: 13.6 (1/2") Sweat, 15.9 (5/8") Sweat
  - Copper tubing: 13.6 (1/2") Sweat, 15.9 (5/8") Sweat
  - Copper tubing: 13.6 (1/2") Sweat, 15.9 (5/8") Sweat
  - Copper tubing: 13.6 (1/2") Sweat, 15.9 (5/8") Sweat
# 1. SPECIFICATIONS

## Ceiling concealed (Medium static pressure type)

<table>
<thead>
<tr>
<th>Model</th>
<th>PEFY-M100VMAL-A</th>
<th>PEFY-M125VMAL-A</th>
<th>PEFY-M140VMAL-A</th>
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<tbody>
<tr>
<td><strong>Power source</strong></td>
<td>1-phase 220-230-240 V 50 Hz</td>
<td>1-phase 220-230-240 V 50 Hz</td>
<td>1-phase 220-230-240 V 50 Hz</td>
</tr>
<tr>
<td><strong>Cooling capacity (Nominal)</strong></td>
<td>11.2 kW</td>
<td>14.0 kW</td>
<td>16.0 kW</td>
</tr>
<tr>
<td></td>
<td>9,600 kcal/h</td>
<td>12,000 kcal/h</td>
<td>13,800 kcal/h</td>
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<tr>
<td></td>
<td>38,200 BTU/h</td>
<td>47,800 BTU/h</td>
<td>54,600 BTU/h</td>
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<td><strong>Power input</strong></td>
<td>0.140 kW</td>
<td>0.197 kW</td>
<td>0.206 kW</td>
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<td><strong>Current input</strong></td>
<td>1.01-0.97-0.93 A</td>
<td>1.29-1.23-1.18 A</td>
<td>1.40-1.34-1.28 A</td>
</tr>
<tr>
<td><strong>Heating capacity (Nominal)</strong></td>
<td>12.5 kW</td>
<td>16.0 kW</td>
<td>18.0 kW</td>
</tr>
<tr>
<td></td>
<td>10,800 kcal/h</td>
<td>13,800 kcal/h</td>
<td>15,500 kcal/h</td>
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<tr>
<td></td>
<td>42,700 BTU/h</td>
<td>54,600 BTU/h</td>
<td>61,400 BTU/h</td>
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<tr>
<td><strong>Power input</strong></td>
<td>0.140 kW</td>
<td>0.197 kW</td>
<td>0.206 kW</td>
</tr>
<tr>
<td><strong>Current input</strong></td>
<td>1.01-0.97-0.93 A</td>
<td>1.29-1.23-1.18 A</td>
<td>1.40-1.34-1.28 A</td>
</tr>
</tbody>
</table>

### External finish
- Galvanized steel plate

### External dimension
- H x W x D mm: 250 x 1,400 x 732
- H x W x D in.: 9-7/8 x 55-1/8 x 28-7/8

### Net weight
- kg (lbs): 36 (80) | 37 (82) | 41 (91)

### Heat exchanger
- Cross fin (Aluminum fin and copper tube)

### Motor Type
- DC motor

### Motor output
- kW: 0.300

### Driving mechanism
- Direct-driven by motor

### Air flow rate
- (Low-Mid-High)
  - m³/min: 23.0 - 28.0 - 32.0
  - L/s: 383 - 467 - 533
  - cfm: 812 - 989 - 1,130

### Sound pressure level (measured in anechoic room)
- (Low-Mid-High)
  - dB <A>: 30.0-35.0-38.0
  - 27.0-32.0-35.0

### Refrigerant control device
- LEV

### Connectable outdoor unit
- R32, R410A CITY MULTI

### Refrigerant piping
- Liquid diameter: 9.52 (3/8)Brazed
- Gas diameter: 15.88 (5/8)Brazed

### Field drain pipe size
- O.D. (inch): 32 (1-1/4"")

### Standard attachment
- Installation Manual, Instruction Book
- Installation Manual, Instruction Book
- Installation Manual, Instruction Book

### Optional parts
- Filter box PAC-KX4TB-E

### Remarks
- Due to continuing improvement, above specifications may be subject to change without notice.

**Notes:**
1. Nominal cooling conditions
2. Nominal heating conditions
3. Mechanical characteristics of airflow and external static pressure are shown without < >.
4. The factory setting of airflow mode and external static pressure mode is shown without < >.
5. Measured in anechoic room with a 2 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit.
6. Measured in anechoic room with a 2 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit.

**Unit converter:**
- kW = BTU/h x 0.3412
- BTU/h = kW x 3,412
- m³/min = L/s x 20.83
- kg = lbs x 0.4536

**Conversion factors:**
- kcal = kW x 860
- BTU/h = kW x 3,412
- m³/min = cfm x 35.31
- lbs = kg x 0.4536

**Above specification data is subject to rounding variation.**
2. EXTERNAL DIMENSIONS

Ceiling concealed (Medium static pressure type)

PEFY-M20, 25, 32, 40, 50, 63, 71, 80, 100, 125, 140VMA-A

Unit: mm

Maintenance access space

Secure enough access space to allow for the maintenance, inspection, and replacement of the motor, fan, drain pump, heat exchanger, and control box in one of the following ways. Select an installation site for the indoor unit so that its maintenance access space will not be obstructed by beams or other objects.

1. When a space of 300mm or more is available below the unit between the unit and the ceiling. (Fig.1)
   - Create access door 1 and 2 (450×450mm each) as shown in Fig.2.
   - Access door 2 is not required if enough space is available below the unit for a maintenance worker to work in.

2. When a space of less than 300mm is available below the unit between the unit and the ceiling.
   - At least 20mm of space should be left below the unit as shown in Fig.3.
   - Create access door 1 diagonally below the control box and access door 3 below the unit as shown in Fig.4.
   - or
   - Create access door 4 below the control box and the unit as shown in Fig.5.
2. EXTERNAL DIMENSIONS

Ceiling concealed (Medium static pressure type)

PEFY-M20, 25, 32, 40, 50, 63, 71, 80, 100, 125, 140VMA-A Suction filter box built-in-specification

Unit: mm

- Control box: 2×2-ø2.9
- Air outlet: 2×E-ø2.9
- Refrigerant piping: Brazing connection (gas)
- Drain pump: Terminal block (Power source)
- Drain pipe (O.D. ø32) (Spontaneous draining)
- Drain hose (I.D. ø32)
- Suspension bolt hole: 4-14×30 Slot
- Air inlet: 2×H-ø2.9
- Filter box

Note 1. Use M10 screw for the Suspension bolt (field supply).
2. Keep the service space for the maintenance at the bottom.
3. This chart indicates for PEFY-M71·80VMA-A models, which have 2 fans.
PEFY-M20·25·32VMA-A models have 1 fan.
PEFY-M40·50·63VMA-A models have 2 fans.
PEFY-M100·125·140VMA-A models have 3 fans.
4. Use air filter installed with indoor unit.

<table>
<thead>
<tr>
<th>Model</th>
<th>660</th>
<th>670</th>
<th>680</th>
<th>690</th>
<th>700</th>
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</thead>
</table>

- PAC-KE91TB-E: Model A
- PAC-KE92TB-E: Model B
- PAC-KE93TB-E: Model C
- PAC-KE94TB-E: Model D
- PAC-KE95TB-E: Model E

- Filter box

Note: Refer to the diagram for detailed dimensions and specifications.
2. EXTERNAL DIMENSIONS

Ceiling concealed (Medium static pressure type)

PEFY-M20, 25, 32, 40, 50, 63, 71, 80, 100, 125, 140VMA-A Suction filter box built-in specification

Unit: mm

<table>
<thead>
<tr>
<th>Model</th>
<th>K</th>
<th>L</th>
<th>P</th>
<th>M</th>
<th>N</th>
<th>P</th>
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<tbody>
<tr>
<td>PEFY-M20, 25, 32, 40, 50, 63, 71, 80, 100, 125, 140VMA-A</td>
<td>700</td>
<td>50~150</td>
<td>800</td>
<td>1300</td>
<td>900</td>
<td>150~250</td>
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</table>

In case of side maintenance for air filter.
2. EXTERNAL DIMENSIONS

Ceiling concealed (Medium static pressure type)

PEFY-M20, 25, 32, 40, 50, 63, 71, 80, 100, 125, 140VMAL-A

Unit: mm

Control box
2×2-ø2.9

Air outlet
2×E-ø2.9

Refrigerant piping
Brazing connection (liquid)
2

Brazing connection (gas)

Air Filter
Terminal block (Power source)
Terminal block (Transmission)

Drain pipe (O.D.ø32)

Suspension bolt hole
4-14×30 Slot

<Accessory>

Drain hose (I.D.ø32)(Actual length)

Note 1. Use M10 screw for the Suspension bolt (field supply).
2. Keep the service space for the maintenance at the bottom.
3. This chart indicates for PEFY-M71·80VMAL-A models, which have 2 fans. PEFY-M20·25·32VMAL-A models have 1 fan. PEFY-M40·50·63VMAL-A models have 2 fans. PEFY-M100·125·140VMAL-A models have 3 fans.
4. In case of the inlet duct is used, remove the air filter (supply with the unit), then install the filter (field supply) at suction side.

"remainder of the text is not fully visible or readable"
2. EXTERNAL DIMENSIONS

Ceiling concealed (Medium static pressure type)

PEFY-M20, 25, 32, 40, 50, 63, 71, 80, 100, 125, 140VMAL-A

Unit: mm

- Secure enough access space to allow for the maintenance, inspection, and replacement of the motor, the heat exchanger, and other parts of the unit. Be very careful with the installation of the units on or near objects.

(1) When space is available (300mm or more) between the unit and the ceiling, create access doors 1 and 2 (450×450mm each) as shown in Fig.2. (Access door 2 is not required if enough space is available below the unit for a maintenance worker to work in.)

(2) When space is less than 300mm, create access doors 3 and 4 below the control box and unit as shown in Fig.4 or Fig.5.

---

Fig.1 (Viewed from the direction of the arrow A)

Fig.2 (Viewed from the direction of the arrow B)

Intake air

Supply air

Access door 2 (450×450)

Access door 1 (450×450)

Control box

Maintenance access space

Ceiling beam

Bottom of indoor unit

Access door 3

Access door 4
2. EXTERNAL DIMENSIONS

Ceiling concealed (Medium static pressure type)

PEFY-M20, 25, 32, 40, 50, 63, 71, 80, 100, 125, 140VMAL-A Suction filter box built-in-specification

Unit: mm

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<thead>
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<th>Model</th>
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<th>40</th>
<th>50</th>
<th>63</th>
<th>71</th>
<th>80</th>
<th>100</th>
<th>125</th>
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<td>G (Duct)</td>
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<tr>
<td>A</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B (Suspension bolt pitch)</td>
<td>23</td>
<td>43</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>C</td>
<td>24</td>
<td>3</td>
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<td></td>
</tr>
<tr>
<td>Unit (mm)</td>
<td>1500</td>
<td>1300</td>
<td>1000</td>
<td>800</td>
<td>600</td>
<td>754</td>
<td>900</td>
<td>954</td>
<td>860</td>
<td>900</td>
</tr>
<tr>
<td>E</td>
<td>11</td>
<td></td>
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<td></td>
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<td>D</td>
<td>1060</td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>C</td>
<td>1100</td>
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<td></td>
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<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>B</td>
<td>1154</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note 1. Use M10 screw for the Suspension bolt (field supply).

2. Keep the service space for the maintenance at the bottom.

3. This chart indicates for PEFY-M71·80VMAL-A models, which have 2 fans. PEFY-M20·25·32VMAL-A models have 1 fan. PEFY-M40·50·63VMAL-A models have 2 fans. PEFY-M100·125·140VMAL-A models have 3 fans.

4. Use air filter installed with indoor unit.

---

MTSUS001 Electrical and Optical Equipment

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14
2. EXTERNAL DIMENSIONS

Ceiling concealed (Medium static pressure type)

PEFY-M20, 25, 32, 40, 50, 63, 71, 80, 100, 125, 140VMAL-A Suction filter box built-in-specification

Unit: mm

Suction filter box built-in-specification

* Dimension 'P' is in case of side maintenance for air filter.

<table>
<thead>
<tr>
<th>Model</th>
<th>Min.</th>
<th>450</th>
<th>50</th>
<th>628</th>
<th>853</th>
<th>960</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEFY-M20</td>
<td>50~150</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PEFY-M25</td>
<td>50~150</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PEFY-M32</td>
<td>50~150</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PEFY-M40</td>
<td>50~150</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PEFY-M50</td>
<td>50~150</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PEFY-M63</td>
<td>50~150</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PEFY-M71</td>
<td>50~150</td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PEFY-M80</td>
<td>50~150</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>PEFY-M100</td>
<td>50~150</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PEFY-M125</td>
<td>50~150</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PEFY-M140</td>
<td>50~150</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

More than 200

* In case of side maintenance for air filter.

Fig.1 (Viewed from the direction of the arrow A)

Fig.2

Fig.3

Fig.4 (Viewed from the direction of the arrow B)

Fig.5

Secure enough access space to allow for the maintenance, inspection, and replacement of the motor, fan, heat exchanger, and control box in one of the following ways.

(1) When a space of 300mm or more is available below the unit between the unit and the ceiling. (Fig.1)

· Create access door 1 and 2 (450×450mm each) as shown in Fig.2.

(Open door 2 is not required if enough space is available below the unit for a maintenance worker to work in.)

(2) When a space of less than 300mm is available below the unit between the unit and the ceiling.

(At least 20mm of space should be left below the unit as shown in Fig.3.)

· Create access door 1 diagonally below the control box and access door 3 below the unit as shown in Fig.4.

or

· Create access door 4 below the control box and the unit as shown in Fig.5.
3. CENTER OF GRAVITY

Ceiling concealed (Medium static pressure type)

Model name

<table>
<thead>
<tr>
<th>Model name</th>
<th>W</th>
<th>L</th>
<th>X</th>
<th>Y</th>
<th>Z</th>
</tr>
</thead>
</table>
4. ELECTRICAL WIRING DIAGRAMS

 Ceiling concealed (Medium static pressure type)

PEFY-M20, 25, 32, 40, 50, 63, 71, 80, 100, 125, 140VMA(L)-A

NOTE: 1. Symbols used in wiring diagram are
   Connector:       Terminal: (Heavy dotted line): Field wiring,
   2. Have all electric work done by a licensed electrician
      according to the local regulations.
   3. Earth leakage circuit breaker should be set up on the wiring
      of the power supply.
   4. To perform a drainage test for the drain pump turn on the SWE
      on the control board while the indoor unit is being powered.*Be sure to turn off the SWE after completing a drainage test or run.
## 5. SOUND LEVELS

### 5-1. Sound levels

#### 5-1-1. Sound levels (Measured point: With 1m air inlet duct and 2m air outlet duct)

**Measured in anechoic room.**

<table>
<thead>
<tr>
<th>Model</th>
<th>Sound level dB (A)</th>
<th>35Pa</th>
<th>40Pa</th>
<th>50Pa</th>
<th>70Pa</th>
<th>100Pa</th>
<th>150Pa</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEFY-M40VMA(L)-A</td>
<td></td>
<td>23-29-31</td>
<td>-</td>
<td>24-31-33</td>
<td>27-31-35</td>
<td>29-33-37</td>
<td>32-37-41</td>
</tr>
<tr>
<td>PEFY-M60VMA(L)-A</td>
<td></td>
<td>24-34-32</td>
<td>-</td>
<td>28-32-38</td>
<td>28-33-38</td>
<td>31-36-40</td>
<td>33-38-42</td>
</tr>
</tbody>
</table>

#### 5-1-2. Sound levels (Measured point: With 2m air inlet duct and 2m air outlet duct)

**Measured in anechoic room.**

<table>
<thead>
<tr>
<th>Model</th>
<th>Sound level dB (A)</th>
<th>35Pa</th>
<th>40Pa</th>
<th>50Pa</th>
<th>70Pa</th>
<th>100Pa</th>
<th>150Pa</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEFY-M100VMA(L)-A</td>
<td></td>
<td>22-28-31</td>
<td>-</td>
<td>26-29-32</td>
<td>26-30-34</td>
<td>27-32-36</td>
<td>30-36-39</td>
</tr>
<tr>
<td>PEFY-M140VMA(L)-A</td>
<td></td>
<td>30-34-36</td>
<td>-</td>
<td>31-36-37</td>
<td>31-36-38</td>
<td>32-37-39</td>
<td>35-40-42</td>
</tr>
<tr>
<td>PEFY-M140VMA(L)-A</td>
<td></td>
<td>30-34-36</td>
<td>-</td>
<td>31-36-37</td>
<td>31-36-38</td>
<td>32-36-39</td>
<td>34-38-42</td>
</tr>
</tbody>
</table>
5. SOUND LEVELS

5-2. NC curves
5-2-1. NC curves (Sound level measured point: With 1m air inlet duct and 2m air outlet duct)
5. SOUND LEVELS

<table>
<thead>
<tr>
<th>Model</th>
<th>Power Source</th>
<th>External Static Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEFY-M40VMA(L)-A</td>
<td>220-240V</td>
<td>70Pa [0.28in.WG]</td>
</tr>
<tr>
<td>PEFY-M50VMA(L)-A</td>
<td>220-240V</td>
<td>50Pa [0.20in.WG]</td>
</tr>
<tr>
<td>PEFY-M63VMA(L)-A</td>
<td>220-240V</td>
<td>100Pa [0.40in.WG]</td>
</tr>
<tr>
<td>PEFY-M50VMA(L)-A</td>
<td>220-240V</td>
<td>150Pa [0.60in.WG]</td>
</tr>
<tr>
<td>PEFY-M50VMA(L)-A</td>
<td>220-240V</td>
<td>50Pa [0.20in.WG]</td>
</tr>
<tr>
<td>PEFY-M63VMA(L)-A</td>
<td>220-240V</td>
<td>70Pa [0.28in.WG]</td>
</tr>
<tr>
<td>PEFY-M40VMA(L)-A</td>
<td>220-240V</td>
<td>70Pa [0.28in.WG]</td>
</tr>
</tbody>
</table>

Octave band pressure level (dB) 0dB = 20μPa

Octave band center frequencies (Hz):
- Low: 50Hz
- Middle: 50Hz
- High: 50Hz

Continuous noise audible limit on Approximate minimum

- Low: 20μPa
- Middle: 30μPa
- High: 40μPa
### 5. SOUND LEVELS

**External Static Pressure: 100Pa [0.40in.WG]**

Power Source: 220-240V

**PEFY-M71,80VMA(L)-A**

<table>
<thead>
<tr>
<th>Octave band center frequencies (Hz)</th>
<th>Low</th>
<th>Middle</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low</td>
<td>50Hz</td>
<td></td>
<td>50Hz</td>
</tr>
<tr>
<td>Middle</td>
<td>50Hz</td>
<td></td>
<td>50Hz</td>
</tr>
<tr>
<td>High</td>
<td>50Hz</td>
<td></td>
<td>50Hz</td>
</tr>
</tbody>
</table>

Octave band pressure level (dB) 0dB=20μPa

- 10.0
- 15.0
- 20.0
- 25.0
- 30.0
- 35.0
- 40.0
- 45.0
- 50.0
- 55.0
- 60.0
- 65.0
- 70.0

**Approximate minimum continuous noise audible limit on**

- 10.0
- 15.0
- 20.0
- 25.0
- 30.0
- 35.0
- 40.0
- 45.0
- 50.0
- 55.0
- 60.0
- 65.0
- 70.0
5. SOUND LEVELS  

<table>
<thead>
<tr>
<th>Model</th>
<th>Power Source</th>
<th>External Static Pressure</th>
<th>Octave Band Pressure Level (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEFY-M125VMA(L)-A</td>
<td>220-240V</td>
<td>50Pa [0.20in.WG]</td>
<td>0dB, 5dB, 10dB, 15dB, 20dB, 25dB, 30dB, 35dB, 40dB, 45dB, 50dB</td>
</tr>
<tr>
<td>PEFY-M125VMA(L)-A</td>
<td>220-240V</td>
<td>70Pa [0.28in.WG]</td>
<td>0dB, 5dB, 10dB, 15dB, 20dB, 25dB, 30dB, 35dB, 40dB, 45dB, 50dB</td>
</tr>
<tr>
<td>PEFY-M125VMA(L)-A</td>
<td>220-240V</td>
<td>100Pa [0.40in.WG]</td>
<td>0dB, 5dB, 10dB, 15dB, 20dB, 25dB, 30dB, 35dB, 40dB, 45dB, 50dB</td>
</tr>
<tr>
<td>PEFY-M140VMA(L)-A</td>
<td>220-240V</td>
<td>150Pa [0.60in.WG]</td>
<td>0dB, 5dB, 10dB, 15dB, 20dB, 25dB, 30dB, 35dB, 40dB, 45dB, 50dB</td>
</tr>
<tr>
<td>PEFY-M140VMA(L)-A</td>
<td>220-240V</td>
<td>40Pa [0.16in.WG]</td>
<td>0dB, 5dB, 10dB, 15dB, 20dB, 25dB, 30dB, 35dB, 40dB, 45dB, 50dB</td>
</tr>
<tr>
<td>PEFY-M140VMA(L)-A</td>
<td>220-240V</td>
<td>50Pa [0.20in.WG]</td>
<td>0dB, 5dB, 10dB, 15dB, 20dB, 25dB, 30dB, 35dB, 40dB, 45dB, 50dB</td>
</tr>
<tr>
<td>PEFY-M140VMA(L)-A</td>
<td>220-240V</td>
<td>70Pa [0.28in.WG]</td>
<td>0dB, 5dB, 10dB, 15dB, 20dB, 25dB, 30dB, 35dB, 40dB, 45dB, 50dB</td>
</tr>
</tbody>
</table>

Octave band center frequencies (Hz): Low, Middle, High

- Low: 50Hz, 100Hz, 200Hz, 400Hz, 800Hz, 1.6kHz, 3.2kHz, 6.4kHz, 12.8kHz, 25.6kHz
- Middle: 50Hz, 100Hz, 200Hz, 400Hz, 800Hz, 1.6kHz, 3.2kHz, 6.4kHz, 12.8kHz, 25.6kHz
- High: 50Hz, 100Hz, 200Hz, 400Hz, 800Hz, 1.6kHz, 3.2kHz, 6.4kHz, 12.8kHz, 25.6kHz
6. FAN CHARACTERISTICS CURVES

Ceiling concealed (Medium static pressure type)

- **PEFY-M20, 25VMA(L)-A**
  - External static pressure: 35Pa
  - Power source: 220-240V

- **PEFY-M20, 25VMA(L)-A**
  - External static pressure: 50Pa
  - Power source: 220-240V

- **PEFY-M20, 25VMA(L)-A**
  - External static pressure: 70Pa
  - Power source: 220-240V

- **PEFY-M20, 25VMA(L)-A**
  - External static pressure: 100Pa
  - Power source: 220-240V

- **PEFY-M20, 25VMA(L)-A**
  - External static pressure: 150Pa
  - Power source: 220-240V
6. FAN CHARACTERISTICS CURVES
Ceiling concealed (Medium static pressure type)

**PEFY-M32VMA(L)-A**
- External static pressure: 35Pa
- Power source: 220-240V

**PEFY-M32VMA(L)-A**
- External static pressure: 50Pa
- Power source: 220-240V

**PEFY-M32VMA(L)-A**
- External static pressure: 70Pa
- Power source: 220-240V

**PEFY-M32VMA(L)-A**
- External static pressure: 100Pa
- Power source: 220-240V

**PEFY-M32VMA(L)-A**
- External static pressure: 150Pa
- Power source: 220-240V
6. FAN CHARACTERISTICS CURVES

Ceiling concealed (Medium static pressure type)

PEFY-M40VMA(L)-A
External static pressure: 35Pa
Power source: 220-240V

PEFY-M40VMA(L)-A
External static pressure: 50Pa
Power source: 220-240V

PEFY-M40VMA(L)-A
External static pressure: 70Pa
Power source: 220-240V

PEFY-M40VMA(L)-A
External static pressure: 100Pa
Power source: 220-240V

PEFY-M40VMA(L)-A
External static pressure: 150Pa
Power source: 220-240V
6. FAN CHARACTERISTICS CURVES

Ceiling concealed (Medium static pressure type)

PEFY-M50VMA(L)-A
External static pressure: 50Pa
Power source: 220-240V

PEFY-M50VMA(L)-A
External static pressure: 35Pa
Power source: 220-240V

PEFY-M50VMA(L)-A
External static pressure: 100Pa
Power source: 220-240V

PEFY-M50VMA(L)-A
External static pressure: 70Pa
Power source: 220-240V

PEFY-M50VMA(L)-A
External static pressure: 150Pa
Power source: 220-240V
6. FAN CHARACTERISTICS CURVES

Ceiling concealed (Medium static pressure type)

**PEFY-M63VMA(L)-A**
- External static pressure: 35Pa
- Power source: 220-240V

**PEFY-M63VMA(L)-A**
- External static pressure: 50Pa
- Power source: 220-240V

**PEFY-M63VMA(L)-A**
- External static pressure: 70Pa
- Power source: 220-240V

**PEFY-M63VMA(L)-A**
- External static pressure: 100Pa
- Power source: 220-240V

**PEFY-M63VMA(L)-A**
- External static pressure: 150Pa
- Power source: 220-240V
6. FAN CHARACTERISTICS CURVES

Ceiling concealed (Medium static pressure type)

**PEFY-M71, 80VMA(L)-A**
- External static pressure: 40Pa
- Power source: 220-240V

**PEFY-M71, 80VMA(L)-A**
- External static pressure: 50Pa
- Power source: 220-240V

**PEFY-M71, 80VMA(L)-A**
- External static pressure: 70Pa
- Power source: 220-240V

**PEFY-M71, 80VMA(L)-A**
- External static pressure: 100Pa
- Power source: 220-240V

**PEFY-M71, 80VMA(L)-A**
- External static pressure: 150Pa
- Power source: 220-240V
6. FAN CHARACTERISTICS CURVES

Ceiling concealed (Medium static pressure type)

**PEFY-M100VMA(L)-A**
- External static pressure: 40Pa
- Power source: 220-240V

**PEFY-M100VMA(L)-A**
- External static pressure: 50Pa
- Power source: 220-240V

**PEFY-M100VMA(L)-A**
- External static pressure: 70Pa
- Power source: 220-240V

**PEFY-M100VMA(L)-A**
- External static pressure: 100Pa
- Power source: 220-240V

**PEFY-M100VMA(L)-A**
- External static pressure: 150Pa
- Power source: 220-240V

---

**Airflow rate (m³/min)**

**External static pressure (Pa)**

---

**High**

**Middle**

**Low**

**Limit**
6. FAN CHARACTERISTICS CURVES

Ceiling concealed (Medium static pressure type)

- **PEFY-M125VMA(L)-A**
  - External static pressure: 40Pa
  - Power source: 220-240V

- **PEFY-M125VMA(L)-A**
  - External static pressure: 50Pa
  - Power source: 220-240V

- **PEFY-M125VMA(L)-A**
  - External static pressure: 70Pa
  - Power source: 220-240V

- **PEFY-M125VMA(L)-A**
  - External static pressure: 100Pa
  - Power source: 220-240V

- **PEFY-M125VMA(L)-A**
  - External static pressure: 150Pa
  - Power source: 220-240V
6. FAN CHARACTERISTICS CURVES

Ceiling concealed (Medium static pressure type)

**PEFY-M140VMA(L)-A**
- External static pressure: 40Pa
- Power source: 220-240V

**PEFY-M140VMA(L)-A**
- External static pressure: 50Pa
- Power source: 220-240V

**PEFY-M140VMA(L)-A**
- External static pressure: 70Pa
- Power source: 220-240V

**PEFY-M140VMA(L)-A**
- External static pressure: 100Pa
- Power source: 220-240V

**PEFY-M140VMA(L)-A**
- External static pressure: 150Pa
- Power source: 220-240V
7. CAPACITY TABLES

7-1. Correction by fan speed

<table>
<thead>
<tr>
<th>Ratio of air volume</th>
<th>Ratio of cooling capacity</th>
<th>Ratio of heating capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.70</td>
<td>0.80</td>
<td>0.80</td>
</tr>
<tr>
<td>0.75</td>
<td>0.85</td>
<td>0.85</td>
</tr>
<tr>
<td>0.80</td>
<td>0.90</td>
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<tr>
<td>0.90</td>
<td>1.00</td>
<td>1.00</td>
</tr>
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<td>0.95</td>
<td>1.05</td>
<td>1.05</td>
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<td>1.00</td>
<td>1.10</td>
<td>1.10</td>
</tr>
<tr>
<td>1.05</td>
<td>1.15</td>
<td>1.15</td>
</tr>
</tbody>
</table>

Cooling

Heating

8. ELECTRICAL CHARACTERISTICS

Ceiling concealed (Medium static pressure type)

Symbols: MCA (Max. Circuit Amps = 1.25xFLA), FLA (Full Load Amps)
IFM (Indoor Fan Motor), Output (Fan motor rated output)

<table>
<thead>
<tr>
<th>PEFY-M-VMA(L)-A</th>
<th>Power supply</th>
<th>IFM</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Volts/Hz</td>
<td>MCA (A)</td>
</tr>
<tr>
<td></td>
<td>Range +10%</td>
<td></td>
</tr>
<tr>
<td>PEFY-M20VMA(L)-A</td>
<td>220-240V/50Hz</td>
<td>0.93</td>
</tr>
<tr>
<td>PEFY-M25VMA(L)-A</td>
<td>220-240V/60Hz</td>
<td>0.93</td>
</tr>
<tr>
<td>PEFY-M32VMA(L)-A</td>
<td></td>
<td>1.19</td>
</tr>
<tr>
<td>PEFY-M40VMA(L)-A</td>
<td></td>
<td>1.42</td>
</tr>
<tr>
<td>PEFY-M50VMA(L)-A</td>
<td></td>
<td>1.55</td>
</tr>
<tr>
<td>PEFY-M63VMA(L)-A</td>
<td></td>
<td>1.69</td>
</tr>
<tr>
<td>PEFY-M71VMA(L)-A</td>
<td></td>
<td>2.31</td>
</tr>
<tr>
<td>PEFY-M80VMA(L)-A</td>
<td></td>
<td>2.81</td>
</tr>
<tr>
<td>PEFY-M100VMA(L)-A</td>
<td></td>
<td>2.93</td>
</tr>
<tr>
<td>PEFY-M125VMA(L)-A</td>
<td></td>
<td>3.29</td>
</tr>
</tbody>
</table>
9. OPTIONAL PARTS

9-1. Optional parts line up for the Indoor unit

<table>
<thead>
<tr>
<th>Filter box</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEFY-M20, 25, 32 VMA/L-A</td>
</tr>
<tr>
<td>PEFY-M40, 50, 63 VMA/L-A</td>
</tr>
<tr>
<td>PEFY-M71, 80 VMA/L-A</td>
</tr>
<tr>
<td>PEFY-M100, 125 VMA/L-A</td>
</tr>
<tr>
<td>PEFY-M140VMA/L-A</td>
</tr>
</tbody>
</table>

PEFY-M-VMA(L)-A

9-2. Filter box

<table>
<thead>
<tr>
<th>Item</th>
<th>1 Screw</th>
<th>2 Filter box</th>
<th>3 FLANGE</th>
<th>4 Installation manual</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quantity</td>
<td>30</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Shape</td>
<td><img src="image" alt="Screw" /></td>
<td><img src="image" alt="Filter box" /></td>
<td><img src="image" alt="FLANGE" /></td>
<td><img src="image" alt="Installation manual" /></td>
</tr>
</tbody>
</table>

Detailed installation information should be referred to its Installation Manual.
Warning

- Do not use refrigerant other than the type indicated in the manuals provided with the unit and on the nameplate.
- Doing so may cause the unit or pipes to burst, or result in explosion or fire during use, repair, or at the time of disposal of the unit.
- It may also be in violation of applicable laws.
- MITSUBISHI ELECTRIC CORPORATION cannot be held responsible for malfunctions or accidents resulting from the use of the wrong type of refrigerant.

Our air conditioning equipment and heat pumps contain a fluorinated greenhouse gas, R32 or R410A.

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