



SPLIT-TYPE AIR CONDITIONERS
Models
MS-GA50/60VB
MSH-GA50VB Series
MSH-CA50VB
[FLARE CONNECTION TYPE]



When installing an MX2 series outdoor unit, refer to the MS and MSH type manual for indoor unit set up.

1. THE FOLLOWING SHOULD ALWAYS BE OBSERVED FOR SAFETY

- Please provide an exclusive circuit for the air conditioner and do not connect other electrical appliances to it.
- Please report to your supply authority or obtain their consent before connecting this equipment to the power supply system.
- Be sure to read "THE FOLLOWING SHOULD ALWAYS BE OBSERVED FOR SAFETY" before installing the air conditioner.
- Be sure to observe the cautions specified here as they include important items related to safety.
- The indications and meanings are as follows.

WARNING

Could lead to death, serious injury, etc.

CAUTION

Could lead to serious injury in particular environments when operated incorrectly.

- After reading this manual, be sure to keep it together with the OPERATING INSTRUCTIONS in a handy place on the customer's site.

WARNING

- Do not install the unit by yourself (customer). Incomplete installation could cause injury due to fire, electric shock, the unit falling or leakage of water. Consult the dealer from whom you purchased the unit or special installer.

- Install the unit securely in a place which can bear the weight of the unit. When installed in an insufficient strong place, the unit could fall causing injury.

- Use the specified wires to connect the indoor and outdoor units securely and attach the wires firmly to the terminal block connecting sections so the stress of the wires is not applied to the sections.

- Incomplete connecting using could cause fire.

- Do not use intermediate connection of the power cord or the extension cord and do not connect many devices to one AC outlet.

- It could cause a fire or an electric shock due to defective contact, defective insulation, exceeding the permissible current, etc.

- Check that the refrigerant gas does not leak after installation has completed.

- If refrigerant gas leaks indoors, and comes into contact with the fire of a fan heater, space heater, stove, etc., harmful substances will be generated.

- Perform the installation securely referring to the installation manual. Incomplete installation could cause a personal injury due to fire, electric shock, the unit falling or leakage of water.

- Perform electrical work according to the installation manual and be sure to use an exclusive circuit.

- If the capacity of the power circuit is insufficient or there is incomplete electrical work, it could result in a fire or electric shock.

- Attach the electrical cover to the indoor unit and the service panel to the outdoor unit securely.

- If the electrical cover in the indoor unit and/or the service panel in the outdoor unit are not attached securely, it could result in a fire or an electric shock due to dust, water, etc.

- Be sure to use the part provided or specified parts for the installation work.

- The use of defective parts could cause an injury or leakage of water due to a fire, an electric shock, the unit falling, etc.

- Be sure to cut off the main power in case of setting up the indoor electronic control P.C. board or wiring works.

- It could cause an electric shock.

- The appliance shall be installed in accordance with national wiring regulations.

- When installing or relocating the unit, make sure that no substance other than the specified refrigerant (R410A) enters the refrigerant circuit.

- Any presence of foreign substance such as air can cause abnormal pressure rise or an explosion.

3. INSTALLATION DIAGRAM & ACCESSORIES

FLARED CONNECTIONS

- This unit has flared connections on both indoor and outdoor sides.
- Remove the outdoor units valve cover, then connect the pipe.
- Refrigerant pipes are used to connect the indoor and outdoor units.
- Be careful not to crush or bend the pipe in piping.

Limits	
Pipe length	25 m max.
Height difference	10 m max.
No. of bends	10 max.

- Refrigerant adjustment: If pipe length exceeds 7 m, additional refrigerant (R410A) charge is required.

- (The outdoor unit is charged with refrigerant for pipe length up to 7 m.)

Pipe length	Up to 7 m	No additional charge is required.
Exceeding 7 m		Additional charge is required. (Refer to the table below.)

Refrigerant to be added	20 g/m × (refrigerant piping length (m) - 7)
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ACCESSORIES	
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Check the following parts before installation.
-Indoor units-

- Installation plate
- Installation plate fixing screw 4 × 25 mm
- Remote controller holder
- Fixing screw for 3.5 × 16 mm (Black)
- Battery (AAA) for remote controller
- Wireless remote controller
- Felt tape (Used for left or left-rear piping)

- Outdoor unit: MUH type-
- Drain socket
- Drain cap

- PART TO BE PROVIDED AT YOUR SITE
- Optional extension pipe
- Indoor/outdoor unit connecting wire (2-core 1.0 mm²-2.0 mm²)
- Extension pipe
- Wall hole sleeve
- Wall hole cover
- Pipe fixing band (The quantity depends on the pipe length)
- Fixing screw for 3.5 × 20 mm (The quantity depends on the pipe length)
- Piping tape
- Putty
- Drain hose (or soft PVC hose, 15 mm inner dia. or hard PVC pipe VP16)
- Refrigeration oil
- Power supply cord (See the table in 5 INDOOR/OUTDOOR WIRE CONNECTION AND OUTDOOR POWER SUPPLY CORD CONNECTION for the cord size.)

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