

INSTALLATION MANUAL
MS-GA20/25/35VB Series
MSH-GA20/25/35VB Series
[FLARE CONNECTION TYPE]

HFC utilized R410A

- ### 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.
 - 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.

- ### 2. SELECTING THE INSTALLATION LOCATION
- #### 2-1 INDOOR UNIT
- Where airflow is not blocked.
 - Where cool air spreads over the entire room.
 - Maximum refrigerant piping length between indoor unit and outdoor unit is 20 m (2025 type), 25 m (35 type) and the difference of height of both units is 10 m.
 - Rigid wall without vibration.
 - Where it is not exposed to direct sunshine.
 - Where it is easily drained.
 - At a distance 1 m or more away from your TV and radio.
- #### 2-2 OUTDOOR UNIT
- Where it is not exposed to strong wind.
 - Where airflow is good and dustless.
 - Where it is not exposed to rain and direct sunshine.
 - Where neighbours are not annoyed by operation sound or hot air.
 - Where rigid wall or support is available to prevent the increase of operation sound or vibration.
 - Where there is no risk of combustible gas leakage.
 - Where the unit is at a high level, be sure to fix the unit legs.
 - Where it is at least 3 m away from the antenna of TV set or radio.

- #### 2-3 WIRELESS REMOTE CONTROLLER MOUNTING
- Place of mounting:
 - Where it is easy to operate and easily visible.
 - Where children can not touch.
 - Mounting:
 - Select a position about 1.2 m above the floor.
 - Check that signals from the remote controller are surely received by the indoor unit and that position ("beep" or "beep-beep" inverting tone sounds).

- ### 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 pipe bending.
- | Pipe length | 2025 type | 20 m max. |
|-------------------|-----------|-----------|
| Height difference | 35 type | 25 m max. |
| No. of bends | 10 max. | 10 max. |
- #### REFRIGERANT ADJUSTMENT
- Refrigerant to be added
- | Pipe length | Up to 7 m | No additional charge is required. |
|---------------|--|-----------------------------------|
| Exceeding 7 m | Additional charge is required. (Refer to the table below.) | |

