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SAFETY PRECAUTIONS

Read the precautions in this manual carefully before operating the unit.

- The precautions described herein are classified as **WARNING** and **CAUTION**. They both contain important information regarding safety. Be sure to observe all precautions without fail.
- Meaning of WARNING and CAUTION notices**

WARNING Failure to follow these instructions properly may result in personal injury or loss of life.

CAUTION Failure to observe these instructions properly may result in property damage or personal injury, which may be serious depending on the circumstances.

The safety marks shown in this manual have the following meanings:

- Be sure to follow the instructions.
- Be sure to establish an earth connection.
- Never attempt.
- After completing installation, conduct a trial operation to check for faults and explain to the customer how to operate the air conditioner and take care of it with the aid of the operation manual.

WARNING

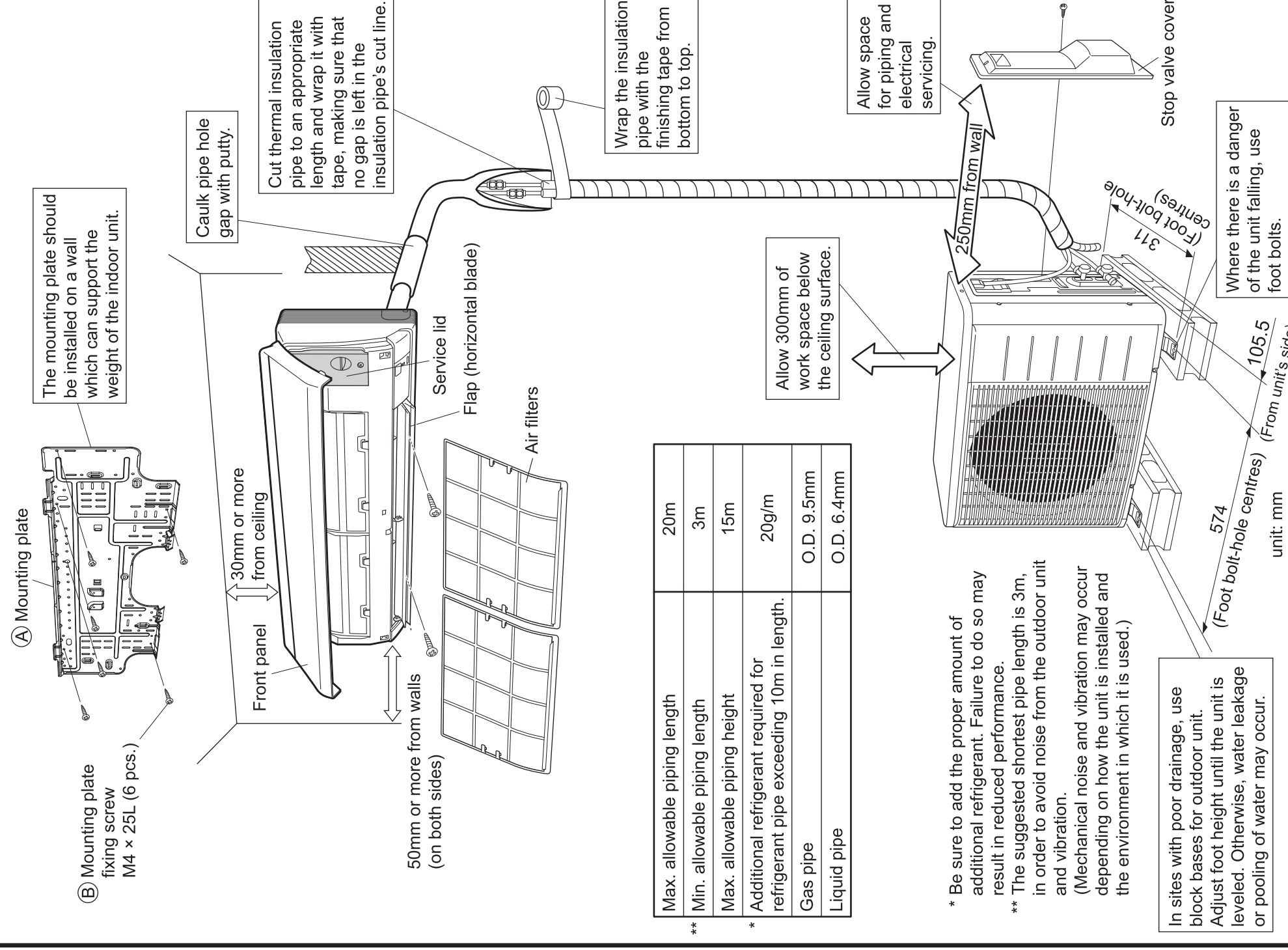
- Ask your dealer or qualified personnel to carry out installation work.
- Do not attempt to install the air conditioner yourself. Improper installation may result in water leakage, electric shocks or fire.
- Install the air conditioner in accordance with the instructions in this installation manual. Improper installation may result in water leakage, electric shocks or fire.
- Be sure to use only the specified accessories and parts for installation work. Failure to use the specified parts may result in the unit being water leakage, electric shocks or fire.
- Install the air conditioner on a foundation strong enough to withstand the weight of the unit. A foundation of insufficient strength may result in the unit falling and causing injury.
- Electrical work must be performed in accordance with all applicable national regulations and with instructions in this installation manual.
- Be sure to use a dedicated power supply circuit only. Insufficiency of power and/or incorrect wiring may result in electric shocks or fire.
- Use a cable of suitable length. Do not use twisted wires or an extension lead, as this may cause overheating, electric shocks or fire.
- Make sure that all wiring is secured, the specified wires are used, and that there is no strain on the terminal connections or wires. Improper connections or securing of wires may result in abnormal heat build-up or fire.
- When wiring the power supply and connecting the wiring between the indoor and outdoor units, position the wires so that the control box lid can be securely fastened. Improper positioning of the control box lid may result in electric shocks, fire or over heating terminals.
- If refrigerant gas leaks during installation, ventilate the area immediately.
- Toxic gas may be produced if the refrigerant comes into contact with fire.
- After completing installation, check for refrigerant gas leakage. Toxic gas may be produced if the refrigerant gas leaks into the room and comes into contact with a source of fire, such as a fan heater, stove or cooker.
- When installing or relocating the air conditioner, be sure to bleed the refrigerant circuit to ensure it is free of air, and use only the specified refrigerant (R32). The presence of air or other foreign matter in the refrigerant circuit causes abnormal pressure rise, which may result in equipment damage and even injury.
- Do not open when the compressor is on, as air is sucked in, causing abnormal pressure in the refrigeration cycle, which may result in equipment damage and even injury.
- During pump-down, stop the compressor before removing the refrigerant piping. If the refrigerant pipes are not drained and the stop valve is closed, the refrigerant will remain in the piping. This may result in the refrigerant being released when the unit is opened during pump-down.
- Be sure to earth the air conditioner.
- Do not earth the unit to a utility pole, lightning conductor or telephone earth lead. Imperfect earthing may result in electric shocks.
- Be sure to install an earth leakage circuit breaker. Failure to install an earth leakage circuit breaker may result in electric shocks or fire.
- Do not pump down when the refrigerant has leaked, otherwise the compressor may be damaged.

CAUTION

- Do not install the air conditioner at any place where there is a danger of flammable gas leakage.
- In the event of a gas leakage, built-up of gas near the air conditioner may cause a fire to break out.
- While following the instructions in this installation manual, install drain piping to ensure proper drainage and insulate piping to prevent condensation. Improper drain piping may result in indoor water leakage and property damage.
- Tighten the flange nut according to the specified method such as with a torque wrench. If the flange nut is too tight, it may crack after prolonged use, causing refrigerant leakage.
- Take adequate steps to prevent the outdoor unit being used as a shelter by small animals.
- Small animals making contact with electrical parts can cause malfunctions, smoke or fire. Please instruct the customer to keep the area around the unit clean.
- The temperature of refrigerant circuit will be high, please keep the inter-unit wires away from copper pipes that are not thermally insulated.

NOTE

INDOOR/OUTDOOR UNIT INSTALLATION DRAWINGS



INSTALLATION MANUAL

CHOOSING AN INSTALLATION SITE

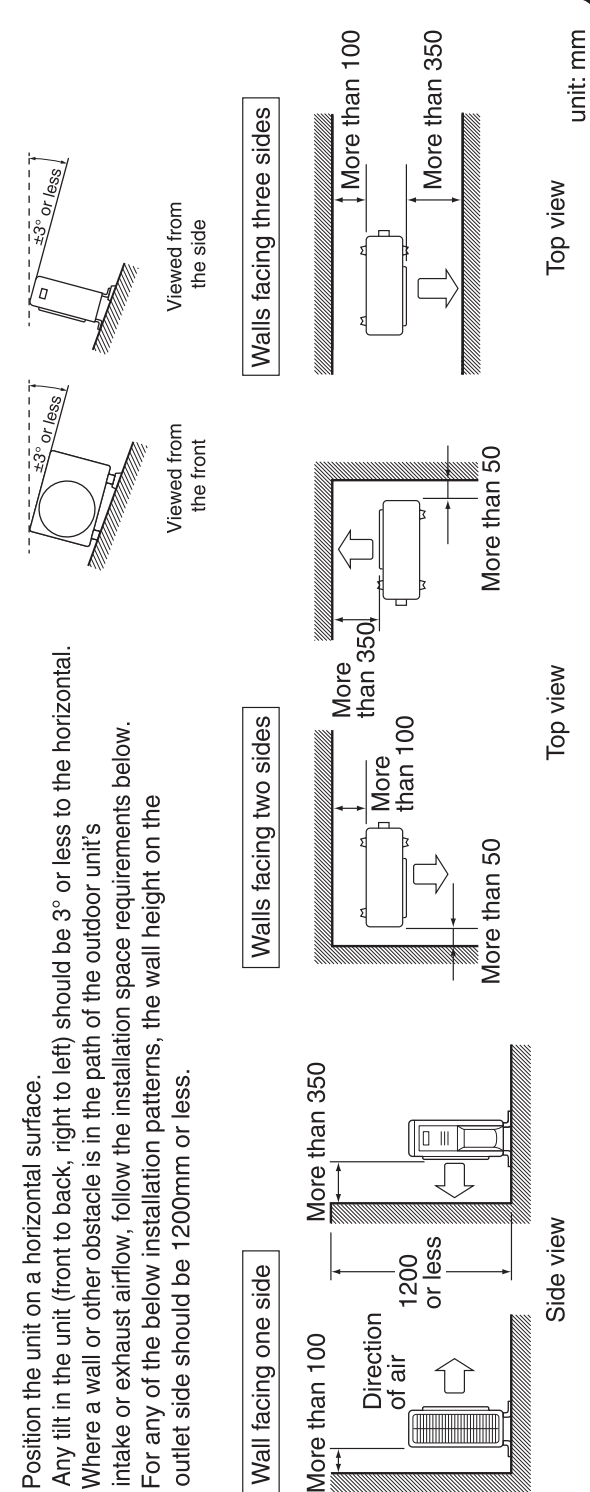
- Before choosing the installation site, obtain user approval.

- Indoor unit**
 - The indoor unit should be sited in a place where:
 - the restrictions on installation specified in the indoor unit installation drawings are met,
 - both air intake and exhaust have clear paths of air, the unit is not in the path of direct sunlight,
 - the unit is away from the source of heat or steam, there is no source of machine oil vapour (this may shorten indoor unit life),
 - cool air is circulated throughout the room,
 - the unit is away from electronic ignition type fluorescent lamps (inverted or rapid start type) as they may shorten indoor unit life,
 - the unit is at least 1 metre away from any television or radio set (unit may cause interference with the picture or sound),
 - install at the recommended height (1.8m).
- Outdoor unit**
 - The outdoor unit should be sited in a place where:
 - the restrictions on installation specified in the outdoor unit installation drawings are met,
 - drain water causes no trouble or problem in particular, both air intake and exhaust have clear paths of air, the unit is in a clear path of air but not directly exposed to rain, strong winds, or direct sunlight,
 - there is no fear of inflammable gas leakage,
 - the unit is not directly exposed to self-sulfidated gases, or machine oil vapour (they may shorten outdoor unit life),
 - operating sound or hot airflow does not cause trouble to neighbours,
 - the unit is at least 3 metres away from any television or radio antenna.

Outdoor Unit Installation Space Requirements

CAUTION

When carrying the outdoor unit during installation, wear gloves to avoid injury.



- Position the unit on a horizontal surface.
- Any tilt in the unit (front to back, right to left) should be 3° or less to the horizontal.
- Where a wall or other obstacle is in the path of the outdoor unit's upper hook, lighting the front grille with the upper hook will be required. Light the front grille with the upper hook, and push it down on the hooks with the fingers of your other hand.
- For any of the below installation patterns, the wall height on the outlet side should be 1200mm or less.

INDOOR UNIT

3-2 INSTALLING THE INDOOR UNIT

- Pass the inter-unit wires from the outdoor unit through the feed-through wall hole and bend the ends of the wires upward in advance for easier work. (If the inter-unit wire ends are to be stripped first, bundle wire ends with adhesive tape.)
- Press the bottom frame of the indoor unit with both hands to set it on the mounting plate hooks. Make sure the wires do not catch on the edge of the indoor unit.

Left-Side, Left-Back, or Left Bottom Piping

1) Attach the drain hose to the underside of the refrigerant pipes with adhesive vinyl tape.

2) Be sure to connect the drain hose to the drain port in place of a drain plug.

3) Shape the refrigerant pipes.

4) Pass drain hose and refrigerant set the indoor unit on mounting plate hooks.

5) Pull in the inter-unit wires.

6) Wrap the refrigerant pipes and drain hose together with insulation tape (field supply) as right figure, in case of setting the drain hose through the back of the indoor unit.

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