



SAFETY PRECAUTIONS

- Read the precautions in this manual carefully before operating the unit.
- This appliance is filled with R32.
- 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.
- Failure to follow these instructions properly may result in personal injury or loss of life.
- 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 operation manual.

- WARNING**
- Ask your dealer or qualified personnel to carry out installation work.
 - Improper installation may result in water leakage, electric shocks or fire.
 - Install the air conditioner according to the instructions given in this manual. Incomplete installation may cause water leakage, electrical shock, 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 falling, water leakage, electrical 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 equipment falling and causing injury.
 - Electrical work must be performed in accordance with relevant local and national regulations and with instructions in this installation manual.
 - Be sure to use a dedicated power supply circuit. Insufficiency of power circuit capacity may result in electric shocks or fire.
 - Be sure to use a dedicated power circuit. Never use a power supply shared by another appliance.
 - Use a cable of suitable length. Do not use tinned 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.
 - Improve connections or secure them in electrical heat shields.
 - 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 overheating terminals.
 - After connecting interconnecting and supply wiring be sure to shape the cables so that they do not put undue force on the electrical covers or panels. Install covers over the wires. Incomplete cover installation may cause terminal overheating, electrical shocks, or fire.
 - When installation 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 cause abnormal pressure rise, which may result equipment damage and even injury.
 - The installation height from the floor must be over 1.8 m.
 - 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.
 - During pump-down, stop the compressor before removing the refrigerant piping.
 - If the compressor is still running and the shut-off valve is open during pump-down, air will be sucked in when the refrigerant piping is removed, causing abnormal pressure in the refrigerant circuit, which may result equipment damage and even injury.
 - During installation, attach the refrigerant piping securely before running the compressor.
 - If the compressor is still attached and the shut-off valve is open when the compressor is run, air will be sucked in, causing abnormal pressure in the freezer cycle, which may result equipment damage and even injury.
 - Be sure to earth the air conditioner.
 - Do not earth the unit to a utility pipe, lightning conductor or telephone earth lead. Imperfect earthing may result in electric shocks.
 - Be sure to install an earth leakage breaker. Failure to install an earth leakage breaker may result in electric shocks, or fire.
 - Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
 - The appliance must be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater).
 - Do not pierce or burn.
 - Be aware that refrigerants may not be contained an odour.
 - The appliance must be installed, operated and stored in a room with a floor area larger than – m².
 - Since the maximum refrigerant charge of the model is below 1.22 kg, it does not have any fluorine for the minimum floor area.
 - Comply with national gas regulations.
 - When flared joints are reused indoors, the flare part shall be re-fabricated.

- CAUTION**
- Do not install the air conditioner at any place where there is danger of flammable gas leakage.
 - In the event of a gas leakage, build-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.
 - The temperature of refrigerant circuit will be high, please keep the inter-unit wiring away from copper pipes that are not thermally insulated.

- CAUTION**
- Make sure to provide for adequate measure in order to prevent that the outdoor unit be 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.
 - Tighten the flare nut according to the specified method such as with a torque wrench.
 - If the flare nut is too tight, it may crack after prolonged use, causing refrigerant leakage.
 - Only qualified personnel can handle, fill, purge and dispose of the refrigerant.

ACCESSORIES

Indoor unit (A) - (E)		Outdoor unit (M)	
A) Mounting plate	1	E) Fixing screws for remote controller holder M3 x 20L	2
B) Mounting plate fixing screws M4 x 25L	7	F) AAA-LR03 (alkaline) dry-cell batteries	2
C) Wireless remote controller	1	G) Indoor unit fixing screws M4 x 12L	2
D) Remote controller holder	1	H) Insulation tape	1
M) Drain socket assembly	1		

CHOOSING A SITE

- Before choosing the installation site, obtain user approval.
- The indoor unit should be located where:
 - The restrictions on installation specified in the INDOOR/OUTDOOR UNIT INSTALLATION DRAWINGS are met.
 - Both air inlet and air outlet have clear paths met.
 - The unit is not in the path of direct sunlight.
 - The unit is away from sources of heat or steam.
 - There is no source of machine oil vapour (this may shorten indoor unit life).
- Wireless Remote Controller
 - Do not expose the remote controller to direct sunlight (this will hinder receiving signals from the indoor unit).
 - Turn on all the fluorescent lamps in the room, if any, and find the site where remote controller signals are properly received by the indoor unit (within 7 m).

INSTALLATION TIPS

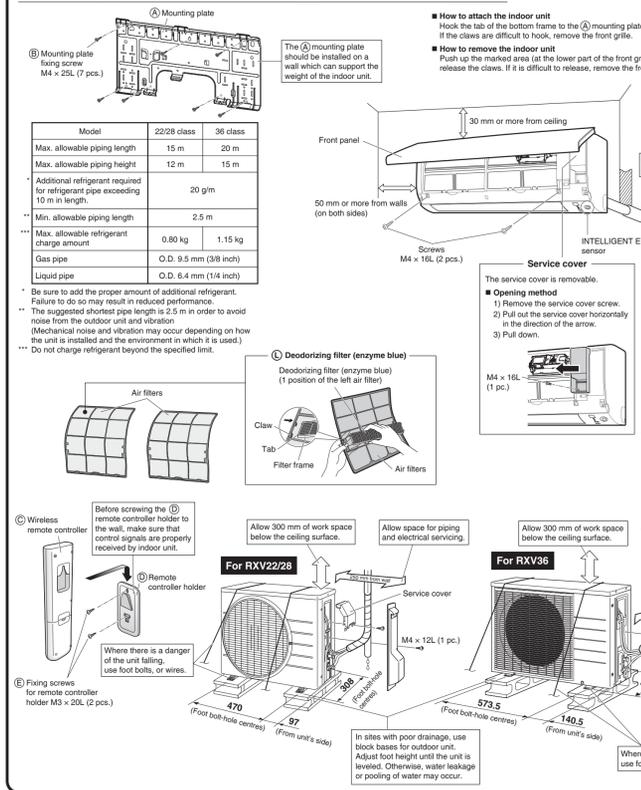
- 1. Removing and installing front panel.**
- Removal method**
 - Place your fingers in the indentations on the main unit (one each on the left and right sides), and open the front panel unit it stops.
 - While pushing the left side front panel shaft outward, push up the front panel and remove it. (Remove the right side front panel shaft in the same manner.)
 - After removing both front panel shafts, pull the front panel toward yourself and remove it.
 - Installation method**
 - Install the front grille and firmly engage the upper hooks (3 locations).
 - Install 2 screws of the front grille.
 - Install the air filter and then mount the front panel.
- 2. Removing and installing front grille.**
- Removal method**
 - Remove front panel and remove the air filter.
 - Remove the front grille fixing screws. (2 screws)
 - In the front of the ○○○ mark of the front grille, there are 3 upper hooks. Lightly pull the front grille toward you with one hand, and push down on the hooks with the fingers of your other hand.
 - Installation method**
 - Align the tabs of the front panel with the grooves, and push all the way in, then close slowly. Push the centre of the lower panel surface firmly to engage the tabs.

INDOOR/OUTDOOR UNIT INSTALLATION DRAWINGS

NOTE
 When flare pipe end and installing the indoor unit and the outdoor unit, refer to "FLARING THE PIPE END" and "REFRIGERANT PIPING" on OUTDOOR UNIT.

INTELLIGENT EYE SENSOR

- CAUTION**
 - Do not hit or forcefully push the INTELLIGENT EYE sensor. This can lead to damage and malfunction.
 - Do not place large objects near the sensor. Also keep heating units or humidifiers outside the sensor's detection area.



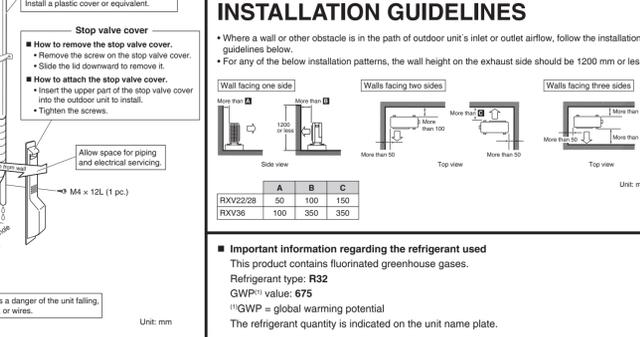
PRECAUTIONS FOR SELECTING THE LOCATION

- CAUTION**
 When operating the air conditioner in a low outdoor ambient temperature, be sure to follow the instructions described below.
 - 1) To prevent exposure to wind, install the outdoor unit with its suction side facing the wall.
 - 2) Never install the outdoor unit at a site where the suction side may be exposed directly to wind.
 - 3) To prevent exposure to wind, it is recommended to install a baffle plate on the air discharge side of the outdoor unit.
 - 4) In heavy snowfall areas, select an installation site where the snow will not affect the unit.
- NOTE
 Cannot be installed hanging from ceiling or stacked.
- Choose a place solid enough to bear the weight and vibration of the unit, where the operation noise will not be amplified.
 - Choose a location where the air discharged from the unit or the operation noise will not cause a nuisance to the neighbors of the user.
 - Avoid places near a bedroom and the like, so that the operation noise will cause no trouble.
 - There must be sufficient spaces for carrying the unit into and out of the site.
 - There must be sufficient space for air passage and no obstructions around the air inlet and the air outlet. The site must be free from the possibility of flammable gas leakage in a nearby place.
 - Install units, power cords and inter-unit cables at least 3 m away from television and radio sets. This is to prevent interference to images and sounds. (Noises may be heard even if they are more than 3 m away depending on radio wave conditions.)
 - The unit is not directly exposed to salty air, scattered river powder or copper powder, sulfur-containing gases, vapour or machine oil vapour (they may shorten the service life of the outdoor unit).
 - Since drain flows out of the outdoor unit, do not place under the unit anything which must be kept away from moisture.

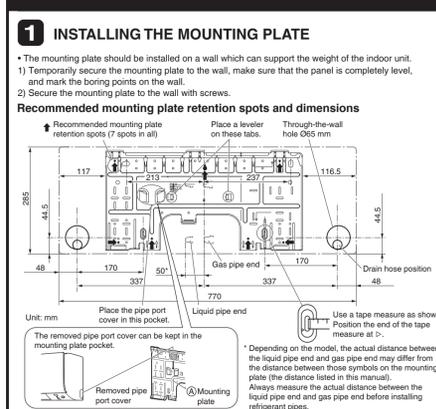
PRECAUTIONS ON INSTALLATION

- Check the strength and level of the installation ground so that the unit will not cause any operating vibration or noise after installed.
- In accordance with the foundation drawing, fix the unit securely by means of the foundation bolts. (Prepare 4 sets of M8 or M10 foundation bolts nuts and washers each which are available on the market.)
- It is best to screw in the foundation bolts, until their length are 20 mm from the foundation surface.

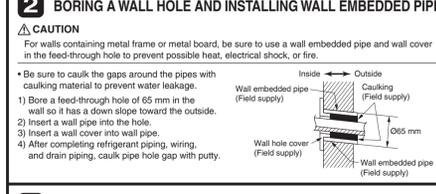
INSTALLATION GUIDELINES



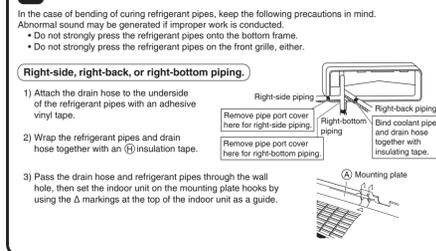
1 INSTALLING THE MOUNTING PLATE



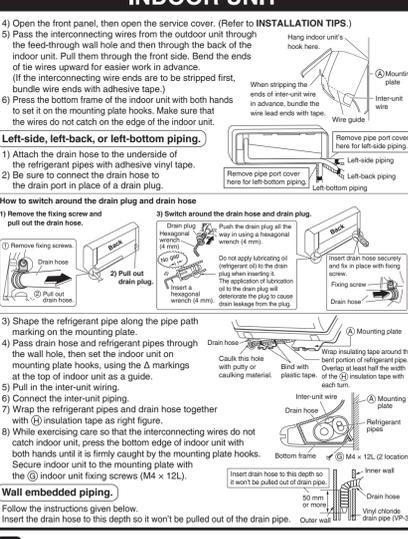
2 BORING A WALL HOLE AND INSTALLING WALL EMBEDDED PIPE



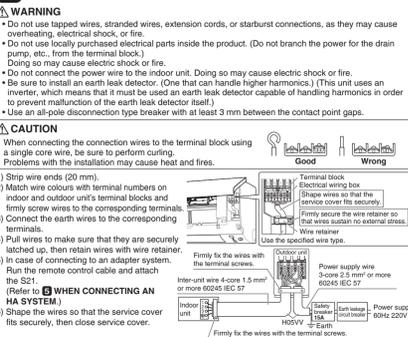
3 INSTALLING INDOOR UNIT



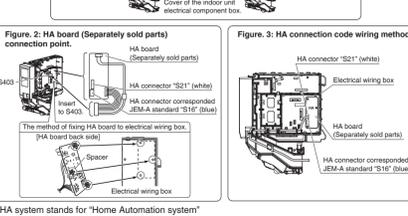
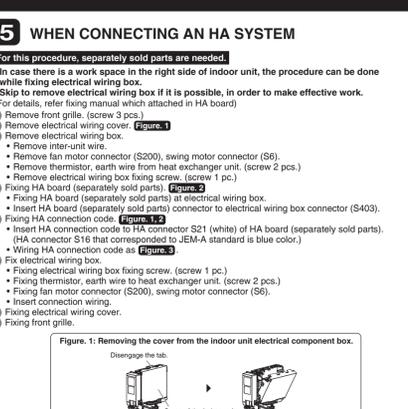
INDOOR UNIT



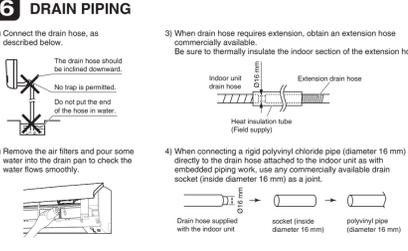
4 WIRING (1)



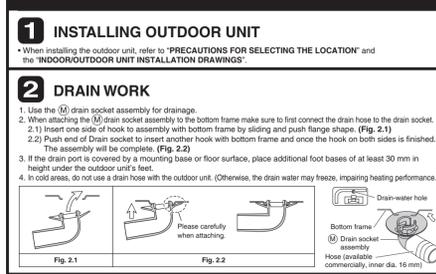
5 WHEN CONNECTING AN HA SYSTEM



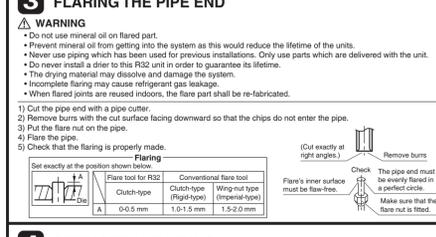
6 DRAIN PIPING



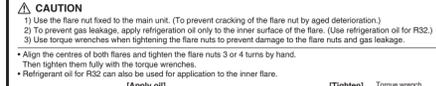
INSTALLING OUTDOOR UNIT



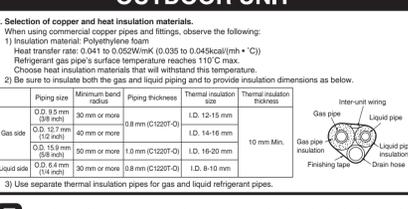
3 FLARING THE PIPE END



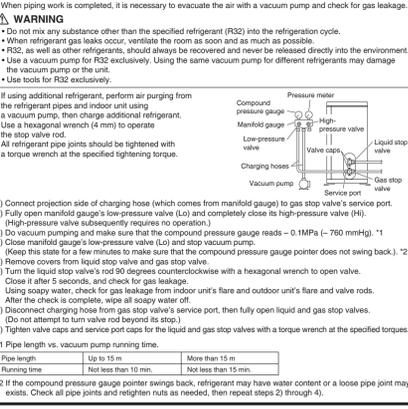
4 REFRIGERANT PIPING



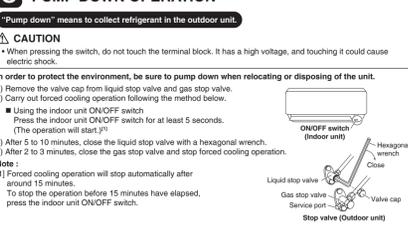
OUTDOOR UNIT



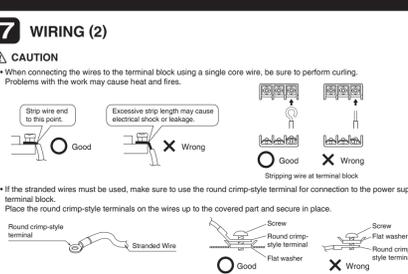
5 EVACUATING THE AIR WITH A VACUUM PUMP AND CHECKING FOR GAS LEAKAGE



6 PUMP DOWN OPERATION



7 WIRING (2)



TRIAL OPERATION AND TESTING

