ELECTRIC INSTALLATION MANUAL

SG79Y414H07

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 conditione Be sure to observe the cautions specified here as they include important items
- related to safety. The indications and meanings are as follows

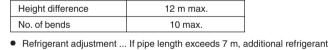
Could lead to death, serious injury, etc

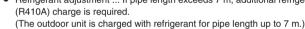
Could lead to serious injury in particular environments when operated incorrectly. After reading this manual, be sure to keep it together with the OPERATING INSTRUCTIONS in a handy place on the customer's site

- 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 and fixing 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 do not leak after installation has com-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 an 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
- 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 pipe bending

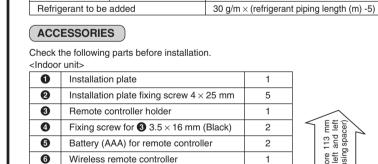






Up to 7 m No additional charge is required. Pipe length Additional charge is required. Exceeding 7 I

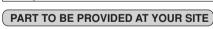
(Refer to the table below.



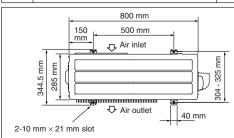
Orain socket (For VA type only) QUICK CLEAN KIT

<Outdoor units

Felt tape (Used for left or left-rear piping)



Optional extension pipe Indoor/outdoor unit connecting wire (4-core 1.0 mm²) **B** Extension pipe **O** Wall hole sleeve Wall hole cove Pipe fixing band (The quantity depends A 2 to 5 on the pipe length.) Fixing screw for **(F)** 4×20 mm (The ß 2 to 5 quantity depends on the pipe length.) **G** Piping tape Putty Drain hose (or soft PVC. hose, 15 mm 0 1 or 2 inner dia. or hard PVC pipe VP16) Refrigeration oil Power supply cord (See the table in 5-1 POWER SUPPLY CORD AND INDOOR/ OUTDOOR UNIT CONNECTING WIRE CONNECTION for the cord size.)



When operating the air conditioner in low outside temperature, be sure to follow the instructions described below.

Never install the outdoor unit in a place where its air inlet/ outlet side may be exposed directly to wind. To prevent exposure to wind, install the outdoor unit with its

air inlet side facing the wall. To prevent exposure to wind, it is recommended to install a baffle board on the air outlet side of the outdoor unit.

SPLIT-TYPE AIR CONDITIONERS

MSZ-FA25/FA35VA Series MUZ-FA25/FA35VA (H) [FLARE CONNECTION TYPE]



outdoor unit, refer to the MXZ type manual for outdoor unit set up.

- Earth the unit. Do not connect the earth to a gas pipe, water pipe, lightning rod or telephone earth. Defective earthing could cause an electric shock Do not install the unit in a place where an inflammable gas leaks.
- If gas leak and accumulate in the area surrounding the unit, it could cause an Install an earth leakage breaker depending on the installation place
- (Where it is humid). If an earth leakage breaker is not installed, it could cause an electric shock.
- Perform the drainage/piping work securely according to the installation manual. If there is a defect in the drainage/piping work, water could drop from the unit
- and household goods could be wet and damaged. Fasten a flare nut with a torque wrench as specified in this manual. When fastened too tight, a flare nut may broken after a long period and cause a leakage of refrigerant.

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 and the difference of height of both units is 12 m. Rigid wall without vibration
- Where it is not exposed to direct sunshine. Where easily drained.
- At a distance 1 m or more away from your TV and radio. Operation of the air conditioner may interfere with radio or TV reception in areas where reception is weak. An amplifier may be required for the affected device. • In a place as far away as possible from fluorescent and incandescent lights (so the infrared remote control can operate the air conditioner normally).

• Where the air filter can be removed and replaced easily.

- 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 annoved by operation sound or hot air • Where rigid wall or support is available to prevent the increase of operation sound
- Where there is no risk of combustible gas leakage
- When installing the unit 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. Operation of the air conditioner may interfere with radio or TV reception in areas where reception is veak. An amplifier may be required for the affected device.
- Install the unit horizontally. • Please install it in an area not affected by snowfall or blowing snow. In areas with
- heavy snow, please install a canopy, a pedestal and/or some baffle boards. It is advisable to make a piping loop near outdoor unit so as to reduce vibration ransmitted from there.

Avoid the following places for installation where air conditioner trouble is liable to

- Where flammable gas could leak.
- Where there is much machine oil. Salty places such as the seaside.
- Where sulfide gas is generated such as a hot spring. Where there is high-frequency or wireless equipme
- 2-3 WIRELESS REMOTE CONTROLLER MOUNTING
- Place of mounting

wireless remote controller may not be received.

- 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 from that position ('beep' or 'beep beep' receiving tone sounds). After that, attach remote controller holder 3 to a pillar or wall and set the wireless remote controller 6. In rooms where inverter type fluorescent lamps are used, the signal from the

PIPING PREPARATION

Basically open 100

any obstruction i

front and on both

Open two sides of left, right,

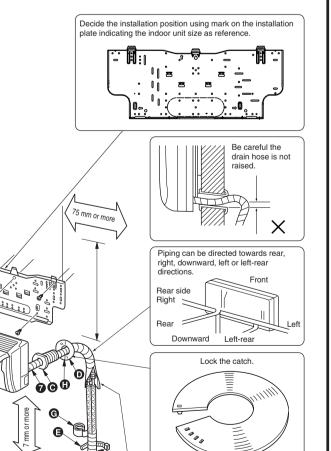
or rear side.

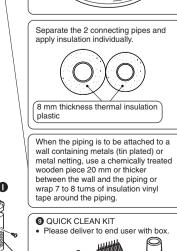
 Specifications Use the refrigerant pipes that meet the following specifications. 				
Pipe	Outside diameter	Insulation thickness	- Insulation material	
	mm	mm		
For liquid	6.35	8	Heat resisting foam plastic	
For gas	9.52	8	0.045 specific gravity	
• Use a copper pipe or a copper-alloy seamless pipe with a thickness of 0.8 mm.				

Never use any pipe with a thickness less than 0.8 mm, as the pressure resistance is insufficient. Ensure that the 2 refrigerant pipes are insulated to prevent condensation.

③ Refrigerant pipe bending radius must be 100 mm or more.

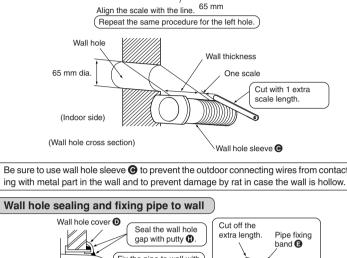
Be sure to use the insulation of specified thickness. Excessive thickness may cause incorrect installation of the indoor unit and lack of thickness may cause dew drippage.





Units should be installed by licensed contractor

according to local code requirement



Hole of dia

4. INDOOR UNIT INSTALLATION

• Find a structural material (such as a stud) in the wall and fix installation plate

plate 1

Vhen bolts recessed in the concrete wall are to be utilized, secure the installation

If the recessed bolt is too long, change it for a shorter one available in the market.

o prevent the installation plate from vibrating, be sure to fix the hole

plate ① using 11 × 20 · 11 × 26 oval hole (450 mm pitch).

 $\widehat{\mathbf{2}}$ Drill a 65 mm hole so that outside can be lower than inside.

55 mm or more

Alian the plumb line

113 mm or more for left

and left back piping (using

4-1 FIXING OF INSTALLATION PLATE

Bind the line to the center hole.

screw 2 4 × 25 mm

as indicated by the arrows \clubsuit .

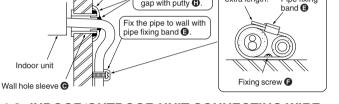
4-2 WALL HOLE DRILLING

Positioning of the holes on the wall

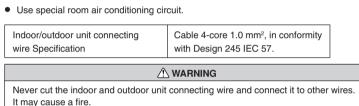
Determine the wall hole position.

Insert the wall hole sleeve **O**.

Insert the scale.



4-3 INDOOR/OUTDOOR UNIT CONNECTING WIRE SPECIFICATIONS



Do not bundle the spare wire, but put it as shown below.

6. INDOOR/OUTDOOR UNIT CONNECTION **FINISHING AND TEST RUN**

NSTALLATION INFORMATION FOR THE AIR CONDI-

TIONER WITH R410A REFRIGERANT • This room air conditioner adopts an HFC refrigerant (R410A) which will never destroy

- the ozone layer • Pay particular attention to the following points, though the basic installation procedure
- is same as that for R22 air conditione As R410A has a working pressure approx. 1.6 times as high as that of R22, some
- pecial tools and piping parts / materials are required. (Refer to the table below.)
- Take sufficient care not to allow water and other contaminations to enter the R410A refrigerant during storage and installation, since it is more susceptible to
- ontaminations than R22.
- For refrigerant piping, use clean, pressure-proof parts / materials specifically designed for R410A. Composition change may occur in R410A since it is a mixed refrigerant. When

charging, charge liquid refrigerant to prevent composition change. 6-1 Tools dedicated for the air conditioner with R410A

refrigerant The following tools are required for R410A refrigerant. Some R22 tools can be ubstituted for R410A tools

The diameter of the service port on the stop valve in outdoor unit has been changed to prevent any other refrigerant being charged into the unit. (Cap size has been changed from 7/16 UNF with 20 threads to 1/2 UNF with 20 threads.)

No	R410A has high pressures beyond the meas- urement range of existing gauges. Port diameters have been changed to prevent any other refrigerant from being charged into the unit.
	unit.
No	Hose material and cap size have been changed to improve the pressure resistance.
No	Dedicated for HFC refrigerant.
Yes	1/4 and 3/8
Yes	Clamp bar hole has been enlarged to reinforce the spring strength in the tool.
New	Provided for flaring work (to be used with R22 flare tool).
New	Provided to prevent the back flow of oil. This adapter enables you to use existing vacuum pumps.
New	It is difficult to measure R410A with a charging cylinder because the refrigerant bubbles due to high pressure and high-speed vaporization.
1	No Yes Yes New New

6-2 FLARING WORK Main cause of gas leakage is defect in flaring work.

Carry out correct flaring work in the following procedure.

Pipe cutting

 Cut the copper pipe correctly with pipe cutter. Ð

2) Burrs removal

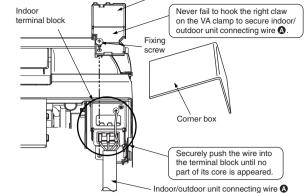
Completely remove all burrs from the cut cross section of pipe. • Put the end of the copper pipe to downward direction as you remove burrs in order to avoid to let burrs drop in the piping.

4-4 INDOOR AND OUTDOOR CONNECTING WIRE CON-

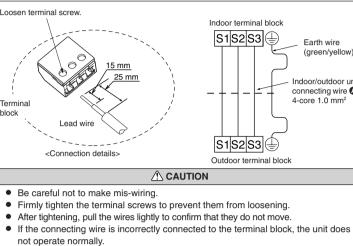
NECTION You can connect indoor/outdoor lead wire without removing the front panel.

Remove the corner box Remove the VA clamp. Process the end of the earth wire and connect the wire to the earth terminal of the electrical parts box. 4) Process the end of the indoor/outdoor unit connecting wire and fix the wire to the

terminal block.) Secure the indoor/outdoor unit connecting wire and the earth wire with the VA clamp. 6 Reinstall the corner box.



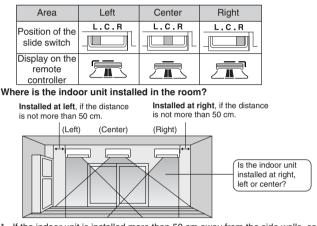
 Use the indoor/outdoor unit connecting wire that meets the Standards to connect the indoor and outdoor units and fix the wire to the terminal block securely so that no external force is conveved to the connecting section of the terminal block. Incomplete connection or fixing of the wire could result in a fire. Attach the VA clamp securely. If it is attached incorrectly, it could result in a fire or an electric shock due to dust, water, etc.



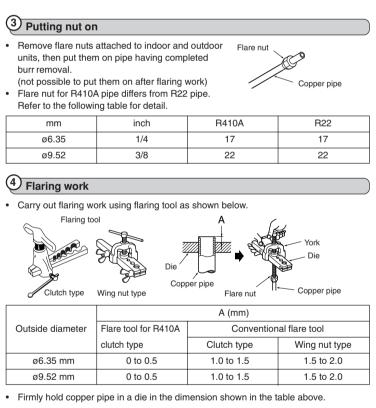
 If an earth is incorrect, it may cause an electric shock. • Make earth wire a little longer than the others. (more than 55 mm)

4-5 HOW TO SWITCH OVER <REMOTE CONTROLLER> The details of SLIDE SWITCH

Remove the front lid. Be sure to set the slide switch inside the remote controller to an appropriate position in accordance with the installed position of the indoor unit. If the switch is not set correctly, the air conditioner may not function properly.

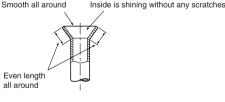


If the indoor unit is installed more than 50 cm away from the side walls, cabinets or other nearby objects, set the slide switch to the "center" position.



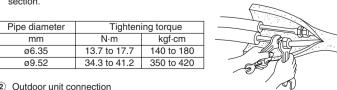
5 Check

 Compare the flared work with figure below. · If flare is noted to be defective, cut off the flared section and do flaring work again



6-3 PIPE CONNECTION

Fasten a flare nut with a torque wrench as specified in the table below. When fastened too tight, a flare nut may broken after a long period and cause a leakage of refrigerant. Indoor unit connection Connect both liquid and gas pipings to indoor unit. Apply a thin coat of refrigeration oil I on the seat surface of pipe • For connection first align the center, then tighten the first 3 to 4 turns of flare nut. Use tightening torque table below as a guideline for indoor unit side union joint section, and tighten using two wrenches. Excessive tightening damages the flare

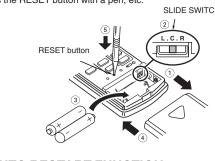


2) Outdoor unit connectio Connect pipes to stop valve pipe joint of the outdoor unit in the same manner applied for ndoor unit. • For tightening, use a torque wrench or spanner and use the same tightening torque

- applied for indoor unit. **NSULATION AND TAPING**
- Over piping joints with pipe cover.) For outdoor unit side, surely insulate every piping including valves.) Using piping tape **G**, apply taping starting from the entry of outdoor unit. • Stop the end of piping tape **G** with tape (with adhesive agent attached)
- When piping have to be arranged through above ceiling, closet or where the temperature and humidity are high, wind additional commercially sold insulation for prevention of condensation

(3) Insert the two batteries (AAA) in the place Reattach the front lid.

(5) Press the RESET button with a pen, etc. SLIDE SWITCH



4-6 AUTO RESTART FUNCTION • These models are equipped with an auto restart function. If you do not want to use

- this function, please consult the service representative because the setting of the unit needs to be changed • When the indoor unit is controlled with the remote controller, the operation mode, the set temperature, and the fan speed are memorized by the indoor electronic control P.C. board. The auto restart function sets to work the moment the power has restored after power failure, then, the unit will restart automatically. If the unit is operated in "AUTO" mode before power failure, the operation mode (COOL, DRY or HEAT) is not stored in the memory. When the main power is turned on, the unit decides the operation mode by the initial room temperature at restart and starts operation again. Operation
- ① If the main power has been cut, the operation settings remain.
- 2 When three minutes have passed after power was restored, the unit will restart automatically according to the memory.

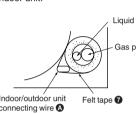
- The operation settings are memorized when 10 seconds have passed after the remote controller was operated. • If the main power is turned off or a power failure occurs while AUTO START/STOP timer is active, the timer setting is cancelled. As these models are equipped with an auto restart function, the air conditioner starts operating with timer cancelled at the same time that power is restored.
- If the unit has been off with the remote controller before power failure, the auto restart function does not work as the power button of the remote controller is off. • To prevent breaker off due to the rush of starting current, systematize other home

appliances not to turn on at the same time. 4-7 PIPE FORMING

- Place the drain hose below the refrigerant piping.
- Make sure that the drain hose is not heaved or snaked.

• Do not pull the hose to apply the tape. • When the drain hose passes the room, be sure to wrap insulation material (obtain-

able at a store) around it • Wrap the felt tape 🕢 around the pipe and the drain hose, then put the pipe in the back space of the indoor uni

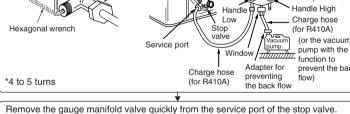


FOR REAR, RIGHT OR DOWNWARD PIPING

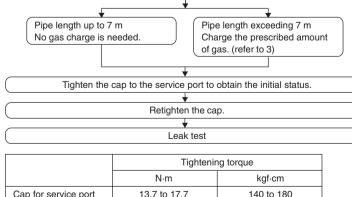
- Pipe arrangemen Put the refrigerant piping and the drain hose together, then apply piping tape 6 t
- Be careful drain hose is no Cut off in case of right piping. Cut off in case of Firmly apply piping tape **G** from the end. downward pipin
- Insert the piping and the drain hose into the wall hole sleeve O, and hook the upper part of the indoor unit on the installation plate $oldsymbol{1}$.
- Check if the indoor unit is hooked securely on the installation plate 1 by moving the unit to left and right. • Thrust the lower part of the indoor unit into the installation plate 1

6-4 PURGING PROCEDURES LEAK TEST

PURGING PROCEDURES Connect the refrigerant pipes (both liquid pipe and the gas pipe) between the indoor and the outdoor unit. Remove the service port cap of the stop valve on the side of the outdoor unit gas pipe. (The stop valve will not work in it initial state fresh out of the factory (totally closed with cap on).) Connect the gauge manifold valve and the vacuum pump to the service port of the stop valve on the gas pipe side of the outdoor unit. Run the vacuum pump. (Vacuumize for more than 15 minutes. Check the vacuum with the gauge manifold valve, then close the gauge manifold valve, and stop the vacuum pump. Leave as it is for one or two minutes. Make sure the pointer gauge manifold valve remains in the same position. Confirm that the pressure gauge shows -0.101 Mpa [Gauge] (-760 mmHg) -0.101MPa Compound pressu Stop valve (-760 mmHg) gauge (for R410A) Pressure gauge 🖌 (for R410A Gauge man Stop valve valve (for R410



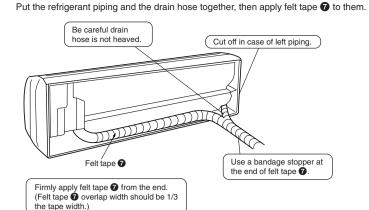
After refrigerant pipes are connected and evacuated, fully open all stop valves on both sides of gas pipe and liquid pipe. Operating without fully opening lowers the performance and this causes trouble





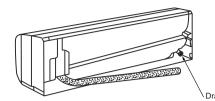
- Before performing the test run, recheck for any wrong wiring.
- Wrong wiring prevents normal operation or results in blown fuse disabling operation. • The test run can be started by pressing EMERGENCY OPERATION switch. When the EMERGENCY OPERATION switch is once pressed, the unit will start the test run (continuous operation) for 30 minutes.
- A thermostat does not work during this time. After 30 minutes the unit will start the EMERGENCY OPERATION at a fixed temperature setting of 24 °C in COOL MODE. • Perform test run in the following procedure.
- Insert the power supply plug into the power outlet and/or turn on the breaker.
- Check that all LED lamps are not lit. If they are blinking, the horizontal vane is not installed correctly.
- In this case, disconnect the power supply plug and/or turn off the breaker, and then reinstall the horizontal vane. (See the OPERATING INSTRUCTIONS.)

FOR LEFT OR LEFT-REAR PIPING • Pipe arrangement

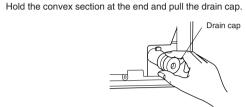


REATTACHING DRAIN HOSI

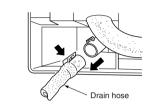
Be sure to reattach the drain hose and the drain cap in case of left or left-rear piping. Otherwise, it could cause drops of water to drip down from the drain hose.



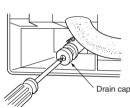
Pull out the drain cap at the rear right of the indoor unit.



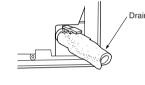
 \bigcirc Pull out the drain hose at the rear left of the indoor unit. Hold the claw marked by the arrow and pull out the drain hose forward.



Put the drain cap into the section to which the drain hose is to be attached at the rear of the indoor unit Insert the screwdriver, etc. (not sharp-edged tool) into the hole at the end of the cap and



Insert the drain hose into the section to which the drain hose is to be attached at the rear right of the indoor unit. Insert the drain hose fully into the drain pan. Check if the hose is hooked securely to the



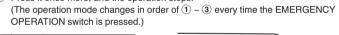
PROCEDURE

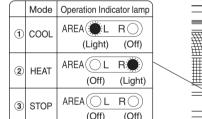
• Press the EMERGENCY OPERATION switch.

projection of its inserting part at the drain pan

insert the cap fully into the drain pan

- hree seconds after the EMERGENCY OPERATION switch is pressed, the auto front panel starts moving forward. Close the front panel before it starts movin
- Press it once, and after test run for 30 minutes the EMERGENCY COOL MODE starts. If the left side lamp of the operation indicator blinks every 0.5 seconds, inspect the loor/outdoor unit connecting wire 🔕 for mis-wiring.
- 2) Press it once more, and the EMERGENCY HEAT MODE starts. Press it once more, and the operation stops







This is the indication of the EMERGENCY OPERATION mode. AREA setting is not available during the EMERGENCY OPERATION.

 In starting the heating operation, indoor unit fan may not operate to prevent blowing cool air. Please wait for a few minutes until the temperature of heat exchanger rises and

warm air blows out.

- Checking the remote (infrared) signal receptior
- Press the ON/OFF button on the remote controller and check that an electronic sound is heard from the indoor unit. Press the ON/OFF button again to turn the air conditioner off.
- If the indoor unit is operated with the remote controller, both the test run and the emergency operation are released by commands from
- the remote controller. • Once the compressor stops, the restart preventive device operates so the compressor

will not operate for three minutes to protect the air conditioner.

6-6 CHECKING AFTER INSTALLATION

After finishing the installation, check the following items and mark the inext to each

□ Is the specified power supply voltage used? ☐ Is the power line equipped with the circuit breaker?

- Have the ends of the indoor/outdoor connecting wire been properly inserted into the terminal blocks?
-] Has the indoor/outdoor connecting wire been secured firmly? Are the power supply cord and indoor/outdoor connecting wire connected directly to the units (no intermediate connections)?
- Is the earth wire longer than the other wires so that it will not become disconnected when tension is applied? ☐ Is the earth wire connected properly
- Are the pipes designed for use with R410A or do they have the specified thickness? Has the leak test been carried out for the pipe connections?
- Has air purging been carried out? Are the stop valves open fully?
- Is the drain hose properly installed
- Has water been poured through the drain hose to confirm proper drainage? Are the pipes at the rear of the unit bundled with felt tape (for left and left-rear piping

] Have all of the A WARNING and A CAUTION items in "1. THE FOLLOWING

• Using the OPERATING INSTRUCTIONS, explain the following to the customer, how to

control temperature, how to remove the air filters, how to remove or put the remote

controller in the remote controller holder, how to clean, precautions for operation, etc.

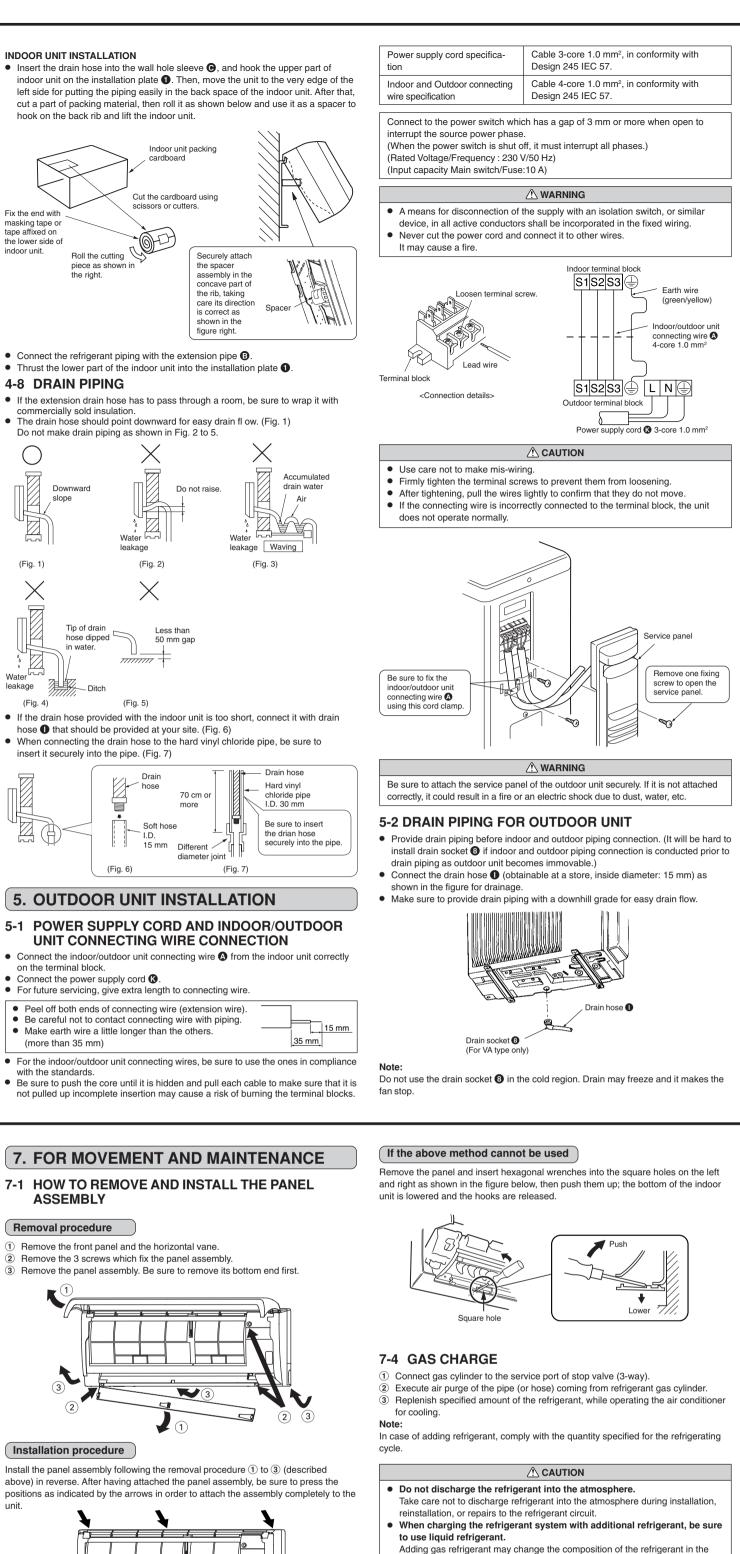
• Recommend the customer to read the OPERATING INSTRUCTIONS carefully.

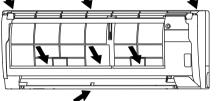
Can the installation location bear the weight of the unit and not amplify its vibration or

SHOULD ALWAYS BE OBSERVED FOR SAFETY" been checked?

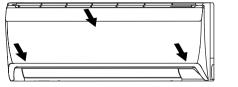
6-7 EXPLANATION TO THE CUSTOMER

- ☐ Is the area under the unit free of objects that block the air outlet?
- Are the vertical and horizontal vanes closed securely? Is the front panel installed securely?
- Has the test run been carried out? Has the drain work been performed properly and are there no bubbling sounds?





After having attached the front panel, press the positions as indicated by the arrows until a "click" is heard.



 Refer to the OPERATING INSTRUCTIONS for the details of removing and installing the front panel and the horizontal vane.

7-2 PUMPING DOWN

When relocating or disposing of the air conditioner, pump down the system following the procedure below so that no refrigerant is released into the atmosphere. 1 Connect the gauge manifold value to the service port of the stop value on the gas pipe side of the outdoor unit.

- (2) Fully close the stop valve on the liquid pipe side of the outdoor unit. ③ Close the stop valve on the gas pipe side of the outdoor unit almost completely so that it can be easily closed fully when the pressure gauge shows -0.101 MPa
- [Gauge] (0 kgf/cm²). (4) Start the test run operation in COOL MODE by pressing EMERGENCY OPERA-TION switch once.
- (5) Fully close the stop valve on the gas pipe side of the outdoor unit when the pressure gauge shows 0.05 to 0 MPa [Gauge] (approx. 0.5 to 0 kgf/cm²).
- (6) Stop the test run operation by pressing the EMERGENCY OPERATION switch

7-3 REMOVING THE INDOOR UNIT

Remove the bottom of the indoor unit from the installation plate

When releasing the corner part

Release both left and right bottom corner part of indoor unit and pull it downward and forward as below to release the hooks.

This product is designed and intended for use in the residential, commercial and aht-industrial environmen

system and affect normal operation of the air conditioner. Also, charge the

To maintain the high pressure of the gas cylinder, warm the gas cylinder with warm

arge hose (for R410)

Refrigerant gas cylinder

for R410A with siphor

efrigerant (liquid)

Electronic scale for

water (under 40°C) during cold season. But never use naked fire or steam.

system slowly, otherwise the compressor will be locked.

operating valv

100-8310. JAPAN

The product at hand is based on • Low Voltage Directive 73/23/ EEC the following EU regulations: • Electromagnetic Compatibility Directive 89/336/ EEC

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