outdoor unit, refer to the MXZ type

manual for outdoor 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. Be sure to read "THE FOLLOWING SHOULD ALWAYS BE OBSERVED FOR
- SAFETY" before installing the air conditioned 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.

↑ CAUTION

 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

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

- 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
- 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

Height difference

No. of bends

- 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	g.
Limits		
Pipe length	20 m 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.)

12 m max.

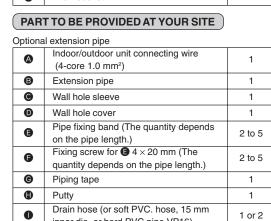
10 max.

	Pipe length	Up to 7 m	No add	itional charg	ge is red	quired.		
Pipe I		F 7	Additional charge is required.					
	Exceeding 7 m	(Refer t	to the table I	below.)				
Refrig	Refrigerant to be added			30 g/m × (refrigerant piping length (m) -5)				
	U	parts before installation	٦.		<	nore more for left and left (using spacer)	\ 	
0	Installatio	n plate		1		more or mor	182 0r n	
2	Installatio	n plate fixing screw 4×25 mm		7		mm or m 9 mm or r ck piping	1.1	
8	Remote c	ontroller holder		1	109 m			
4	Fixing scr	ew for 3.5 × 16 mm (Black)		2	1 ~	\sim	_	

Fixing screw for 3 3.5 × 16 mm (Black) Battery (AAA) for remote controller Wireless remote controller

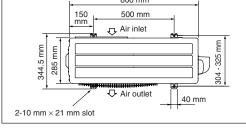
Felt tape (Used for left or left-rear piping) 8 Air cleaning filte Outdoor unit: For YV type only

Opening Socket



inner dia. or hard PVC pipe VP16)

Refrigeration oil



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.

⚠ CAUTION

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

Do not connect the earth to a gas pipe, water pipe, lightning rod or telephone

- 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
- 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

2. SELECTING THE INSTALLATION LOCATION

2-1 INDOOR UNIT

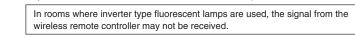
a leakage of refrigerant.

Earth the 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 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. 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 weak. 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
- transmitted from there.
- **↑** CAUTION Avoid the following places for installation where air conditioner trouble is liable to
- Where flammable gas could leak. Where there is much machine oi Salty places such as the seaside.
- Where sulfide gas is generated such as a hot spring. Where there is high-frequency or wireless equipment.
- 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 from that position ('beep' or 'beepbeep' receiving tone sounds). After that, attach remote controller holder 3 to a pillar or wall and set the wireless remote controller 6.



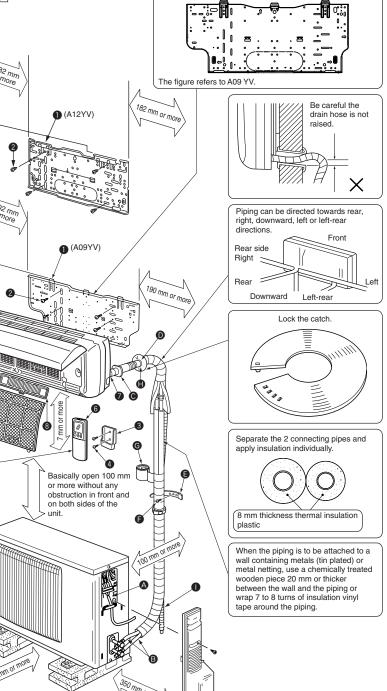
D Opcomodito	110							
Use the refrigerant pipes that meet the following specifications.								
Pipe	Outside diameter	Insulation thickness	Insulation material					
ripe	mm	mm	insulation material					
For liquid	6.35	8	Heat resisting foam plas					
For gas	9.52	8	0.045 specific gravity					
Use a copper 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 ② Ensure that the 2 refrigerant pipes are insulated to prevent condensation 3 Refrigerant pipe bending radius must be 100 mm or more.

⚠ CAUTION 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

Decide the installation position using mark on the installation

ate indicating the indoor unit size as reference



Units should be installed by licensed contractor

according to local code requirement.

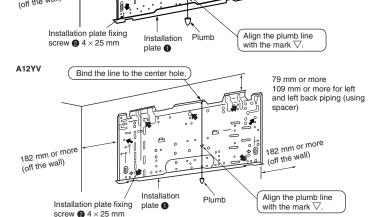
Open two sides of left, right

4. INDOOR UNIT INSTALLATION

4-1 FIXING OF INSTALLATION PLATE

109 mm or more for lef

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



To prevent the installation plate from vibrating, be sure to fix the holes as indicated by the arrows

When bolts recessed in the concrete wall are to be utilized, secure the installation plate \bullet using $11 \times 20 \cdot 11 \times 26$ oval hole (450 mm pitch). If the recessed bolt is too long, change it for a shorter one available in the market.

4-2 WALL HOLE DRILLING

Determine the wall hole position. Drill a 75 mm hole so that outside can be lower than inside. Insert the wall hole sleeve **(6)**.

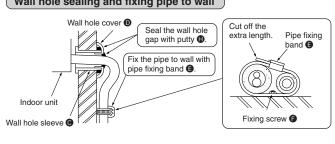
Positioning of the holes on the wall Installation plate 1

Hole of dia Align the scale with the line. Repeat the same procedure for the left hole.

Be sure to use wall hole sleeve **©** to prevent the outdoor connecting wires from contacting with metal part in the wall and to prevent damage by rat in case the wall

Wall hole sealing and fixing pipe to wall

(Wall hole cross section)



6. INDOOR/OUTDOOR UNIT CONNECTION

INSTALLATION INFORMATION FOR THE AIR CONDI-

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

Pay particular attention to the following points, though the basic installation procedure

1) As R410A has a working pressure approx. 1.6 times as high as that of R22, some

special tools and piping parts / materials are required. (Refer to the table below.)

R410A refrigerant during storage and installation, since it is more susceptible to

Take sufficient care not to allow water and other contaminations to enter the

For refrigerant piping, use clean, pressure-proof parts / materials specifically

Ocomposition change may occur in R410A since it is a mixed refrigerant. When

6-1 Tools dedicated for the air conditioner with R410A

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

R410A has high pressures beyond the meas-

Port diameters have been changed to prevent

any other refrigerant from being charged into the

Hose material and cap size have been changed

Clamp bar hole has been enlarged to reinforce

Provided for flaring work (to be used with R22

Provided to prevent the back flow of oil. This

adapter enables you to use existing vacuum

It is difficult to measure R410A with a charging

cylinder because the refrigerant bubbles due to

high pressure and high-speed vaporization.

rement range of existing gauges.

o improve the pressure resistance

Dedicated for HFC refrigerant.

the spring strength in the tool.

1/4 and 3/8

No: Not substitutable for R410A Yes: Substitutable for R410A

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

charging, charge liquid refrigerant to prevent composition change.

FINISHING AND TEST RUN

TIONER WITH R410A REFRIGERANT

designed for R410A. (Refer to 2. Refrigerant piping.)

from 7/16 UNF with 20 threads to 1/2 UNF with 20 threads.)

is same as that for R22 air conditioners

contaminations than R22.

refrigerant

substituted for R410A tools.

Gauge manifold

Charge hose

Gas leak detector

Torque wrench

Flare tool

Flare gauge

Vacuum pump

Electronic scale

for refrigerant

6-2 FLARING WORK

1 Pipe cutting

2 Burrs removal

avoid to let burrs drop in the piping.

Main cause of gas leakage is defect in flaring work.

Cut the copper pipe correctly with pipe cutte

Carry out correct flaring work in the following procedure

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

charging

the ozone layer.

4-3 POWER SUPPLY AND CONNECTING WIRE SPECIFI-

CATIONS

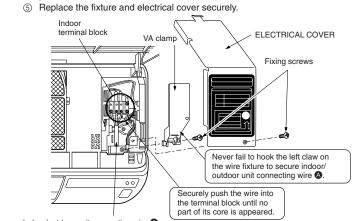
- Use special room air conditioning circuit.
- Power supply cord length 0.3 m/1 m (Lead to left/Lead to right) Indoor/outdoor unit connecting Cable 4-core 1.0 mm², in conformity wire Specification with Design 245 IEC 57
- Take out power supply cord from the left or right bottom corner of the indoor unit. Connect to the power switch which has a gap of 3 mm or more when open to interrupt the source power phase. When the power switch is shut off, it must interrupt all phases.) (Rated Voltage/Frequency: 230 V/50 Hz)

(Input capacity Main switch/Fuse:10 A) (This plug has to be the one meets the Standards.) Power supply cord Green Blue: N Green/Yellow: Ground **↑** WARNING

Never cut the indoor and outdoor unit connecting wire and connect it to other wires. Do not bundle the spare wire, but put it as shown below.

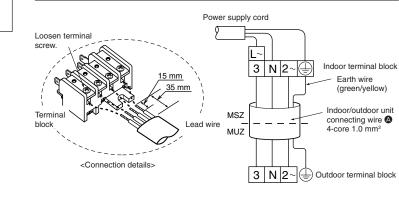
4-4 INDOOR AND OUTDOOR CONNECTING WIRE CON-

- You can connect indoor/outdoor lead wire without removing the front panel. Open the front panel. Remove one screw holding the electrical cover, then remove the cover.
- Remove the VA clamp. Pass the indoor/outdoor unit connecting wire from the back of the indoor unit and process the end of the wire, then connect it to the terminal block.



⚠ WARNING

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 conveyed to the connecting section of the terminal block. Incomplete connection or fixing of the wire could result in a fire. Attach the electrical cover securely. If it is attached incorrectly, it could result in a fire or an electric shock due to dust, water, etc.



Remove flare nuts attached to indoor and outdoor Flare nut

units, then put them on pipe having completed

(not possible to put them on after flaring work)

Carry out flaring work using flaring tool as shown below.

Flare tool for R410A

0 to 0.5

0 to 0.5

Fasten a flare nut with a torque wrench as specified in the table below.

13.7 to 17.7 140 to 180

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 **6** 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

34.3 to 41.2 | 350 to 420

Connect both liquid and gas pipings to indoor unit.

When fastened too tight, a flare nut may broken after a long period and cause a leakage

• For connection first align the center, then tighten the first 3 to 4 turns of flare nut.

section, and tighten using two wrenches. Excessive tightening damages the flare

Connect pipes to stop valve pipe joint of the outdoor unit in the same manner applied for

• For tightening, use a torque wrench or spanner and use the same tightening torque

• Use tightening torque table below as a guideline for indoor unit side union joint

Firmly hold copper pipe in a die in the dimension shown in the table above.

• If flare is noted to be defective, cut off the flared section and do flaring work again.

clutch type

• Compare the flared work with figure below.

6-3 PIPE CONNECTION

Conventional flare tool

Clutch type

1.0 to 1.5

1.0 to 1.5

Wing nut type

1.5 to 2.0

1.5 to 2.0

· Flare nut for R410A pipe differs from R22 pipe

Refer to the following table for detail

ø9.52

Outside diameter

ø6.35 mm

ø9.52 mm

5 Check

of refrigerant.

(1) Indoor unit connection

Outdoor unit connection

applied for indoor unit

INSULATION AND TAPING

Cover piping joints with pipe cover

⚠ CAUTION

- FOR LEFT OR LEFT-REAR PIPING Be careful not to make mis-wiring.
- If the connecting wire is incorrectly connected to the terminal block, the unit does not operate normally.

• Firmly tighten the terminal screws to prevent them from loosening.

• After tightening, pull the wires lightly to confirm that they do not move.

• If an earth is incorrect, it may cause an electric shock. Make earth wire a little longer than the others. (more than 35 mm)

4-5 AUTO RESTART FUNCTION

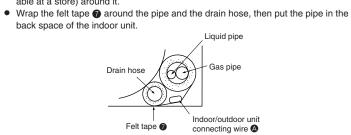
- These models are equipped with an auto restart function. If you do not want to use this function, please consult the service representative because the setting of the unit needs to be changed.
- When the indoor unit is controlled with the remote controller, the operation mode, the set temperature, 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 "I FEEL..." or "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

- 1) If the main power has been cut, the operation settings remain 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
- 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.

timer is active, the timer setting is cancelled. As these models are equipped with an

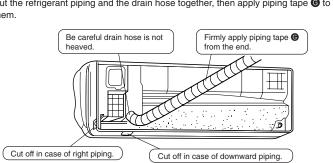
• To prevent breaker off due to the rush of starting current, systematize other home appliances not to turn on at the same time

- 4-6 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 (obtainable at a store) around it.



FOR REAR, RIGHT OR DOWNWARD PIPING

 Pipe arrangement Put the refrigerant piping and the drain hose together, then apply piping tape 6 to



• Insert the piping and the drain hose into the wall hole sleeve **©**, and hook the upper part of the indoor unit on the installation plate 1. • Check if the indoor unit is hooked securely on the installation plate • by moving the

PURGING PROCEDURES

pipe. (The stop valve will not work in it initial state fresh out of the factory (totally

Connect the gauge manifold valve and the vacuum pump to the service port of the

Check the vacuum with the gauge manifold valve, then close the gauge manifold

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

Operating without fully opening lowers the performance and this causes trouble.

Tighten the cap to the service port to obtain the initial status

Retighten the cap.

Leak test

13.7 to 17.7

19.6 to 29.4

Tightening torque

Stop valve (-760 mmHg) gauge (for R410A)

Vacuum pump Window

Pipe length exceeding 7 m

of gas. (refer to 3)

Charge the prescribed amount

kgf⋅cm

140 to 180

200 to 300

Adapter for

✓ (for R410A)

Gauge manifold

valve (for R410

(or the va

back flow)

unit to left and right. • Thrust the lower part of the indoor unit into the installation plate 1

6-4 PURGING PROCEDURES-LEAK TEST

stop valve on the gas pipe side of the outdoor unit.

valve, and stop the vacuum pump.

both sides of gas pipe and liquid pipe.

Pipe length up to 7 m

Cap for service port

Cap for stop valve

No gas charge is needed.

Run the vacuum pump. (Vacuumize for more than 15 minutes.

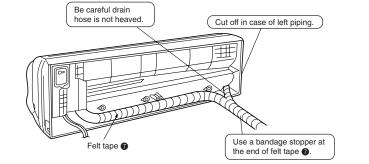
and the outdoor unit.

closed with cap on).)

[Gauge] (-760 mmHg).

*4 to 5 turns

Put the refrigerant piping and the drain hose together, then apply felt tape 7 to them.

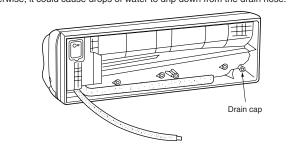


REATTACHING DRAIN HOSE

Firmly apply felt tape 7 from the end.

(Felt tape 7 overlap width should be 1/3

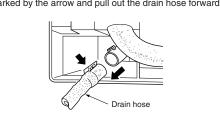
Be sure to reattach the drain hose and the drain cap in case of left or left-rear piping. Otherwise, it could cause drops of water to drip down from the drain hose.



Pull out the drain cap at the rear right of the indoor unit. Hold the convex section at the end and pull the drain cap.

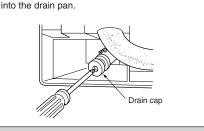


Pull out the drain hose at the rear left of the indoor unit. Hold the claw marked by the arrow and pull out the drain hose forward



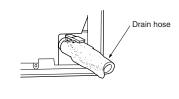
$\mathcal P$ Put the drain cap into the section to which the drain hose is to be attached at the rear of the indoor unit

Insert the screwdriver, etc. (not sharp-edged tool) into the hole at the end of the cap and insert the cap fully into the drain pan.



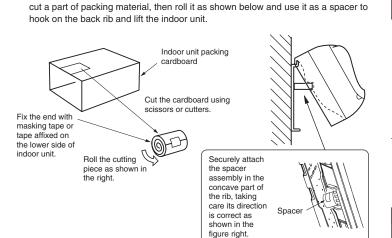
Insert the drain hose into the section to which the drain hose is to be attached at the rear right of the indoor unit.

Insert the drain hose fully into the drain pan. Check if the hose is hooked securely to the ance with the standards. Be sure to push the core until it is hidden and pull each cable to make sure that it projection of its inserting part at the drain pan. is not pulled up incomplete insertion may cause a risk of burning the terminal



INDOOR UNIT INSTALLATION

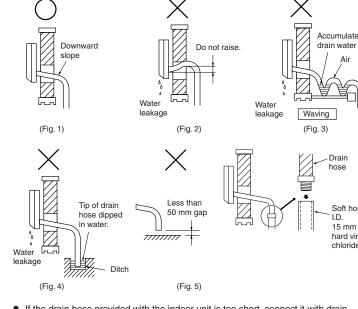
 Insert the drain hose into the wall hole sleeve . and hook the upper part of indoor unit on the installation plate 1. Then, move the unit to the very edge of the left side for putting the piping easily in the back space of the indoor unit. After that



 Connect the refrigerant piping with the extension pipe B. Thrust the lower part of the indoor unit into the installation plate

4-7 DRAIN PIPING

• The drain hose should point downward for easy drain flow. (Fig. 1) Do not make drain piping as shown in Fig. 2 to 5.



• If the drain hose provided with the indoor unit is too short, connect it with drain hose **1** that should be provided at your site. • If the extension drain hose has to pass through a room, be sure to wrap it with commercially sold insulation.

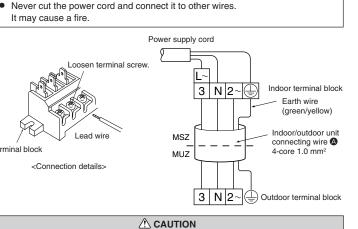
5. OUTDOOR UNIT INSTALLATION

- 5-1 INDOOR/OUTDOOR UNIT CONNECTING WIRE CONNECTION
- Connect the indoor/outdoor unit connecting wire (a) from the indoor unit correctly on the terminal block • For future servicing, give extra length to connecting wire.
- Be careful not to contact connecting wire with piping. Make earth wire a little longer than the others. ___ 15 mm (more than 35 mm) 35 mm For the indoor/outdoor unit connecting wires, be sure to use the ones in compli-

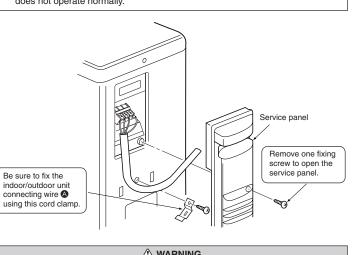
Peel off both ends of connecting wire (extension wire).

Indoor and Outdoor connecting Cable 4-core 1.0 mm², in conformity with wire Specification Design 245 IEC 57.

• A means for disconnection of the supply with an isolation switch, or similar device, in all active conductors shall be incorporated in the fixed wiring.



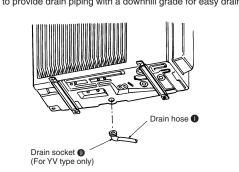
Use care not to make mis-wiring. • Firmly tighten the terminal screws to prevent them from loosening. After tightening, pull the wires lightly to confirm that they do not move. • If the connecting wire is incorrectly connected to the terminal block, the unit



Be sure to attach the service panel of the outdoor unit securely. If it is not attached correctly, it could result in a fire or an electric shock due to dust, water, etc.

5-2 DRAIN PIPING FOR OUTDOOR UNIT

- Provide drain piping before indoor and outdoor piping connection. (It will be hard to install drain socket 9 if indoor and outdoor piping connection is conducted prior to drain piping as outdoor unit becomes immovable.)
- Connect the drain hose ① (obtainable at a store, inside diameter: 15 mm) as shown in the figure for drainage. • Make sure to provide drain piping with a downhill grade for easy drain flow.

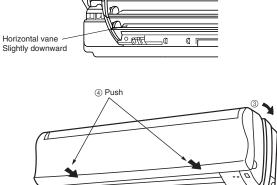


Do not use the drain socket (9) in the cold region. Drain may freeze and it makes the

7. FOR MOVEMENT AND MAINTENANCE

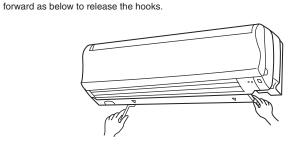
7-1 HOW TO INSTALL THE FRONT PANEL Before installing the front panel, set the horizontal vane to the position as shown

② Insert the bottom of the front panel under the horizontal vane. Set the top of the front panel. Push as the arrow mark on the front panel to fix it to the air conditioner.



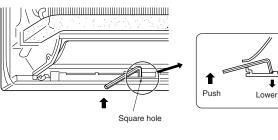
7-2 REMOVING THE INDOOR UNIT Remove the bottom of the indoor unit from the installation plate.

When releasing the corner part Release both left and right bottom corner part of indoor unit and pull it downward and



Remove the front panel and insert hexagonal wrenches into the square holes on the

left and right as shown in the figure below, then push them up; the bottom of the indoor unit is lowered and the hooks are released.



Connect gas cylinder to the service port of stop valve (3-way).

Execute air purge of the pipe (or hose) coming from refrigerant gas cylinder. Replenish specified amount of the refrigerant, while operating the air conditioner In case of adding refrigerant, comply with the quantity specified for the refrigerating

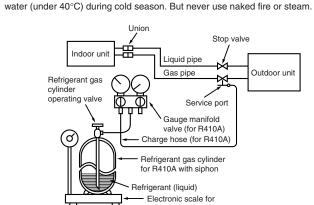
occur in the refrigerant inside the cylinder and the outdoor unit. In this case,

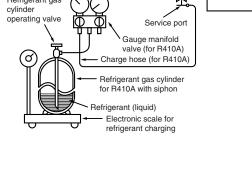
impossible. However, charging the liquid refrigerant all at once may cause the

ability of the refrigerating cycle decreases or normal operation can be

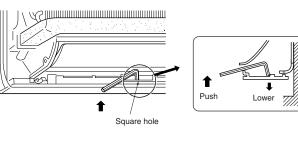
↑ CAUTION • Do not discharge the refrigerant into the atmosphere. Take care not to discharge refrigerant into the atmosphere during installation, reinstallation, or repairs to the refrigerant circuit. • For additional charging, charge the refrigerant from liquid phase of the If the refrigerant is charged from the gas phase, composition change may

compressor to be locked. Thus, charge the refrigerant slowly. To maintain the high pressure of the gas cylinder, warm the gas cylinder with warm





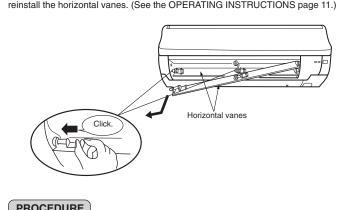
If the above method cannot be used



This product is designed and intended for use in the residential, commercial and light-industrial environment The product at hand is based on • Low Voltage Directive 73/23/ EEC the following EU regulations: • Electromagnetic Compatibility Directive 89/336/

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- 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 Connect the refrigerant pipes (both liquid pipe and the gas pipe) between the indoor (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. Remove the service port cap of the stop valve on the side of the outdoor unit gas
 - Perform test run in the following procedure. Insert the power supply plug into the power outlet and/or turn on the breaker. Check that both of the operation indicator lamps are not lit. If they are blinking, the horizontal vanes are not installed correctly In this case, disconnect the power supply plug and/or turn off the breaker, and then



Press the EMERGENCY OPERATION switch. 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 indoor/outdoor unit connecting wire (A) for mis-wiring.

Press it once more, and the EMERGENCY HEAT MODE starts. Remove the gauge manifold valve quickly from the service port of the stop valve. Press it once more, and the operation stops. (The operation mode changes in order of $\textcircled{1} \sim \textcircled{3}$ every time the EMERGENCY After refrigerant pipes are connected and evacuated, fully open all stop valves on OPERATION switch is pressed." | Mode | Operation Indicator lamp (Light) (Off)

> \bigcirc • In starting the heating operation, indoor unit fan may not operate to prevent blowing

Press the ON/OFF button on the remote controller and check that an electronic sound is

run and the emergency operation are released by commands from • Once the compressor stops, the restart preventive device operates so the compressor

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 reception 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

(Light)

(Off)

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

6-6 EXPLANATION TO THE CUSTOMER • 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.

MITSUBISHI ELECTRIC CORPORATION