

Console MVD DC

Installation manual



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1. PRECAUTIONS

- Be sure to be in conformity with the local, national and international laws and regulations.
- Read "PRECAUTIONS" carefully before installation.
- The following precautions include important safety items. Observe them and never forget.
- Keep this manual with the owner's manual in a handy place for future reference.

The safety precautions listed here are divided into two categories. In either case, important safety information is listed which must be read carefully.



WARNING

Failure to observe a warning may result in death.



CAUTION

Failure to observe a caution may result in injury or damage to the equipment.

After completing the installation, make sure that the unit operates properly during the start-up operation. Please instruct the customer on how to operate the unit and keep it maintained. Also, inform customers that they should store this installation manual along with the owner's manual for future reference.



WARNING

Be sure only trained and qualified service personnel to install, repair or service the equipment.

Improper installation, repair, and maintenance may result in electric shocks, short-circuit, leaks, fire or other damage to the equipment.

Disconnect the power supply before cleaning and maintenance.

Install according to this installation instructions strictly. If installation is defective, it will cause water leakage, electrical shock fire.

When installing the unit in a small room, take measures against to keep refrigerant concentration from exceeding allowable safety limits in the event of refrigerant leakage. Contact the place of purchase for more information. Excessive refrigerant in a closed ambient can lead to oxygen deficiency.

Use the attached accessories parts and specified parts for installation. otherwise, it will cause the set to fall, water leakage, electrical shock fire.

Install at a strong and firm location which is able to withstand the set's weight. If the strength is not enough or installation is not properly done, the set will drop to cause injury.

The appliance shall not be installed in the laundry.

Before obtaining access to terminals, all supply circuits must be disconnected.

The appliance must be positioned so that the plug is accessible.

The enclosure of the appliance shall be marked by word, or by symbols, with the direction of the fluid flow.

For electrical work, follow the local national wiring standard, regulation and this installation instructions. An independent circuit and single outlet must be used. If electrical circuit capacity is not enough or defect in electrical work, it will cause electrical shock fire.

Use the specified cable and connect tightly and clamp the cable so that no external force will be acted on the terminal. If connection or fixing is not perfect, it will cause heat-up or fire at the connection.

Wiring routing must be properly arranged so that control board cover is fixed properly. If control board cover is not fixed perfectly, it will cause heat-up at connection point of terminal, fire or electrical shock.

If the supply cord is damaged, it must be replaced by the manufacture or its service agent or similarly qualified person in order to avoid a hazard.

An all-pole disconnection switch having a contact separation of at least 3mm in all poles should be connected in fixed wiring.

When carrying out piping connection, take care not to let air substances go into refrigeration cycle. Otherwise, it will cause lower capacity, abnormal high pressure in the refrigeration cycle, explosion and injury.

Do not modify the length of the power supply cord or use of extension cord, and do not share the single outlet with other electrical appliances. Otherwise, it will cause fire or electrical shock.

Carry out the specified installation work after taking into account strong winds, typhoons or earthquakes. Improper installation work may result in the equipment falling and causing accidents.

If the refrigerant leaks during installation, ventilate the area immediately.

Toxic gas may be produced if the refrigerant comes into the place contacting with fire.

The temperature of refrigerant circuit will be high, please keep the interconnection cable away from the copper tube.

After completing the installation work, check that the refrigerant does not leak.

Toxic gas may be produced if the refrigerant leaks into the room and comes into contact with a source of fire, such as a fan heater, stove or cooker.



CAUTION

Ground the air conditioner.

Do not connect the ground wire to gas or water pipes, lightning rod or a telephone ground wire. Incomplete grounding 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.

Connect the outdoor unit wires, then connect the indoor unit wires.

You are not allowed to connect the air conditioner with the power source until wiring and piping the air conditioner is done.

While following the instructions in this installation manual, install drain piping in order to ensure proper drainage and insulate piping in order to prevent condensation.

Improper drain piping may result in water leakage and property damage.

Install the indoor and outdoor units, power supply wiring and connecting wires at least 1 meter away from televisions or radios in order to prevent image interference or noise.

Depending on the radio waves, a distance of 1 meter may not be sufficient enough to eliminate the noise.

The appliance is not intended for use by young children or infirm persons without supervision.

Don't install the air conditioner in the following locations:

- There is petrolatum existing.
 - There is salty air surrounding (near the coast). There is petrolatum existing.
 - There is salty air surrounding (near the coast). If this can't be avoided, choose an anticorrosive model.
 - There is caustic gas (the sulfide, for example) existing in the air (near a hot spring).
 - The Volt vibrates violently (in the factories).
 - In buses or cabinets.
 - In kitchen where it is full of oil gas.
 - There is strong electromagnetic wave existing.
 - There are inflammable materials or gas.
 - There is acid or alkaline liquid evaporating.
- Other special conditions.

2. INSTALLATION INFORMATION

- To install properly, please read this "installation manual" at first.
- The air conditioner must be installed by qualified persons.
- When installing the indoor unit or its tubing, please follow this manual as strictly as possible.
- If the air conditioner is installed on a metal part of the building, it must be electrically insulated according to the relevant standards to electrical appliances.
- When all the installation work is finished, please turn on the power only after a thorough check.
- Regret for no further announcement if there is any change of this manual caused by product improvement.













INSTALLATION ORDER

- Select the location;
- Install the indoor unit;
- Install the outdoor unit;
- Install the connecting pipe ;
- Connect the drain pipe;
- Wiring;
- Test operation.

3. ACCESSORIES

Please check whether the following fittings are of full scope. If there are some spare fittings , please restore them carefully.

Table 3-1

	NAME	SHAPE	QUANTITY
Installation fittings	1.Hook		2
	2. Mounting screw(ST3.9×25-C-H)		10
Remote controller & Its Frame	3. Remote controller		1
	4. Frame		1
	5. Mounting screw(ST2.9×10-C-H)		2
	6. Alkaline dry batteries (AM4)		2
	7. Remote controller manual		1
Others	8. Installation manual		1
	9. Remote alarm signal wires		1
	10. Remote control signal wires		1
	11. Flexible hose tube		1
	12.Copper:Use for pipe connection of engineering installation		1

Cautions on remote controller installation:

- Never throw or beat the controller.
- Before installation, operate the remote controller to determine its location in a reception range.
- Keep the remote controller at least 1m apart from the nearest TV set or stereo equipment. (it is necessary to prevent image disturbances or noise interferences.)
- Do not install the remote controller in a place exposed to direct sunlight or close to a heating source, such as a stove.
- Note that the positive and negative poles are right positions when loading batteries.
- This manual is subject to changes due to technological improvement without further notices.

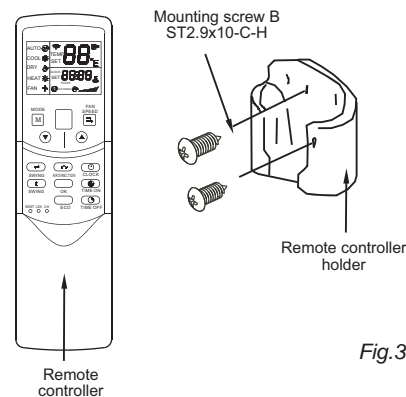




Fig.3-1

4. INSPECTING AND HANDLING THE UNIT

At delivery, the package should be checked and any damage should be reported immediately to the service agent.

When handling the unit, take into account the following:

-  Fragile, handle the unit with care.
-  Keep the unit upright in order to avoid compressor damage.
- Choose on before hand the path along which the unit is to be brought in.
- Move this unit as originally package as possible.
- When lifting the unit , always use protectors to prevent belt damage and pay attention to the position of the unit's centre of gravity.

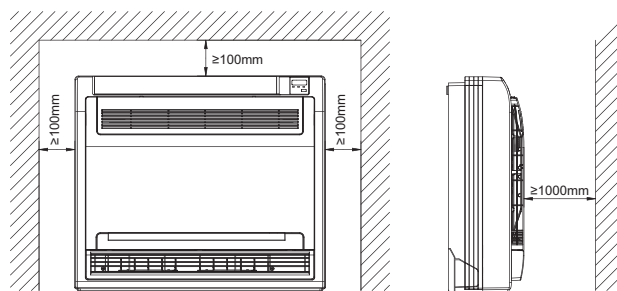


Fig.5-1

5. INDOOR UNIT INSTALLATION

5.1 Installation place

The indoor unit should be installed in a location that meets the following requirements:

- There is enough room for installation and maintenance.
(Refer to Fig.5-1 and Fig.5-2)
- The outlet and the inlet are not impeded, and the influence of external air is the least.
- The air flow can reach throughout the room.
- The connecting pipe and drainpipe could be extracted out easily.
- There is no direct radiation from heaters.

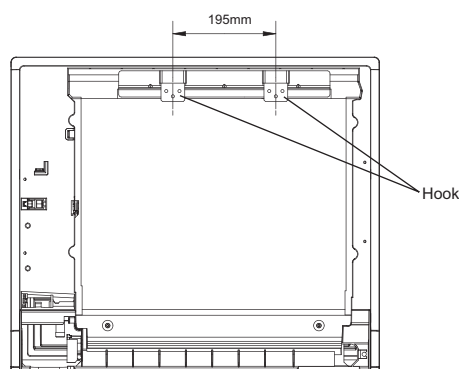
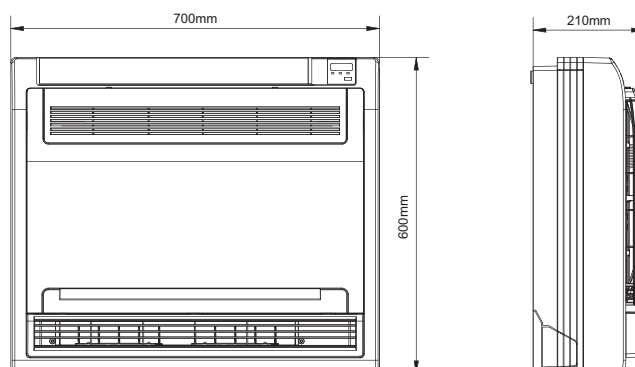


Fig.5-2



CAUTION

Keep indoor unit, outdoor unit, power supply wiring and transmission wiring at least 1 meter away from televisions and radios. This is to prevent image interference and noise in those electrical appliances. (Noise may be generated depending on the conditions under which the electric wave is generated, even if 1 meter is kept.)

When run some of the units among the indoor units in heating mode, voice of refrigeration flowing comes from some other non-operating indoor units, however, this is a normal phenomena.

When you are going to install the unit at a quiet requirement place, please consult the local distributor firstly.

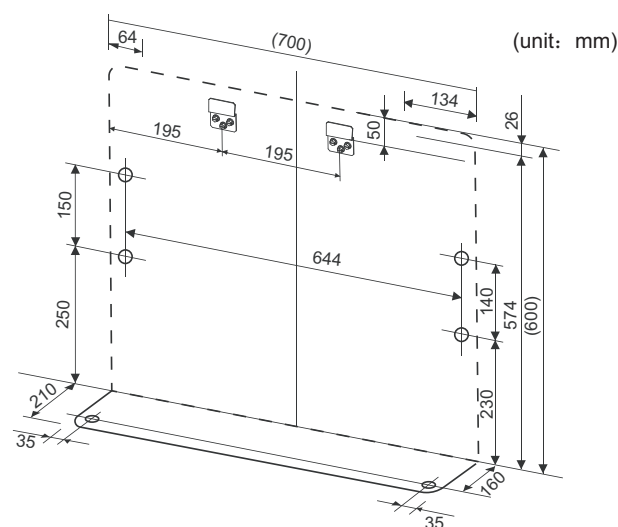


Fig.5-3

5.2 Install the main body

■ Removing front grille

- 1) Open the front panel.
- 2) Remove the 4 screws and remove the front grille while pulling it forward (3 tabs).

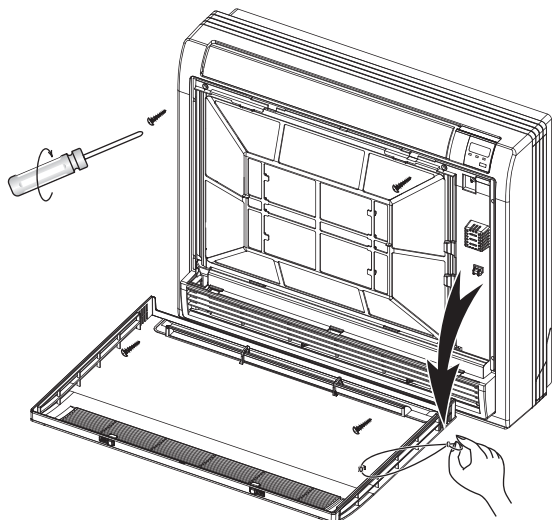


Fig.5-4

■ For wall installations, secure hook using 6 screws and the indoor unit using 4 screws

- Fix the hook with tapping screw onto the wall which can support the weight of the indoor unit. (Refer to Fig.5-5)

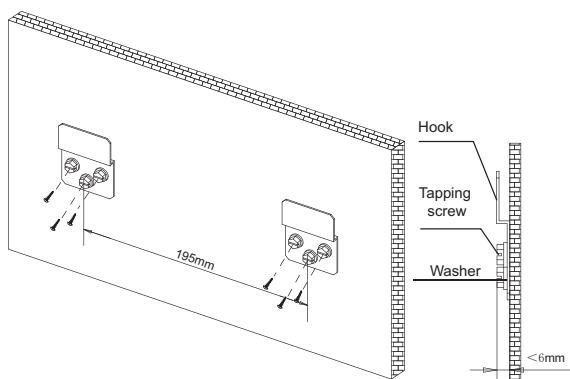


Fig.5-5

- Hang the indoor unit on the hook. (Refer to Fig.5-6)
(The bottom of body can touch with floor or suspended, but the body must install vertically.)

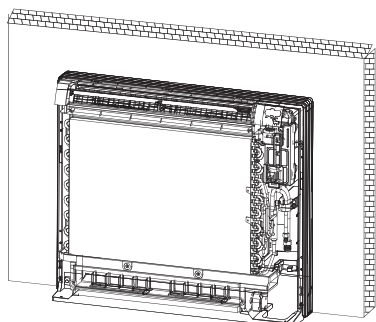


Fig.5-6

- Using 4 screws to secure the indoor unit. (Refer to Fig.5-7)

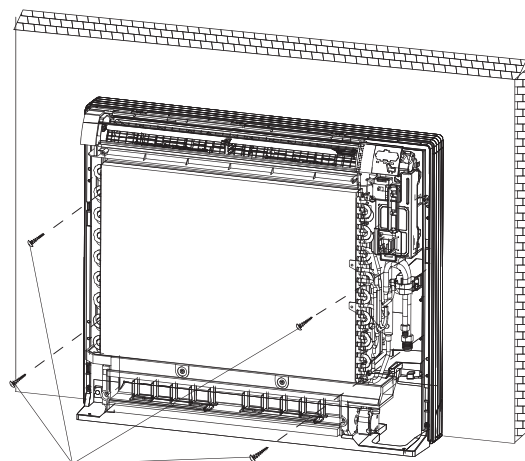


Fig.5-7

- For floor installations, secure the indoor unit using 6 screws. (Do not forget to secure to the rear wall.) (Refer to Fig.5-8)

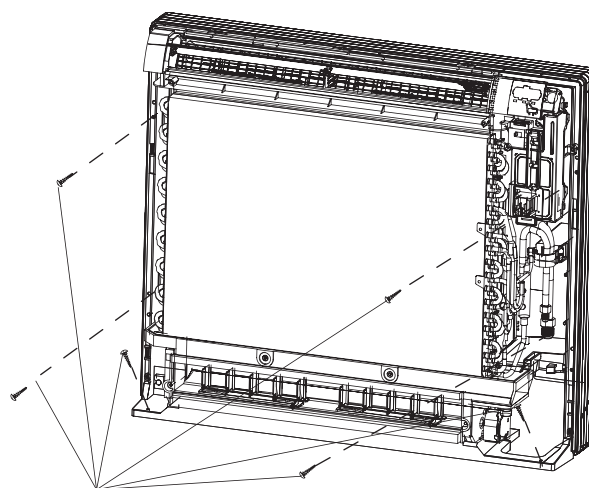


Fig.5-8

- Attach the front panel and front grille in their original positions once all connections are complete.

6. CONNECT THE DRAIN PIPE

6.1 Install indoor unit drain pipe

- The outlet has PTI screw bread, Please use sealing materials and pipe sheath(fitting) when connecting PVC.
- The drain pipe of indoor unit must be heat insulated, or it will condense dew, as well as the connections of the indoor unit.
- Hard PVC binder must be used for pipe connection, and make sure there is no leakage.
- With the connection part to the indoor unit, please be noted not to impose pressure on the side of indoor unit pipes.
- When the declivity of the drain pipe downwards is over 1/100, there should not be any winding.
- The total length of the drain pipe when pulled out transversely shall not exceed 20m, when the pipe is over long, a prop stand must be installed to prevent winding.
- Refer to the figures on the right for the installation of the pipes.
- The distance between the end of the drain pipe and the floor or the bottom of the waterspout must be more than 50mm, and do not put it in the water. when the condense dew directly discharge to the slot, the drain pipe must be bend to make a U-shaped block to interdict the stench.



CAUTION

Make sure all the connecting point of the drainage system is sealed to prevent leakage.

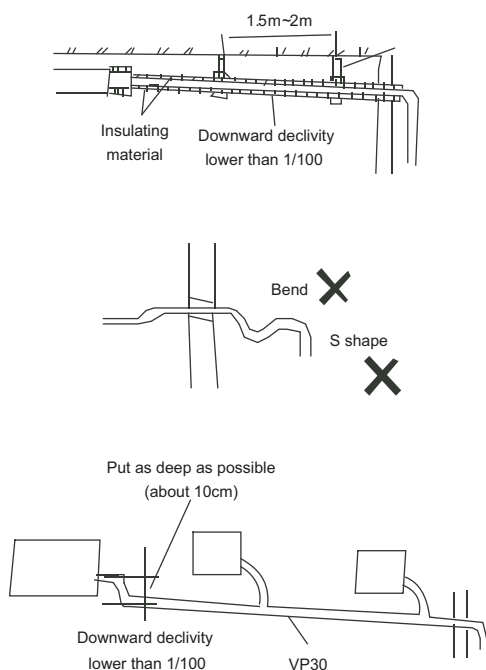


Fig. 6-1

6.2 Drainage test

- Check whether the drainpipe is unhindered.
- New built house should have drain test done before paving the ceiling.
 - Stow water of about 500ml to the water receiver through the stow tube.
 - Turn on the power, set the air conditioner under the mode of "COOLING". Check whether the drainpipe is unhindered(According to the length of the drainpipe, it drained after one minute.), and whether there's a leakage exist in all the connecting point.



NOTE

All the pictures in this manual are for explanation purpose only. They may be slightly different from the air conditioner you purchased(depend on model).The actual shape shall prevail.

7. INSTALL THE CONNECTING PIPE

7.1 The Procedure of Connecting Pipes



CAUTION

All field piping must be provided by a licensed refrigeration technician and must comply with the relevant local and national codes.

Do not let air, dust, or other impurities fall in the pipe system during the time of installation.

The connecting pipe should not be installed until the indoor and outdoor units have been fixed already.

Keep the connecting pipe dry, and do not let moisture in during installation.

Execute heat insulation work completely on both sides of the gas piping and the liquid piping. Otherwise, this can sometimes result in water leakage.

- Drill a hole in the wall (suitable just for the size of the wall conduit), then set on the fittings such as the wall conduit and its cover.
- Bind the connecting pipe and the cables together tightly with binding tapes.
Pass the bound connecting pipe through the wall conduit from outside. Be careful of the pipe allocation to do on damage to the tubing.
- Connect the pipes. Refer to "How to Connect the pipes" for details.
- Expel the air with a vacuum pump. Refer to "How to expel the air with a vacuum pump" for details.
- Open the stop valves of the outdoor unit to make the refrigerant pipe connecting the indoor unit with the outdoor unit in fluent flow.
- Check the leakage. Check all the joints with the leak detector or soap water.

- Cover the joints of the connecting pipe with the soundproof / insulating sheath (fittings), and bind it well with the tapes to prevent leakage.



CAUTION

Be sure to with insulating materials cover all the exposed parts of the flare pipe joints and refrigerant pipe on the liquid-side and the gas-side. Ensure that there is no gap between them.

Incomplete insulation may cause water condensation.

■ How to take indoor unit apart to connect the pipes

1 Open the front panel

- Slide the two stoppers on the left and right sides inward until they click. (Refer to Fig.7-1)

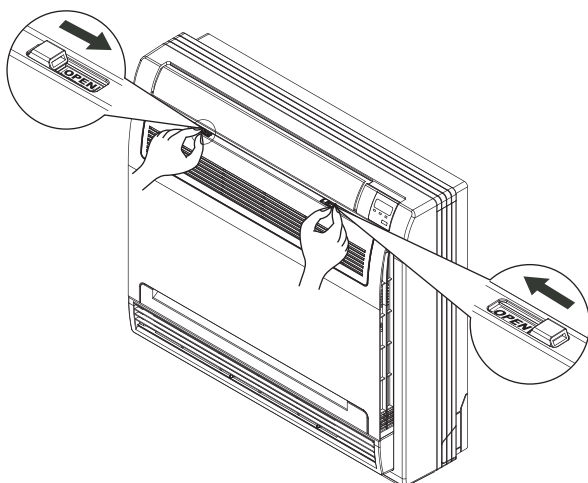


Fig.7-1

2 Remove the front panel .

- Remove the string. (Refer to Fig.7-2)
- Allowing the front panel to fall forward will enable you to remove it.

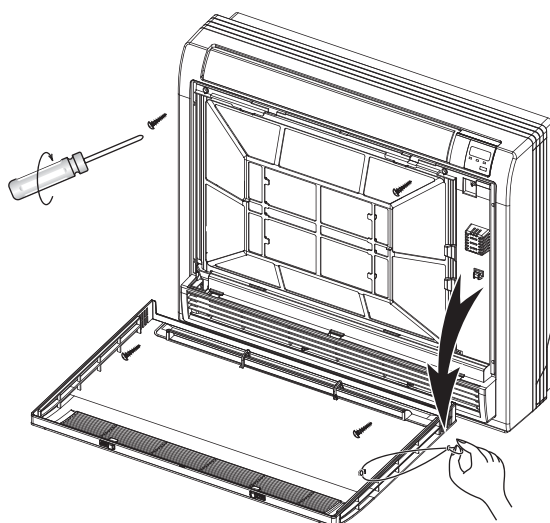


Fig.7-2

3 Remove the face plate .

- Remove the four screws. (Refer to Fig.7-2)
- Opening bottom of face plate for an angle that is 30 degrees, then the top of face plate will be take up. (Refer to Fig.7-3)

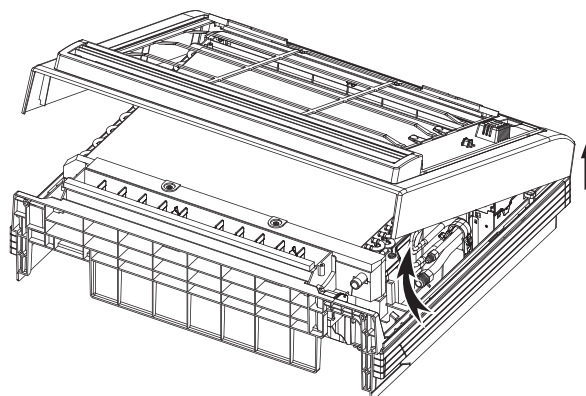


Fig.7-3

■ How to Connect the pipes

1 Flaring

- Cut a pipe with a pipe cutter. (Refer to Fig.7-4)

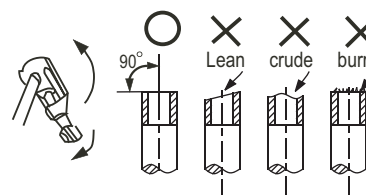


Fig.7-4

- Insert a flare nut into a pipe and flare the pipe.
- Refer to Table 7-1 for the dimension of flare nut spaces.

Table 7-1

Pipe gauge	Tightening torque	Flare dimension A min (mm) max		Flare shape
Φ6.4	14.2~17.2 N.m	8.3	8.7	
Φ9.5	32.7~39.9 N.m	12.0	12.4	
Φ12.7	49.5~60.3 N.m	15.4	15.8	
Φ15.9	61.8~75.4 N.m	18.6	19.0	
Φ19.1	97.2~118.6 N.m	22.9	23.3	

2 Connect the indoor unit at first, then the outdoor unit.

- Bend the tubing in proper way. Do not harm to them. (Refer to Fig.7-5)

Bend the pipe with thumb



min-radius 100mm

Fig.7-5

- The bending angle should not exceed 90°.
- Bending position is preferably in the middle of the bendable pipe. The larger the bending radius the better it is.
- Do not bend the pipe more than three times.
- When connecting the flare nut, coat the flare both inside and outside with either oil or ester oil and initially tighten by hand 3 or 4 turns before tightening firmly. (Refer to Fig.7-6)

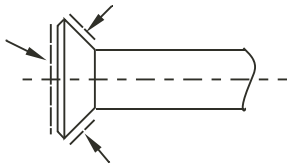


Fig.7-6

- Be sure to use both a spanner and torque wrench together when connecting or disconnecting pipes to /from the unit. (Refer to Fig.7-7)

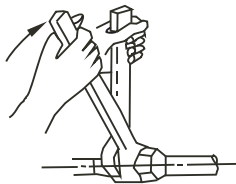


Fig.7-7



CAUTION

Too large torque will harm the bellmouthing and too small will cause leakage. Please determine the torque according to Table 7-2.

After the connecting work is finished, be sure to check that there is no gas leak.

■ How to expel the air with a vacuum pump

• Stop valve operation introduction

1 Opening stop valve

- Remove the cap and turn the valve counterclock-wise with the hexagon wrench.
- Turn it until the shaft stops. Do not apply excessive force to the stop valve. Doing so may break the valve body, as the valve is not a backseat type. Always use the special tool.
- Make sure to tighten the cap securely.

2 Closing stop valve

- Remove the cap and turn the valve clockwise with the hexagon wrench.
- Securely tighten the valve until the shaft contacts the main body seal.

Make sure to tighten the cap securely.

For the tightening torque, refer to the table below.

Table 7-2

Stop Valve size	Tightening torque N·M (Turn clockwise to close)		
	Shaft (valve body)	Cap (Valve lid)	Maintenance nut
Φ6.4	5.4~6.6	Hexagonal wrench 4 mm	13.5~16.5
Φ12.7	8.1~9.9		
			11.5~13.9



CAUTION

Always use a charge hose for service port connection.

After tightening the cap, check that no refrigerant leaks are present.

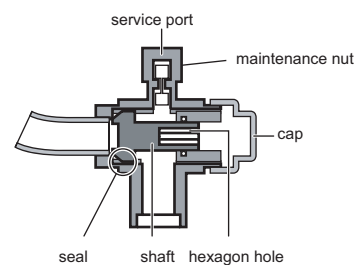


Fig.7-8

• Using the vacuum pump

- Loosen and remove the maintenance nuts of stop valves A and B, and connect the charge hose of the manifold valve to the service port of stop valve A. (Be sure that stop valves A and B are both closed)
- Connect the joint of the charge hose with the vacuum pump.
- Open the Lo-lever of the manifold valve completely.
- Turn on the vacuum pump. At the beginning of pumping, loosen the maintenance nut of stop valve B a little to check whether the air comes in (the sound of the pump changes, and the indicator of compound meter turns below zero). Then fasten the maintenance nut.
- When the pumping has finished, close the Lo-lever of the manifold valve completely and turn off the vacuum pump. Make pumping for 15 minutes or more and check that the compound meter indicates -76cmHg(-1X10⁵Pa)
- Loosen and remove the cap of stop valves A and B to open stop valve A and B completely, then fasten the cap.
- Disassemble the charge hose from the service port of stop valve A, and fasten the nut.

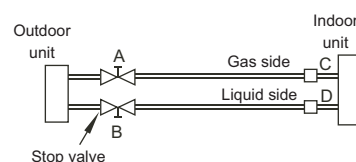


Fig.7-9

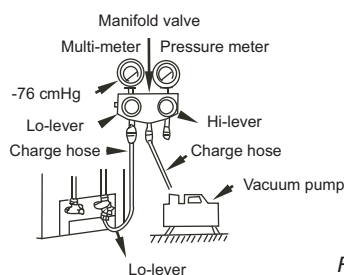


Fig.7-10

7.2 Refrigerant pipe installation



CAUTION

Ventilate the air if there was any refrigerant leakage during installation. Leaked refrigerant will generate poisonous gas if meeting fire.

Make sure there is no refrigerant leakage after installation. Leaked refrigerant will generate poisonous gas if meeting fire.

■ Allowed Length and Drop of Piping

Requirements are different when installing the Outdoor Unit, please refer to Outdoor Unit Installation Manual for detailed information.

■ Material and Size of the Piping

Table 7-3

Pipe Material		Copper Pipe for Air Conditioner
Model		22-45
Size(mm)	(Gas side)	Φ12.7
	(Liquid side)	Φ6.4

■ Refrigerant Volume to Be Added

- Refrigerant Volume to be added is calculated according to Outdoor Unit Installation Manual.
- Be save to add refrigerant measuring by a scale.



CAUTION

If refrigerant volume added is inadequate (too much or insufficient), the compressor malfunction will be caused. Be sure to calculate the refrigerant volume carefully.

The service man should note down the piping length and refrigerant volume added on the nameplate, which is on the Electric Control Box Cover of outdoor unit for to diagnose the compressor when compressor malfunction occurs.

8. WIRING

8.1 Electric Wiring



CAUTION

The appliance shall be installed in accordance with national wiring regulations.

The air conditioner should use separate power supply with rated voltage.

The external power supply to the air conditioner should have ground wiring, which is linked to the ground wiring of the indoor and outdoor unit.

The wiring work should be done by qualified persons according to circuit drawing.

An all-pole disconnection device which has at least 3mm separation distance in all pole and a residual current device(RCD) with the rating of above 10mA shall be incorporated in the fixed wiring according to the national rule.

Be sure to locate the power wiring and the signal wiring well to avoid cross-disturbance.

Do not turn on the power until you have checked carefully after wiring.



NOTE

Remark per EMC Directive 2004/108/EC

For to prevent flicker impressions during the start of the compressor (technical process), following installation conditions do apply.

- The power connection for the air conditioner has to be done at the main power distribution. The impedance of the distribution has to be low impedance.
- No other equipment has to be connected with this power line.
- For detailed installation acceptance please refer to your power supplier, if restrictions do apply for products like washing machines, air conditioners or electrical ovens.
- The temperature of refrigerant circuit will be high, please keep the interconnection cable away from the copper tube.
- For power details of the air conditioner refer to the rating plate of the product.
- For any question contact your local dealer.

8.2 Connect the cable

- The installation bearer of sensing device rotated to another side, and then takes off cover of electrical box. (Refer to Fig.8-1)
- Remove the electric box (1 screw). (Refer to Fig.8-1)

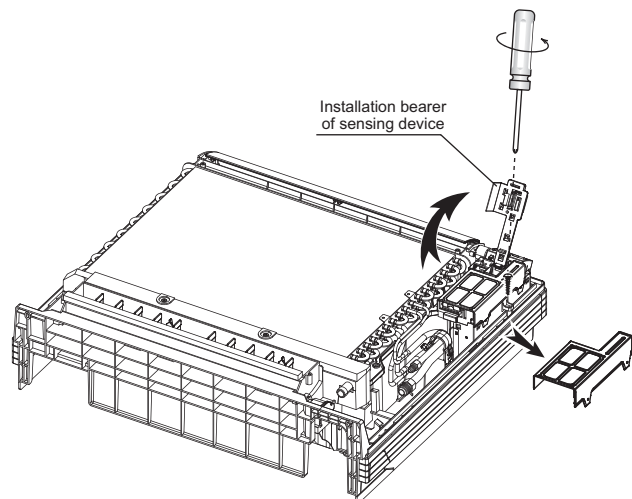


Fig.8-1

- Connect the connective cables to the terminals as identified with their respective mached numbers on the terminal block of indoor and outdoor units.
- Re-install the Indoor unit and outdoor unit

8.3 The Specification of Power

Too small capacitance lead to wiring overheating, and will cause a burning machine accident. Power specifications refers to Table 8-1.

Table 8-1

MODEL		22~45
Power	Phase	1-Phase
	Volt and frequency	220-240V~ 50Hz/60Hz
	Manual switch	15A
	Safety fuse	15A
Indoor unit power wiring	Power wire	Single wire 2.5mm ²
	Ground wiring	2.5mm ²
Outdoor /indoor signal wire	Amount	3
	Diameter	shielded wire 0.75mm ²

8.4 Wiring of Indoor Unit Power Supply and Signal Wire

- The indoor unit should use dedicated power supply different from the outdoor unit.
- The power supply, current leakage protection device and the switch of the indoor unit which connect to the same outdoor unit should be universal.
- The indoor unit power supply wire connect to port L and port N, port \oplus connect to the ground wire, the indoor unit signal wire connect to port P, port Q and port E which correspond to port P, port Q and port E of the outdoor unit.

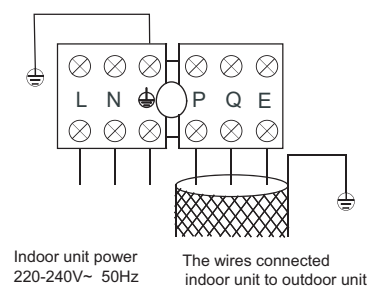


Fig.8-3

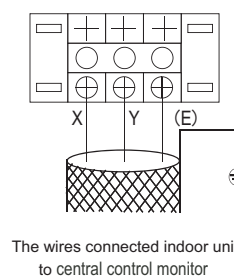


Fig.8-4

8.5 Wiring connection diagram

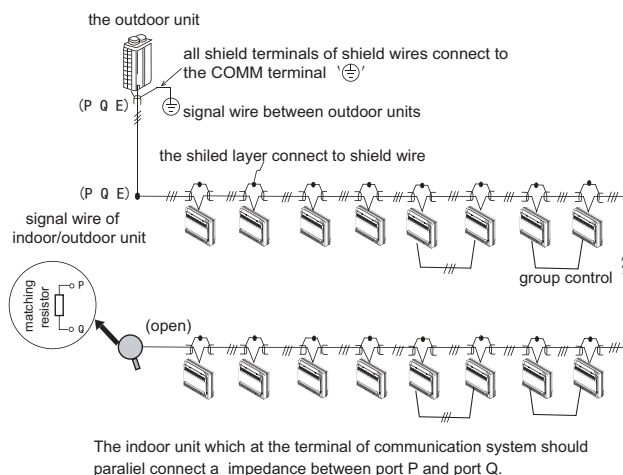


Fig.8-5

8.6 Code switch function

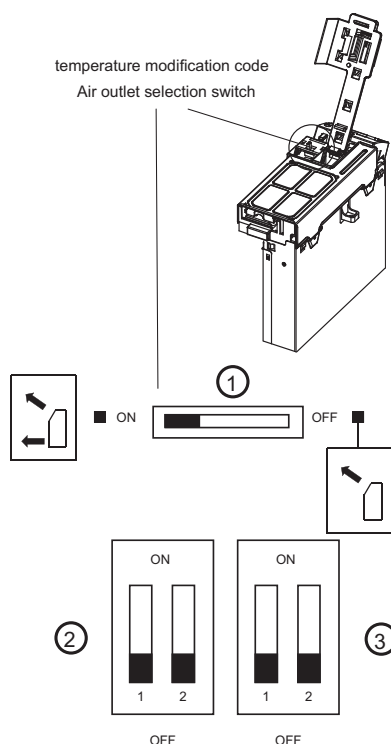


Fig.8-6

■ Select the code function.

- For the first code:

ON — the lower air outlet open.
OFF — the lower air outlet close.

- For the second code:

ON — "1"
OFF — "0"
"11" — +6°C
"10" — +4°C
"01" — +2°C
"00" — +0°C

- For the third code:

ON — super high fan speed.
OFF — extreme super high fan speed.

■ Description:

- Temperature corrected code "+0" means: in the heating, $T1 > TS + 0^{\circ}\text{C}$, the units' capacity should be 0.
- Temperature corrected code "+2" means: in the heating, $T1 > TS + 2^{\circ}\text{C}$, the units' capacity should be 0.
- Temperature corrected code "+4" means: in the heating, $T1 > TS + 4^{\circ}\text{C}$, the units' capacity should be 0.
- Temperature corrected code "+6" means: in the heating, $T1 > TS + 6^{\circ}\text{C}$, the units' capacity should be 0.

8.7 Telecontrol function

- When the system detects the circuit is open (low electrical level would be input to the chip detected terminal, when CN21 port without short connected / SW3 switched in OFF), it would responds as follows:

- Turn off the remote controller.
- The system would receive and remember the remote/wire control signal (but without settle the failure).
- The display lamp flashing in 1Hz, as far as the chip detects high electrical level has been input.
- System will not relieve the failure and output the malfunction information.

- When the system detects the circuit is close (high electrical level would be input to the chip detected terminal, when CN21 port has short connected / SW3 switched in ON), it would responds as follows:

- If the latest memory is the shut off mode, the unit would keeping in shut off, if the memory is the open mode, unit would restart again.
- The starting operation mode is equal to memory function.









CAUTION

It's needed to add a remote control and remote alarm to the unit. Take out the white short connector in the CN21 port from the main panel, accordingly joint the attached connective wires corresponding to the CN21 and REMOTE_ERROR ports, which color is the same as the color of the ports. The wires go all through the plastic cabinet above the main control board and lead out to from the wire outlet. They must be fixed together with the other wires at the hole orderly, avoid from wire be pressured by the J-box.









9. CONTROL

9.1 Switch setting





SW1 definition

ON 	<ul style="list-style-type: none"> ● 1 means factory test mode ● 0 means add. auto searching mode (default setting) 	ON 	<ul style="list-style-type: none"> ● 01 means DC fan static pressure is 1 (reserved)
ON 	<ul style="list-style-type: none"> ● 1 means DC fan is chosen ● 0 means AC fan is chosen 	ON 	<ul style="list-style-type: none"> ● Reserved
ON 	<ul style="list-style-type: none"> ● Reserved 	ON 	<ul style="list-style-type: none"> ● Reserved



SW2 definition

ON 	<ul style="list-style-type: none"> ● 00 means the temperature is 15 degrees when shutting down the unit for cold wind proof. 	ON 	<ul style="list-style-type: none"> ● 00 means the time of stopping indoor fan is 4 minutes
ON 	<ul style="list-style-type: none"> ● 01 means the temperature is 20 degrees when shutting down the unit for cold wind proof. 	ON 	<ul style="list-style-type: none"> ● 01 means the time of stopping indoor fan is 8 minutes
ON 	<ul style="list-style-type: none"> ● 10 means the temperature is 24 degrees when shutting down the unit for cold wind proof. 	ON 	<ul style="list-style-type: none"> ● 10 means the time of stopping indoor fan is 12 minutes
ON 	<ul style="list-style-type: none"> ● 11 means the temperature is 26 degrees when shutting down the unit for cold wind proof. 	ON 	<ul style="list-style-type: none"> ● 11 means the time of stopping indoor fan is 16 minutes



SW5 definition

ON 	<ul style="list-style-type: none"> ● 00 means temperature compensation is 6 degrees under heating mode 	ON 	<ul style="list-style-type: none"> ● 10 means temperature compensation is 4 degrees under heating mode
ON 	<ul style="list-style-type: none"> ● 01 means temperature compensation is 2 degrees under heating mode 	ON 	<ul style="list-style-type: none"> ● 11 means temperature compensation is 8 degrees under heating mode




SW6 definition

ON 	<ul style="list-style-type: none"> ● 1 means auto wind under auto mode ● 0 means auto wind under non auto mode
ON 	Reserved



SW7 definition

ON 	Standard configure
ON 	Last one in the network

J1, J2 definition

J1 	J1 no Jumpers means power off memory function
J1 	J1 Jumpers means no power off memory function
J2 	reserved

0/1 definition

ON 	Means 0
ON 	Means 1

9.2 Capacity set

Set the PCB board toggle of the indoor unit electric control box by the different use. After setting, make sure to switch off the power, and then switch on it. If you don't switch on the power, the capacity you set can not implement.

Horsepower code

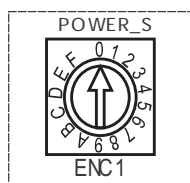


Table: 9-1

ENC1	Switch	For set horsepower
Note: No one are permitted to alter the cooling output which be set before shipping from factory, except licensed maintain personnel.	Switch cord	Capacity (Horsepower)
	0	2200 W
	1	2800 W
	2	3600 W
	3	4500 W



CAUTION

The system together have 64units (0-63), everyone has only system addresscode,If two addresses are the same in one system, the abnormal operation will occur.

Please switch off the power before setting,otherwise the unexpected error will occur.

9.3 Indoor unit address set

- If the outdoor unit has Auto-address function is not necessary to set manually the indoor unit address.
- If the outdoor unit does not have the Auto-address function or if you want to set the address manually, it should be done by remote control (wireless or wired).
- When connecting a centralized control, if all indoor units are MVD D4+ or MVD DC series, the central control can be connected directly to terminals XYE of the outdoor unit, you must activate the Auto-address dip-switch (except 3 pipes system).

Note: To make the addressing you can contact with Mundoclima after sales service.

10. TROUBLESHOOTING

Table. 10-1

NO.	Error code	Indication
1	Timer LED and run LED flash together,or show "FE"	No address when first time power on
2	Defrost LED flash or show "E0"	Mode conflict
3	Timer LED flash or show "E1"	Communication error between indoor and outdoor unit
4	Run LED flash or show "E2"	Temp.sensor (T1) error
5	Run LED flash or show "E3"	Temp.sensor (T2) error
6	Run LED flash or show "E4"	Temp.sensor (T2B) error
7	Timer LED flash slowly or show "E6"	DC FAN error
8	Defrost LED flash slowly or show "E7"	EEPROM error
9	Alarm LED flash slowly or show "Ed"	Outdoor unit error
10	Alarm LED flash or show "EE"	Water level alarm

11. TEST OPERATION

- The test operation must be carried out after the entire installation has been completed.
- Please confirm the following points before the test operation:
 - The indoor unit and outdoor unit are installed properly.
 - Tubing and wiring are correctly completed.
 - The refrigerant pipe system is leakage-checked.
 - The drainage is unimpeded.
 - The heating insulation works well.
 - The ground wiring is connected correctly.
 - The length of the tubing and the added stow capacity of the refrigerant have been recorded.
 - The power voltage fits the rated voltage of the air conditioner.
 - There is no obstacle at the outlet and inlet of the outdoor and indoor units.
 - The gas-side and liquid-side stop valves are both opened.
 - The air conditioner is pre-heated by turning on the power.
- According to the user's requirement, install the remote controller frame where the remote controller's signal can reach the indoor unit smoothly.
- Test operation

Set the air conditioner under the mode of "COOLING" with the remote controller, and check the following points. If there is any malfunction, please resolve it according to the chapter "Troubleshooting" in the "Owner's Manual".

- The indoor unit
 - Whether the switch on the remote controller works well.
 - Whether the buttons on the remote controller works well.
 - Whether the air flow louver moves normally.
 - Whether the room temperature is adjusted well.
 - Whether the indicator lights normally.
 - Whether the temporary buttons works well.
 - Whether the drainage is normal.
 - Whether there is vibration or abnormal noise during operation.
 - Whether the air conditioner heats well in the case of the HEATING/COOLING type.
- The outdoor unit
 - Whether there is vibration or abnormal noise during operation.
 - Whether the generated wind, noise, or condensed of by the air conditioner have influenced your neighborhood.
 - Whether any of the refrigerant is leaked.



CAUTION

A protection feature prevents the air conditioner from being activated for approximately 3 minutes when it is restarted immediately after shut off.



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