VRF SYSTEM INDOOR UNIT Wall Mounted Type



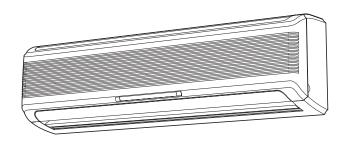
This Air Conditioner contains and operates with refrigerant R410A.

THIS PRODUCT MUST ONLY BE INSTALLED OR SERVICED BY QUALIFIED PERSONNEL.

Refer to Commonwealth, State, Territory and local legislation, regulations, codes, installation & operation manuals, before the installation, maintenance and/or service of this product.

INSTALLATION MANUAL

For authorized service personnel only.



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1. SAFETY PRECAUTIONS

- · Be sure to read this Manual thoroughly before installation.
- The warnings and precautions indicated in this Manual contain important information pertaining to your safety. Be sure to observe them.
- Hand this Manual, together with the Operating Manual, to the customer. Request the customer to keep them on hand for future use, such as for relocating or repairing the unit.

⚠ WARNING

This mark indicates procedures which, if improperly performed, might lead to the death or serious injury of the user.

- Request your dealer or a professional installer to install the indoor unit in accordance with this Installation Manual. An improperly installed unit can cause serious accidents such as water leakage, electric shock, or fire. If the indoor unit is installed in disregard of the instructions in the Installation Manual, it will void the manufacturer's warranty.
- Do not turn ON the power until all work has been completed. Turning ON the power before the work is completed can cause serious accidents such as electric shock or fire.
- If refrigerant leaks while work is being carried out, ventilate the area. If the refrigerant comes in contact with a flame, it produces a toxic gas.
- Installation work must be performed in accordance with national wiring standards by authorized personnel only.

△ CAUTION

This mark indicates procedures which, if improperly performed, might possibly result in personal harm to the user, or damage to property.

2. ABOUT THE UNIT

2.1. Precautions for using R410A refrigerant

↑ WARNING

- Do not introduce any substance other than the prescribed refrigerant into the refrigeration cycle. If air enters the refrigeration cycle, the pressure in the refrigeration cycle will become abnormally high and cause the piping to rupture.
- If there is a refrigerant leak, make sure that it does not exceed the concentration limit. If a refrigerant leak exceeds the concentration limit, it can lead to accidents such as oxygen starvation.
- Do not touch refrigerant that has leaked from the refrigerant pipe connections or other area. Touching the refrigerant directly can cause frostbite.
- If a refrigerant leak occurs during operation, immediately vacate the premises and thoroughly ventilate the area. If the refrigerant comes in contact with a flame, it produces a toxic gas.

2.2. Special tool for R410A

↑ WARNING

• To install a unit that uses R410A refrigerant, use dedicated tools and piping materials that have been manufactured specifically for R410A use. Because the pressure of R410A refrigerant is approximately 1.6 times higher than the R22, failure to use dedicated piping material or improper installation can cause rupture or injury. Furthermore, it can cause serious accidents such as water leakage, electric shock, or fire.

Tool name	Changes	
Gauge manifold	The pressure in the refrigerant system is extremely high and cannot be measured with a conventional gauge. To prevent erroneous mixing of other refrigerants, the diameter of each port has been changed. It is recommended to use a gauge manifold with a high pressure display range of -0.1 to 5.3 MPa and a low pressure display range of -0.1 to 3.8 MPa.	
Charging hose	To increase pressure resistance, the hose material and base size were changed. (The charging port thread diameter for R410A is 1/2 UNF 20 threads per inch.)	
Vacuum pump	A conventional vacuum pump can be used by installing a vacuum pump adapter. Be sure that the pump oil does not backflow into the system. Use one capable for vacuum suction of -100.7 kPa (5 Torr, -755 mmHg).	
Gas leakage detector	Special gas leakage detector for R410A refrigerant.	

2.3. Accessories

MARNING

- For installation purposes, be sure to use the parts supplied by the manufacturer or other prescribed parts.
 The use of non-prescribed parts can cause serious accidents such as the unit falling, water leakage, electric shock, or fire.
- The following installation parts are furnished. Use them as required.
- Keep the Installation Manual in a safe place and do not discard any other accessories until the installation work has been completed.

Name and Shape	Q'ty	Application
Operation Manual	1	
Installation Manual	1	(This book)
Wall hook bracket	1	For indoor unit installation
Tapping screw (Big) (M4 × 20mm)	12	For wall hook bracket installation
Insulation (Drain hose)	1	Adhesive type 105×600

3. INSTALLATION WORK

Especially, the installation place is very important for the split type air conditioner because it is very difficult to move from place to place after the first installation.

3.1. Selecting an installation location

Decide the mounting position together with the customer as follows.

△ WARNING

 Select installation locations that can properly support the weight of the indoor unit. Install the units securely so that they do not topple or fall.

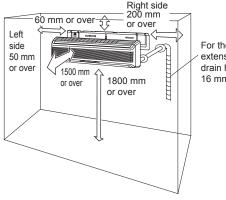
△ CAUTION

Do not install the indoor unit in the following areas:

- Area with high salt content, such as at the seaside. It will deteriorate metal parts, causing the parts to fall or the unit to leak water.
- Area filled with mineral oil or containing a large amount of splashed oil or steam, such as a kitchen. It will deteriorate plastic parts, causing the parts to fall or the unit to leak water.
- Area that generates substances that adversely affect the equipment, such as sulfuric gas, chlorine gas, acid, or alkali. It will cause the copper pipes and brazed joints to corrode, which can cause refrigerant leakage.
- Area that can cause combustible gas to leak, contains suspended carbon fibers or flammable dust, or volatile inflammables such as paint thinner or gasoline. If gas leaks and settles around the unit, it can cause a fire.
- Area where animals may urinate on the unit or ammonia may be generated.

- Do not use the unit for special purposes, such as storing food, raising animals, growing plants, or preserving precision devices or art objects.
 It can degrade the quality of the preserved or stored
- Do not install where there is the danger of combustible gas leakage.
- Do not install the unit near a source of heat, steam, or flammable gas.
- Install the unit where drainage does not cause any trouble.
- Install the indoor unit, outdoor unit, power supply cable, transmission cable, and remote control cable at least 1 m away from a television or radio receivers. The purpose of this is to prevent TV reception interference or radio noise. (Even if they are installed more than 1 m apart, you could still receive noise under some signal conditions.)
- If children under 10 years old may approach the unit, take preventive measures so that they cannot reach the unit.
- · Take precautions to prevent the unit from falling.
- Install the indoor unit on a place having a sufficient strength so that it withstands against the weight of the indoor unit.
- (2) The inlet and outlet ports should not be obstructed; the air should be able to blow all over the room.
- 3) Leave the space required to service the air conditioner.
- (4) Install the unit where connection to the outdoor unit is easy.
- (5) Install the unit where the connection pipe can be easily installed.
- 6) Install the unit where the drain pipe can be easily installed.
- (7) Install the unit where noise and vibrations are not amplified.
- (8) Take servicing, etc., into consideration and leave the spaces. Also install the unit where the filter can be removed
- (9) Do not install the unit where it will be exposed to direct sunlight.

3.2. Installation dimension



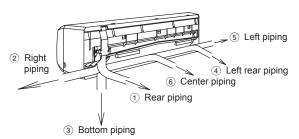
For the drain hose extension, use a drain hose with a 16 mm inside diameter.

3.3. Installation the unit

△ WARNING

 Install the air conditioner in a location which can withstand a load of at least five times the weight of the main unit and which will not amplify sound or vibration. If the installation location is not strong enough, the indoor unit may fall and cause injuries.

The piping can be connected in the six directions indicated by 1, 2, 3, 4, 5 and 6

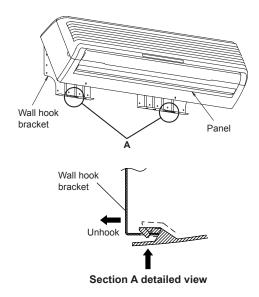


3.3.1. Installing the wall hook bracket

Removing the wall hook bracket

Remove the wall hook bracket in the following order.

- (1) Remove the hook inside the panel.
- (2) Pull off the wall hook bracket.



[Installation directly to a wall]

Refer to Fig. A for the installation hole dimensions of the wall hook bracket.

Before fastening the wall hook bracket to the wall with the screws, level it by tapping the hook at the center of bracket to the wall with the handle of a screwdriver.

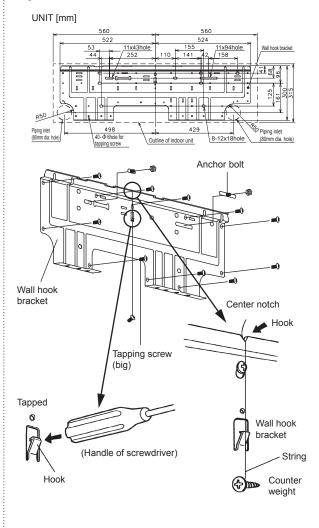
- (1) Fasten the wall hook bracket to the wall with 6 or more screws and anchor bolts through the holes near the outer edge of the bracket.
 - (Do not install the wall hook bracket at only one place or at an angle.)

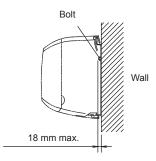
- (2) For a concrete wall, embed anchor bolts (10 mm dia.) into the wall at the wall hook bracket holes (11 × 43 mm hole and 11 × 94 mm hole).
 - (Allow the anchor bolts to stick out at least 18 mm from the wall. Use 2 bolts for flat concrete wall and 4 bolts for blister concrete wall.)
- (3) Install the nuts to the anchor bolts through the wall hook bracket.
- (4) Finally tighten the bolts and wood screws after confirming, using the level indicator, that the clamp is horizontal.

⚠ WARNING

- Install the wall hook bracket so that it is correctly positioned horizontally and vertically. If the wall hook bracket is tilted, water will drip to the floor.
- As the weight of the indoor unit is 15 to 18 kg, it should be installed after properly examining the place where it is intended to be installed. If the place is not strong enough, a plank or girder should be used to make the place sufficiently strong so that the wall can support the weight.

Fig. A



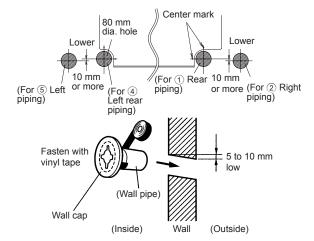


3.3.2. Cutting the hole in the wall for the connecting piping

⚠ WARNING

- If the wall pipe is not used, the cable may touch metal and cause electric leakage.
- (1) Cut a 80 mm diameter hole in the wall at the position shown in Fig. B.
- (2) For ① Rear piping and ④ Left rear piping, cut the hole to a point of intersection of center marks (Fig. B). For ② Right piping and ⑤ Left piping, cut the hole at least 10 mm below the holes for the rear piping and left rear piping for the drain water to flow freely (Fig. B). For ⑥ Center piping, cut a hole in the lower, center section of the wall hook bracket. (Refer to Fig. A. Do not cut a hole outside of the indoor unit outline.)
- (3) Cut the hole so that the outside end is lower (5 to 10 mm) than the inside end.
- (4) Always align the center of the wall hole. If misaligned, water leakage will occur.
- (5) Cut the wall pipe to match the wall thickness, stick it into the wall cap fasten with vinyl tape, and stick the pipe through the hole.

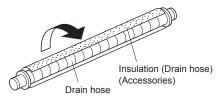
Fig. B



3.3.3. Attach the drain hose

⚠ CAUTION

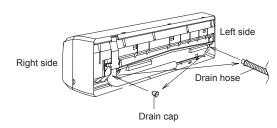
- Insert the drain hose and drain cap into the drain port, making sure that it comes in contact with the back of the drain port, and then mount it. If the drain hose is not connected properly, leaking will occur.
- Wrap the insulation around the drain hose, making sure that there are no gaps.
- · Attach the Insulation (Drain hose) to the drain hose.

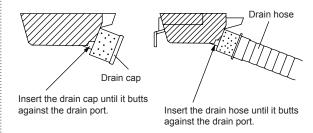


[For ① Rear piping, ② Right piping and ③ Bottom piping]
The drain hose and drain cap are used as they are.

[For 4 Left rear piping, 5 Left piping and 6 Center piping]

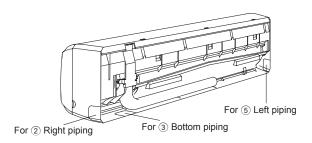
• Remove the drain cap and drain hose. Mount the drain cap and drain hose to the drain port on its opposite side.





3.3.4. Cut-out for piping on front cover

[For ② Right piping, ③ Bottom piping and ⑤ Left piping]
Use a metal shears or other cutting tool to cut along the groove in the plastic for the piping that will coming out of the front cover.



4. PIPE INSTALLATION

⚠ CAUTION

- Be more careful that foreign matter (oil, water, etc.) does not enter the piping than with refrigerant R410A models.
 Also, when storing the piping, securely seal the openings by pinching, taping, etc.
- While welding the pipes, be sure to blow dry nitrogen gas through them.

4.1. Selecting the pipe material

⚠ CAUTION

- · Do not use existing pipes.
- Use pipes that have clean external and internal sides without any contamination which may cause trouble during use, such as sulfur, oxide, dust, cutting waste, oil, or water.
- It is necessary to use seamless copper pipes.
 Material: Phosphor deoxidized seamless copper pipes.
 It is desirable that the amount of residual oil is less than 40 mg/10 m.
- Do not use copper pipes that have a collapsed, deformed, or discolored portion (especially on the interior surface). Otherwise, the expansion valve or capillary tube may become blocked with contaminants.
- Improper pipe selection will degrade performance. As an air conditioner using R410A incurs pressure higher than when using conventional refrigerant, it is necessary to choose adequate materials.
- Thicknesses of copper pipes used with R410A are as shown in the table.
- Never use copper pipes thinner than those indicated in the table even if they are available on the market.

Thicknesses of Annealed Copper Pipes (R410A)

Pipe outside diameter [mm (in.)]	Thickness [mm]
6.35 (1/4)	0.80
9.52 (3/8)	0.80
12.70 (1/2)	0.80
15.88 (5/8)	1.00
19.05 (3/4)	1.20

4.2. Pipe requirement

A CAUTION

 Refer to the Installation Manual of the outdoor unit for description of the length of connecting pipe or for difference of its elevation. • Use pipe with water-resistant heat insulation.

⚠ CAUTION

 Install heat insulation around both the gas and liquid pipes. Failure to do so may cause water leaks.
 Use heat insulation with heat resistance above 120 °C. (Reverse cycle model only)

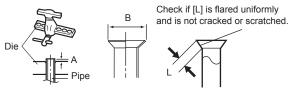
In addition, if the humidity level at the installation location of the refrigerant piping is expected to exceed 70 %, install heat insulation around the refrigerant piping. If the expected humidity level is 70-80 %, use heat insulation that is 15 mm or thicker and if the expected humidity exceeds 80 %, use heat insulation that is 20 mm or thicker. If heat insulation is used that is not as thick as specified, condensation may form on the surface of the insulation.

In addition, use heat insulation with heat conductivity of 0.045 W/(m·K) or less (at 20 $^{\circ}$ C).

4.3. Flare connection (pipe connection)

4.3.1. Flaring

- Use special pipe cutter and flare tool exclusive for R410A.
- Cut the connection pipe to the necessary length with a pipe cutter.
- (2) Hold the pipe downward so that cuttings will not enter the pipe and remove any burrs.
- (3) Insert the flare nut (always use the flare nut attached to the indoor and outdoor units respectively) onto the pipe and perform the flare processing with a flare tool. Use the special R410A flare tool, or the conventional flare tool. Leakage of refrigerant may result if other flare nuts are used.
- (4) Protect the pipes by pinching them or with tape to prevent dust, dirt, or water from entering the pipes.



Pipe outside diameter [mm (in.)]	Dimension A [mm] Flare tool for R410A, clutch type	Dimension B ⁰ .4 [mm]
6.35 (1/4)		9.1
9.52 (3/8)	0 to 0.5	13.2
12.70 (1/2)		16.6
15.88 (5/8)		19.7
19.05 (3/4)		24.0

When using conventional flare tools to flare R410A pipes, the dimension A should be approximately 0.5 mm more than indicated in the table (for flaring with R410A flare tools) to achieve the specified flaring. Use a thickness gauge to measure the dimension A.

Width across flats



Pipe outside diameter [mm (in.)]	Width across flats of Flare nut [mm]
6.35 (1/4)	17
9.52 (3/8)	22
12.70 (1/2)	26
15.88 (5/8)	29
19.05 (3/4)	36

4.3.2. Bending pipes

- The pipes are shaped by your hands or pipe bender. Be careful not to collapse them.
- Do not bend the pipes in an angle more than 90°.
- When pipes are repeatedly bend or stretched, the material will harden, making it difficult to bend or stretch them any more. Do not bend or stretch the pipes more than three times.

A CAUTION

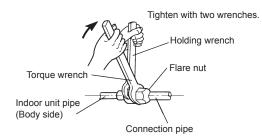
- · To prevent breaking of the pipe, avoid sharp bends.
- If the pipe is bent repeatedly at the same place, it will break

4.3.3. Pipe connection

When the flare nut is tightened properly by your hand, hold the body side coupling with a separate spanner, then tighten with a torque wrench.

↑ CAUTION

- Hold the torque wrench at its grip, keeping it in the right angle with the pipe, in order to tighten the flare nut correctly.
- Tighten the flare nuts with a torque wrench using the specified tightening method. Otherwise, the flare nuts could break after a prolonged period, causing refrigerant to leak and generate a hazardous gas if the refrigerant comes into contact with a flame.



⚠ CAUTION

- Be sure to apply the pipe against the port on the indoor unit and the outdoor unit correctly. If the centering is improper, the flare nut cannot be tightened smoothly. If the flare nut is forced to turn, the threads will be damaged.
- Do not remove the flare nut from the indoor unit pipe until immediately before connecting the connection pipe.
- Do not use mineral oil on flared part. Prevent mineral oil from getting into the system as this would reduce the lifetime of the units.

Flare nut [mm (in.)]	Tightening torque [N·m (kgf·cm)]
6.35 (1/4) dia.	16 to 18 (160 to 180)
9.52 (3/8) dia.	32 to 42 (320 to 420)
12.70 (1/2) dia.	49 to 61 (490 to 610)
15.88 (5/8) dia.	63 to 75 (630 to 750)
19.05 (3/4) dia.	90 to 110 (900 to 1,100)

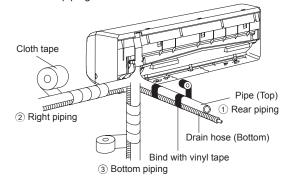
5. FORMING THE DRAIN HOSE AND PIPE

⚠ CAUTION

- Do not remove the flare nut from the indoor unit pipe until immediately before connecting the connection pipe.
- To prevent breaking of the pipe, avoid sharp bends.
- If the pipe is bent repeatedly at the same place, it will break.

[For ① Rear piping, ② Right piping and ③ Bottom piping]

- Install the indoor unit piping in the direction of the wall hole and bind the drain hose and pipe together with vinyl tape.
- Install the piping so that the drain hose is at the bottom.



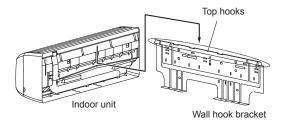
⚠ CAUTION

 Do not wrap the tape too tightly on drain hose. If the tape is too tight (as shown in the Figure below) the insulation effect will be lost and the moisture from condensation may accumulate.

Bad Example



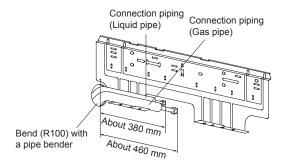
- Perform "6. ELECTRICAL WIRING" before performing this piping.
- Wrap the pipes of the indoor unit that are visible from the outside with cloth tape.
- After passing the indoor piping and drain hose through the wall hole, hang the indoor unit on the hooks at the top of the wall hook bracket.



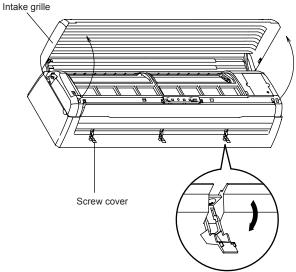
[For ${}^{}$ 4 Left rear piping, ${}^{}$ 5 Left piping and ${}^{}$ 6 Center piping]

- · Preset the end of the pipe.
- For ④ Left rear piping and ⑥ Center piping, route the connection pipes through the wall.
- Bend the connection piping to a bend radius not less than 100 mm and position the piping no more than 50 mm from the wall.

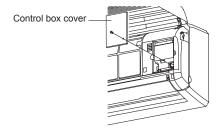
(4) Left rear piping)



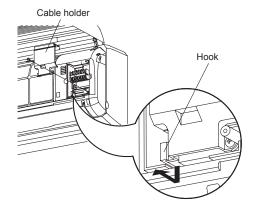
(1) Open the screw cover and intake grille.



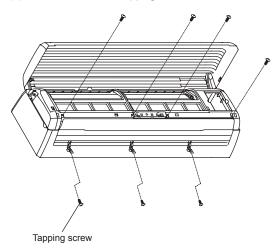
(2) Remove the control box cover.



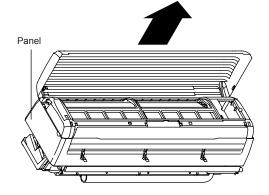
(3) While minding the cable holder hook, remove the cable holder.



(4) Remove the seven tapping screws.

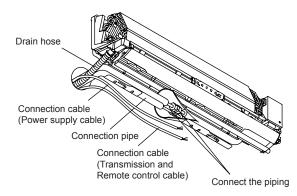


(5) Remove the panel.



- (6) Mount the indoor unit to the wall hook bracket.
- (7) Mount the drain hose and pipe to the indoor unit.

(4) Left rear piping)



 Piping work can be made easier by laying out, shaping, and temporarily fastening the connection pipe and connection cable beforehand.

6. ELECTRICAL WIRING

↑ WARNING

- Electrical work must be performed in accordance with this Manual by a person certified under the national or regional regulations. Be sure to use a dedicated circuit for the unit. An insufficient power supply circuit or improperly performed electrical work can cause serious accidents such as electric shock or fire.
- Before starting work, check that power is not being supplied to the indoor unit and outdoor unit.
- Use the included connection cables and power cables or ones specified by the manufacturer. Improper connections, insufficient insulation, or exceeding the allowable current can cause electric shock or fire.
- For wiring, use the prescribed type of cables, connect them securely, making sure that there are no external forces of the cables applied to the terminal connections. Improperly connected or secured cables can cause serious accidents such as overheating the terminals, electric shock, or fire.
- Do not modify the power cables, use extension cables, or use any branches in the wiring. Improper connections, insufficient insulation, or exceeding the allowable current can cause electric shock or fire.
- Match the terminal board numbers and connection cable colors with those of the outdoor unit. Erroneous wiring may cause burning of the electric parts.
- Securely connect the connection cables to the terminal board. In addition, secure the cables with wiring holders. Improper connections, either in the wiring or at the ends of the wiring, can cause a malfunction, electric shock, or fire.
- Always fasten the outside covering of the connection cable with the cable clamp. (If the insulator is chafed, electric leakage may occur.)
- Securely install the electrical box cover on the unit.
 An improperly installed electrical box cover can cause serious accidents such as electric shock or fire through exposure to dust or water.

- Install sleeves into any holes made in the walls for wiring.
 Otherwise, a short circuit could result.
- Install a ground leakage breaker. In addition, install the ground leakage breaker so that the entire AC main power supply is cut off at the same time. Otherwise, electric shock or fire could result.
- Install a ground leakage breaker.
 If a ground leakage breaker is not installed, it may cause electric shock or fire.
- Always connect the ground cable.
 Improper grounding work can cause electric shocks.
- Install the remote control cables so as not to be direct touched with your hand.
- Perform wiring work in accordance with standards so that the air conditioner can be operated safely and positively.
- Connect the connection cable firmly to the terminal board. Imperfect installation may cause a fire.

↑ CAUTION

- · Ground the unit.
- Do not connect the ground cable to a gas pipe, water pipe, lightning rod, or a telephone ground cable. Improper grounding may cause electric shock.
- Do not connect power supply cable to the transmission or remote control terminals, as this will damage the product.
- Never bundle the power supply cable and transmission cable together. Bundling these cables together will cause miss operation.
- When handling PCB, static electricity charged in the body may cause malfunction of the PCB. Follow the cautions below:
 - Establish a ground for the indoor and outdoor units and peripheral devices.
 - · Cut power (breaker) off.
 - Touch metal part of the indoor and outdoor units for more than 10 seconds to discharge static electricity charged in the body.
 - Do not touch terminals of parts and patterns implemented on PCB.

6.1. Electrical requirement

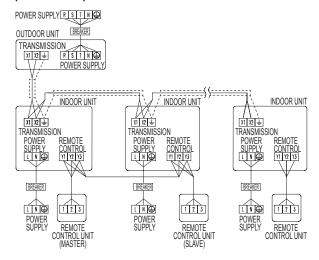
Voltage rating	230 V
Operating range	198 - 264 V

	Recom- mended cable size (mm²)	Cable type	Remark
Power supply cable	2.5	Type245 IEC57 or equivalent	1ø 50 Hz 198 - 264 V 2 Cable + ground
Transmission cable	0.33	LONWORKS compatible cable	22 AWG LEVEL 4 (NEMA) non-polar 2 core, twisted pair solid core diameter 0.65 mm
Remote control cable	0.33	Sheathed PVC cable*	Polar 3 core Twisted pair

^{*:} Use shielded cable in accordance with local rules for remote control cable.

6.2. Wiring method

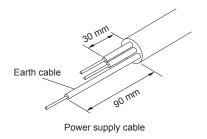
(EXAMPLE)



6.3. Unit wiring

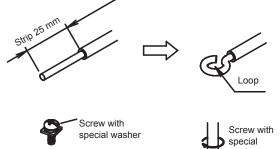
· Before attaching the cable to terminal block.

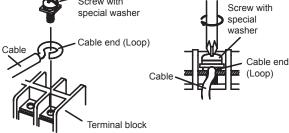
6.3.1. Power supply cable



A. For solid core wiring

- (1) To connect the electrical terminal, follow the below diagram and connect after looping it around the end of the cable.
- (2) Use the specified cables, connect them securely, and fasten them so that there is no stress placed on the terminals.
- (3) Use an appropriate screwdriver to tighten the terminal screws. Do not use a screwdriver that is too small, otherwise, the screw heads may be damaged and prevent the screws from being properly tightened.
- (4) Do not tighten the terminal screws too much, otherwise, the screws may break.
- (5) See the table for the terminal screw tightening torques.
- (6) Please do not fix two power supply cables with one screw.



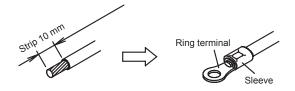


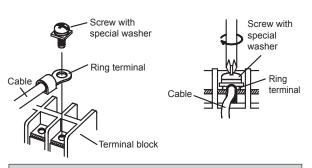
⚠ WARNING

 When using solid core cables, do not use the ring terminal. If you use the solid core cables with the ring terminal, the ring terminal's pressure bonding may malfunction and cause the cables to abnormally heat up.

B. For strand wiring

- Use ring terminals with insulating sleeves as shown in the figure below to connect to the terminal block.
- (2) Securely clamp the ring terminals to the cables using an appropriate tool so that the cables do not come loose.
- (3) Use the specified cables, connect them securely, and fasten them so that there is no stress placed on the terminals.
- (4) Use an appropriate screwdriver to tighten the terminal screws. Do not use a screwdriver that is too small, otherwise, the screw heads may be damaged and prevent the screws from being properly tightened.
- (5) Do not tighten the terminal screws too much, otherwise, the screws may break.
- (6) See the table for the terminal screw tightening torques.
- (7) Please do not fix two power supply cables with one screw.



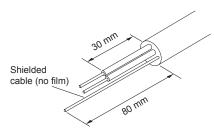


MARNING

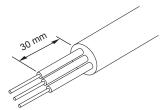
 Use ring terminals and tighten the terminal screws to the specified torques, otherwise, abnormal overheating may be produced and possibly cause heavy damage inside the unit.

Terminal number	Tightening torque
M4 screw	1.2 to 1.8 N·m
(Power supply/L, N, GND)	(12 to 18 kgf·cm)

6.3.2. Transmission and Remote control cable



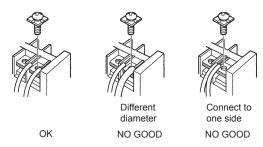
Transmission cable



Remote control cable

- Connect remote control and transmission cables as shown in Fig. B.
- · When the two cables are attached.

Fig. B



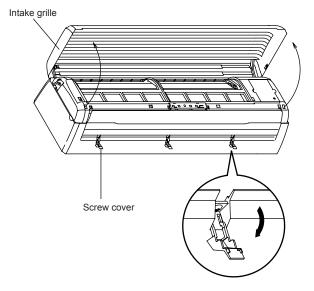
MARNING

 Tighten the terminal screws to the specified torques, otherwise, abnormal overheating may be produced and possibly cause heavy damage inside the unit.

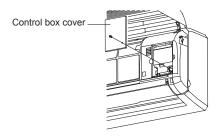
Terminal number	Tightening torque
M4 screw (Transmission/X1, X2) (Remote control/Y1, Y2, Y3)	0.8 to 1.2 N·m (8 to 12 kgf·cm)

A CAUTION

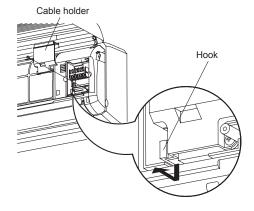
- To peel the film from the lead cable, use a dedicated tool that will not damage the conductor cable.
- When installing a screw on the terminal block, do not cut the cable by overtightening the screw. On the other hand, an undertightened screw can cause faulty contact, which will lead to a communication failure.
- Remove it with the following sequence in case of the state with the grille.
- (1) Open the intake grille.



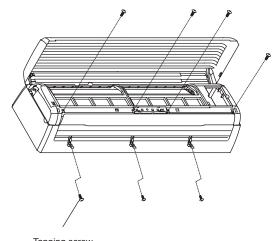
(2) Remove the control box cover.



(3) While minding the cable holder hook, remove the cable holder.

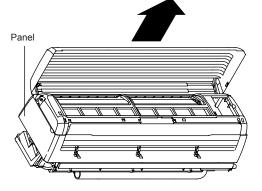


(4) Remove the seven tapping screws.



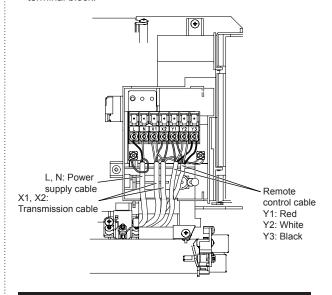
Tapping screw

(5) Remove the panel.



6.4. Wiring

 Connect the end of the connection cable fully into the terminal block.



7. FIELD SETTING

- Refer to the following three items for setting the FIELD SETTING address. The respective settings are included below.
- (1) IU AD, REF AD SW settings ... This section
- (2) Remote control settings Refer to the wired or wireless remote control manual for detailed setting information. (Set IU AD,
- REF AD SW to 0)
 (3) Automatic address settings ... Refer to the indoor unit manual for detailed setting information. (Set IU AD, REF AD SW to 0)

⚠ CAUTION

 Be sure to turn OFF the power before performing the field setting.

7.1. Setting the address

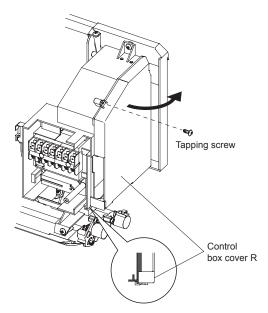
Manual address setting method

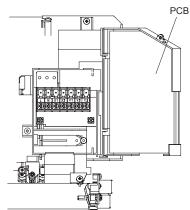
 The indoor unit address and the refrigerant circuit address can also be set up through the wireless remote controller

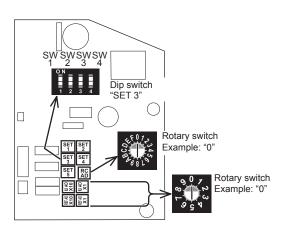
⚠ CAUTION

· Use an insulated screwdriver to set the dip switches.

· Open the control box cover R.







⚠ CAUTION

· Be careful not to make mistakes for switch settings.

(1) Indoor unit address

Rotary switch (IU AD × 1)....Factory setting "0" Rotary switch (IU AD × 10)....Factory setting "0" When connecting multiple indoor units to one refrigerant system, set the address at IU AD SW as shown in the Table A

(2) Refrigerant circuit address

Rotary switch (REF AD × 1)....Factory setting "0" Rotary switch (REF AD × 10)....Factory setting "0" In the case of multiple refrigerant systems, set REF AD SW as shown in the Table A for each refrigerant system. Set to the same refrigerant circuit address as the outdoor unit.

Setting	Setting range	Type of switch		
Indoor unit address	0–63	Setting example 2	907 254 IU AD × 10	9 0 7 2 2 3 1U AD × 1
Refrigerant circuit address	0–99	Setting example 63	907 954 REFAD × 10	9 0 7 2 5 4 REF AD × 1

Table A

Address	Rotary Switch Setting		Address		ary
Refrigerant		ND SW		Switch Setting IU AD SW	
circuit	× 10	× 1	Indoor unit	× 10	× 1
0	0	0	0	0	0
1	0	1	1	0	1
2	0	2	2	0	2
3	0	3	3	0	3
4	0	4	4	0	4
5	0	5	5	0	5
6	0	6	6	0	6
7	0	7	7	0	7
8	0	8	8	0	8
9	0	9	9	0	9
10	1	0	10	1	0
11	1	1	11	1	1
12	1	2	12	1	2
	:	:	:	:	:
99	9	9	63	6	3

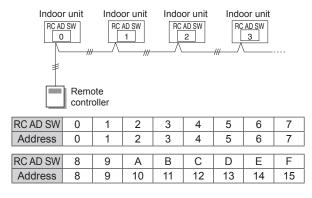
Do not set the indoor unit address (IU AD SW) at 64 to 99. It may result failure.

(3) Remote controller address

Rotary switch (RC AD SW)....Factory setting "0" When connecting multiple indoor units to one standard wired remote controller, set the address at RC AD SW in sequence from 0.

Setting	Setting range	Type of switch	
Remote controller address	0–15	Setting example 0 RC AD	

Example If 4 indoor units are connected.



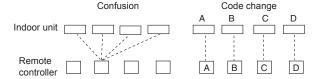
7.2. Custom code setting

Selecting the custom code prevents the indoor unit mix-up. (Fig. B)

(Up to 4 codes can be set.)

Perform the setting for both the indoor unit and the remote controller.

Fig. B



Custom code setting for indoor unit

Set the DIP SW SET 3 SW1, 2, referring to the Table B.

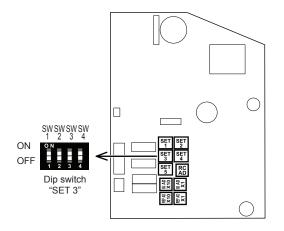


Table B

		Custom code			
		A (Factory setting)	В	С	D
DI	PSW				
S	ET 3	OFF	ON	OFF	ON
8	SW1				
DI	PSW				
S	ET 3	OFF	OFF	ON	ON
5	SW2				

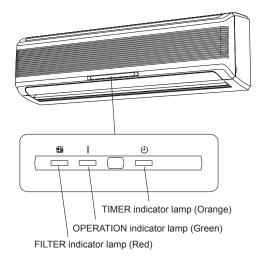
7.3. Function setting

- FUNCTION SETTING can be performed with the wired or wireless remote control.
 - (The remote control is optional equipment)
- Refer to the wired or wireless remote control manual for detailed setting information. (Set IU AD, REF AD SW to 0)
- Refer to "7.1. Setting the address" for indoor unit address and refrigerant circuit address settings.
- Turn the power of the indoor unit ON before starting the setting.
 - * Turning on the power indoor units initializes EEV, so make sure the piping air tight test and vacuuming have been conducted before turning on the power.
 - * Also check again to make sure no wiring mistakes were made before turning on the power.

Function details

Function	Function number		Setting number	Default	Details	
Filter		00	Default	0	Adjust the filter cleaning interval notification. If the notification is	
indicator	11	01	Longer		too early, change to setting 01. If the notification is too late, change	
interval		02	Shorter		to setting 02.	
		00	Enable	0		
Filter		01	Disable		Enable or disable the filter	
indicator action	13	02	Display only on central remote control		indicator. Setting 02 is for use with a central remote control.	
Horizon-		00	Default	0	Adjust the horizontal swing airflow	
tal swing airflow	24	01	Left half		direction. (For horizontal swing equipped	
direction		02	Right half		models)	
Cool air		00	Default	0	Adjust the cool air trigger temperature. To lower the trigger	
tem- perature	30	01	Adjust (1)		temperature, use setting 01. To raise the trigger temperature, use	
trigger		02	Adjust (2)		setting 02.	
11-4		00	Default	0	Adjust the hot air trigger temperature. To lower the trigger	
Hot air tem-	31	31	01	Adjust (1)		temperature by 6 degrees C, use setting 01. To lower the trigger
perature trigger		02	Adjust (2)		temperature by 4 degrees C, use setting 02. To raise the trigger	
		03	Adjust (3)		temperature, use setting 03.	
Auto	40	00	Enable		Enable or disable automatic system restart after a power	
restart		01	Disable	0	outage.	
External	46	00	Start/Stop	0	Allow an external controller to start or stop the system, or to perform an emergency shutdown. *If an emergency shutdown is	
control	46	01	Emergency stop		performed from an external controller, all refrigerant systems will be disabled.	
		00	All	0	Ohanna tha taonat fanana ''	
Error report target	47	01	Display only on central remote control		Change the target for reporting errors. Errors can either be reported in all locations, or only on the wired remote.	

7.3.1. Button name and function



7.3.2. Checking the function settings

 Press and hold the "MANUAL AUTO" button on the indoor unit for 3 seconds to check the function settings. It is necessary to disconnect the power in order to return to normal operation mode.

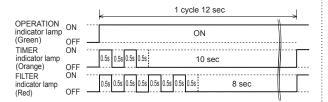
(1) Indoor unit and refrigerant address indication

Indication pattern

	Indication pattern			
Indicator name	Indoor unit address	Refrigerant address		
OPERATION indicator lamp (Green)	ON	Flash (1.0s ON/1.0s OFF)		
TIMER indicator lamp (Orange)	Address: tens p	place (0.5s ON/0.5s OFF)		
FILTER indicator lamp (Red)	Address: ones place (0.5s ON/0.5s OFF)			

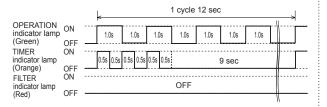
· Indoor unit address example

(Example) ADDRESS: 24



· Refrigerant address example

(Example) ADDRESS: 30



· Setting details

Function number	ltem	Setting number
01	Indoor unit address	00~63
02	Refrigeration address	00~99

For use with a remote control, set all rotary switches to 0, and refer to "7.1. Setting the address" for details.

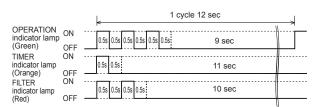
All switches are set to 0 at the factory.

(2) Others

Indication pattern

Indicator Name	Indication pattern
OPERATION	Function number; tens place
indicator lamp (Green)	(0.5s ON/0.5s OFF)
TIMER indicator	Function number; ones place (0.5s
lamp (Orange)	ON/0.5s OFF)
FILTER indicator	Setting number: (0 - 9) (0.5s ON/0.5s
lamp (Red)	OFF)

(Example) Function: 31, Setting number: 2



8. FINISHING

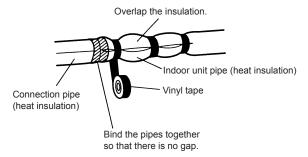
Before performing this section, perform a sealing test. (Refer to the installation Manual for the outdoor unit.)

8.1. Connection pipe, cable and drain hose

Insulate the drain hose, if necessary, to prevent it from freezing.

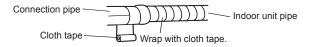
- (1) Insulate between pipes.
- For ① Rear, ② Right and ③ Bottom piping, overlap the connection pipe heat insulation and indoor unit pipe heat insulation and bind them with vinyl tape so that there is no gap
- For (4) Left rear, (5) Left and (6) Center piping, butt the connection pipe heat insulation and indoor unit pipe heat insulation together and bind them with vinyl tape so that there is no gap.

(1) Rear, 2) Right and 3) Bottom piping)



(For 4 Left rear, 5 Left and 6 Center piping)

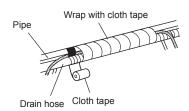
- Wrap the area which accommodates the rear piping housing section with cloth tape.
- · Bind the connection cable with vinyl tape.
- Bundle the piping and drain hose together by wrapping them with cloth tape over the range within which they fit into the rear piping housing section.



Connection cable (Power supply cable)

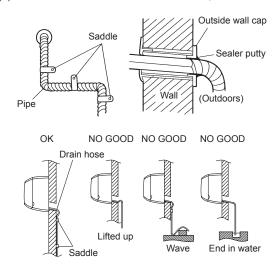


Connection cable (Transmission and Remote control cable)



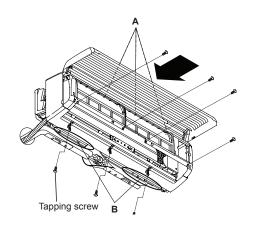
- (2) Temporarily fasten the connection cable along the connection pipe with vinyl tape.
- (3) Fasten the connection pipe to the outside wall with a saddle, etc.

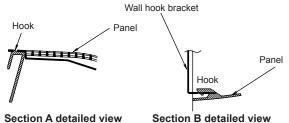
- (4) Fill the gap between the outside wall pipe hole and the pipe with sealer so that rain water and wind cannot blow in
- (5) Fasten the drain hose to the outside wall, etc.



8.2. Installing front cover

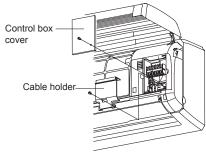
(1) Hang the inside panel hook and then mount the panel and secure it with seven tapping screws.



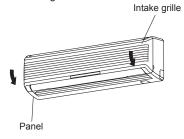


(2) Secure the cable holder with tapping screw.

(3) Secure the control box cover with tapping screw.

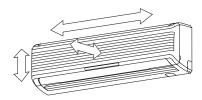


(4) Close the intake grille.

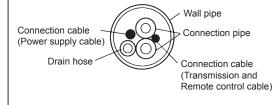


Check that:

- The top and bottom hooks are hooked firmly and the indoor unit does not move to the front and rear or left and right.
- The indoor unit is accurately positioned horizontally and vertically.
- When connected from the left rear, the drain hose is at the bottom left of the wall pipe.

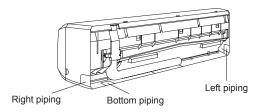


(View from indoor)



8.3. Piping outlet sealing

When taking it out in three directions where the pipe is shown in the figure below, be sure to seal the hole with a sealant, such as putty.



9. TEST OPERATION

9.1. Test operation using PCB (Outdoor unit)

 Refer to the Installation Manual for the outdoor unit if the PCB for the outdoor unit is to be used for the test operation.

9.2. Test operation using remote controller

- Refer to the Installation Manual for the remote control unit to perform the test operation using the remote control unit.
- When the air conditioner is being test run, the OPERATION and TIMER indicator lamp flash slowly at the same time.

10. CHECK LIST

Pay special attention to the check items below when installing the indoor unit(s). After installation is complete, be sure to check the following check items again.

Check items	If not performed correctly	Check box
Has the indoor unit	Vibration, noise,	
been installed correctly?	indoor unit may drop	
Has there been a check for gas leaks (refrigerant pipes)?	No cooling, No heating	
Has heat insulation work been completed?	Water leakage	
Does water drain easily from the indoor units?	Water leakage	
Is the voltage of the power source the same as that indicated on the label on the indoor unit?	No operation, heat or burn damage	
Are the wires and pipes all connected completely?	No operation, heat or burn damage	
Is the indoor unit grounded?	Short circuit	
Is the connection cable the specified thickness?	No operation, heat or burn damage	
Are the inlets and outlets free of any obstacles?	No cooling, No heating	
After installation is completed, has the proper operation and handling been explained to the user?		

11. ERROR CODES

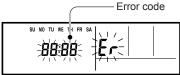
If you use a wired type remote control, error codes will appear on the remote control display. If you use a wireless remote control, the lamp on the photodetector unit will output error codes by way of blinking patterns. See the lamp blinking patterns and error codes in the table below.

Abn	ormal displ	MC and		
OPERATIOR indicator lamp (green)		FILTER indicator lamp (red)	Wired Remote Controller Error CODE	Abnormal contents
• (1)	• (2)	♦	12	Remote control abnormal communication
• (1)	• (4)	\Diamond	14	Anomalous network communications
• (1)	• (6)	♦	15	Abnormal parallel communication
• (3)	• (1)	♦	16	Abnormal power frequency
• (3)	• (2)	♦	32	Abnormal model information / abnormal EEPROM accession
• (4)	• (1)	♦	4	Abnormal room temperature thermistor
• (4)	• (2)	♦	42	Abnormal indoor heat exchanger temperature thermistor
• (5)	• (1)	♦	51	Abnormal indoor fan motor
• (5)	• (3)	♦	53	Abnormal drainage
• (9)	• (15)	♦	911	Abnormal outdoor unit

Display mode $\bullet : 0.5s ON / 0.5s OFF$ $\diamondsuit : 0.1s ON / 0.1s OFF$

(): Number of flashing

Wired Remote Controller Display



Т

VRF 系统 室内机组 挂壁式

<u></u> 注意

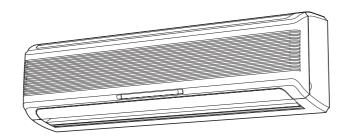
R410A 制冷剂

本产品需由专业人员安装或维修。

在安装、保养及(或)维修本产品前,请先阅读联邦、州、 地区及地方之法律、规则、法规、及安装手册。

安装说明书

只供授权专业维修人员使用。



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1. 安全注意事项

- 安装之前务必彻底阅读该说明书。
- 该说明书指出的警告和注意事项包含与您的安全密切相关的 重要信息。请务必遵循这些信息。
- 将该说明书与操作手册交给用户。请用户将它们收藏好,以 便日后使用,例如更换机组位置或对机组进行修理。

⚠ 警告

该标志表示如果步骤执行失当,可能会导致 用户死亡或严重伤害。

- 请您的经销商或专业安装人员依照该安装说明书安装机组。 机组安装不适当可能造成严重的事故,例如漏水、电击或 火灾。如果没有依照安装说明书中的说明来安装室内机组,则制造商不会保用。
- 未完成所有工作之前请勿打开电源。在工作完成之前打开电源可能造成严重的事故,例如电击或火灾。
- 如果制冷剂在执行工作时泄漏,请为该区域通风。如果制冷剂接触火,就会产生有害气体。
- 务必由授权的维修人员按照国家接线标准执行安装工作。

△ 注意

该标志表示,如果步骤执行不当,可能会导致用户人身伤害或财产损害。

2. 关于机组

2.1. 使用 R410A 制冷剂时的注意事项

♪ 警告

- 请勿让除规定的制冷剂之外的其他物质进入制冷循环。如果空气进入制冷循环,则其中的压力将变得异常之高,并且会造成管道破裂。
- 如果制冷剂泄漏,请确保它未超过浓度限制。如果制冷剂 泄漏超过了浓度限制,则可能造成缺氧等事故。
- 请勿触摸从制冷剂管接头等部位泄漏的制冷剂。直接触摸 制冷剂会导致冻伤。
- 如果运行过程中发生制冷剂泄漏,请立即离开建筑物,并对该区域彻底通风。如果制冷剂接触火,就会产生有害气体。

2.2. R410A 的专用工具

⚠ 警告

要安装使用 R410A 制冷剂的机组,请使用专供 R410A 使用而制造的专用工具和管道材料。由于 R410A 制冷剂的压力约是 R22 的 1.6 倍,未使用专用的管道材料或不当的安装可能会导致管道破裂或造成人身伤害。另外,还可能会导致如漏水、电击或火灾等严重事故。

工具名称	变更内容
压力表歧管	压力较高,不能使用传统的压力计测量。为了避免与其它制冷剂错误混合,每个接口的直径均已更改。建议使用具有高压力显示范围为-0.1至5.3 MPa以及低压力显示范围为-0.1至3.8 MPa的压力表歧管。
充注软管	为了增加抗压能力, 软管材料和尺寸已变更。 (R410A 的充注接口螺纹直径为 1/2 UNF 每英寸 20 个螺纹。)
真空泵	可以通过安装真空泵适配器使用传统的真空泵。 确保真空泵油不会回流到系统中。 使用真空吸力能够达到 -100.7 kPa (5 Torr, -755 mmHg) 的真空泵。
气体泄漏检测器	HFC 制冷剂 R410A 的专用气体泄漏检测器。

2.3. 附件

⚠ 警告

- 安装时,请务必使用制造商供应的部件或其他规定部件。 使用非规定部件可能造成严重的事故,例如机组掉落、漏水、电击或火灾。
- 本机配有以下安装部件。请按照需要使用。
- 请妥善保管安装说明书,并且不要在安装工作完成前丢弃任何其它附件。

名称和形状	数量	应用
	数里	四州
使用说明书	1	
安装说明书	1	(本书)
挂墙托架	1	用于室内机安装
自攻螺钉 (大) (M4 × 20mm)	12	用于安装壁挂支架
绝缘材料 (排水软管)	1	不干胶型 105 × 600

3. 安装工作

对于分体式空调,安装地点尤为重要,因为首次安装后,移动 位置非常困难。

3.1. 选择安装位置

请按照以下要求与用户一起决定安装位置。

⚠ 警告

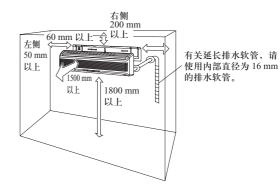
 选择能有效支撑室内机重量的安装位置。将机组安装牢固, 以免倾倒或坠落。

⚠ 注意

请勿将机组安装在下列区域:

- 盐含量高的区域,例如海边。这会损坏金属部件,使部件 掉落或使机组漏水。
- 充满矿物油或包含大量溅油或蒸气的区域,例如厨房。这会损坏塑料部件,使部件掉落或使机组漏水。
- 会产生对设备有负面影响的物质(例如硫磺气体、氯气、 酸或碱)的区域。这会腐蚀铜管和铜焊接合,从而造成制 冷剂泄漏。
- 可能造成易燃气体泄漏、含有悬浮碳纤维或易燃尘埃,或者如涂料稀释剂或汽油等挥发性易燃物的区域。如果气体泄漏并沉积在机组周围,可能会造成火灾。
- 动物可能会在机组上排尿或者可能会产生氨的区域。
- 请勿将机组用于特殊用途,例如存放食物、饲养动物、栽培植物或保存精密装置或艺术品。
 这可能降低保存或存放对象的质量。
- 请勿安装在可能泄漏燃烧气体的地方。
- 请勿将机组安装在靠近热源、蒸汽或易燃气体的地方。
- 将机组安装在排水不会造成任何问题的地方。
- 请在距离电视机和收音机1m以外的地方进行室内机和室外机、电力接线、信号接线及遥控接线的安装,以免发生图像失真和声音失真。(然而,即使将上述机组和接线安装在距电视机和收音机1m以外的地方,根据电波的状况的不同,声音失真也可能无法避免。)
- 如10岁以下的儿童有可能接触到时,请采取适当的预防措施,使他们无法接触机组。
- 请采取预防措施防止机组坠落。
- (1) 将室内机安装在具有足够强度的地方,以便能承受室内机的重量。
- (2) 请勿堵塞进气口和出气口。空气应能吹向整个房间。
- (3) 请保留可以维修空调的空间。
- (4) 将机组安装在容易连接室内机的地方。
- (5) 请在方便安装连接管的地方安装机组。
- (6) 请在方便安装排水管的地方安装机组。
- (7) 将机组安装在不会将噪音和振动放大的地方。
- (8) 应考虑之后的维修等情况,并留出空间。将机组安装在可以拆卸过滤网的地方。
- (9) 请勿在易受阳光直射处安装机组。

3.2. 安装尺寸

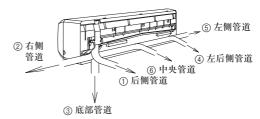


3.3. 安装机组

♠ 警告

将空调安装在能够承受至少主机重量5倍并且不会将噪音或振动放大的地方。如果安装位置不够坚固,室内机可能会坠落,引起人身伤害。

可以按①、②、③、④、⑤和⑥所指示的六个方向连接管道。

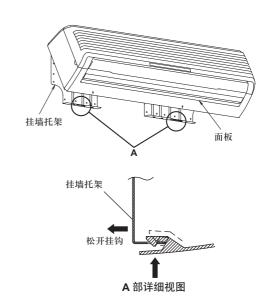


3.3.1. 安装挂墙托架

拆卸挂墙托架

按以下顺序卸下挂墙托架:

- (1) 松开面板内部的挂钩。
- (2) 拉下挂墙托架。



[直接安装在墙上]

有关安装挂墙托架的孔口尺寸,请参照图 A。

用螺钉将挂墙托架固定在墙壁上之前,请用螺丝刀的手柄将挂墙托架中央的吊压向墙壁,并将挂墙托架置于水平位置。

- (1) 用 6 个以上的螺钉和膨胀螺栓,通过挂墙托架边缘部分的 孔,将挂墙托架固定在墙壁上。
 - (切勿尝试只利用一个支持点固定挂墙托架或使挂墙托架倾斜。)
- (2) 如果在混凝土墙上安装,请在挂墙托架孔(11 × 43 mm 孔和 11 × 94 mm 孔)的位置上,将膨胀螺栓(直径 10 mm)嵌入墙内。

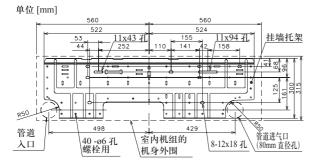
(膨胀螺栓的外露于墙壁部分的尺寸应不小于 18 mm。平坦的混凝土墙应使用 2 个螺栓,有气泡的混凝土墙则应使用 4 个螺栓。)

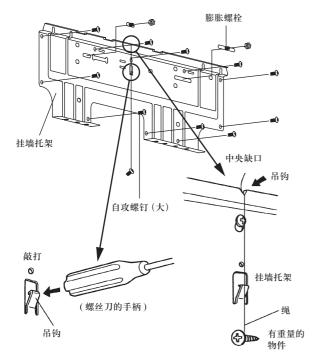
- (3) 将螺母安装在穿过挂墙托架的膨胀螺栓上。
- (4) 利用水平仪确认挂墙托架位于水平位置后, 收紧螺栓和木螺钉。

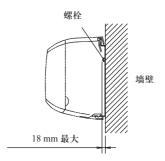
⚠ 警告

- 挂墙托架应在水平和垂直方向上正确安装,若有倾斜,将 会发生水滴掉落问题。
- 由于室内机组的重量达 15 至 18 kg,因此应在安装前仔细检查安装地点是否稳固。如果安装地点不够稳固,须使用厚木板或横梁加固安装部位的结构,以便墙壁足以支撑机组的重量。

图 **A**





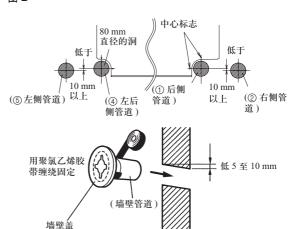


3.3.2. 在墙上开洞以便连接管道

⚠ 警告

- 如果不使用墙壁管道,电线可能会触及金属部分,并引致漏电。
- (1) 在图 B 中指示的位置,在墙上凿开一个直径 80 mm 的洞。
- (2) 如果在① 后侧和 ④ 左后侧连接管道,请在中心标志的交叉点上凿洞(图 B)。 如果在② 右侧和⑤ 左侧连接管道,请在比后侧管道和左后侧管道开口低至少 10 mm 的位置凿洞,以便排水畅顺(图 B)。 如果在⑥ 中央连接管道,请在挂墙托架中央下方的位置凿洞。 (请参照图 A 请勿在室外机组的机身范围外凿洞。)
- (3) 凿洞后,位于室外的开口必须比室内的开口低(5至10 mm)。
- (4)必须对齐墙洞的中心位置。如位置不对齐,可能会出现漏水问题。
- (5) 按墙壁厚薄切取足够长度的墙壁管道,并将其插入墙壁盖内,用聚氯乙烯胶带缠绕固定,然后将管道插入墙洞内。

图 B



墙壁

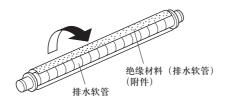
(室外)

(室内)

3.3.3. 连接排水软管

⚠ 注意

- 将排水软管和排水管盖插入排水口内,并确保其紧贴排水口的最深处,然后将其固定。如果排水软管连接不当,便可能会漏水。
- 用绝热材料包住排水软管,确保并没有缝隙。
- 固定排水软管的绝热材料(排水软管)。

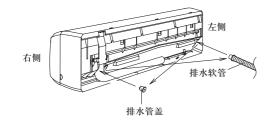


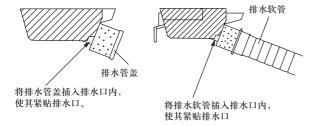
[使用 ① 后侧管道、② 右侧管道和 ③ 底部管道时]

• 请按一般情况使用排水软管和排水管盖。

[使用 ④ 左后侧管道、⑤ 左侧管道和 ⑥ 中央管道]

卸下排水管盖和排水软管。将排水管盖和排水软管固定在另一边的排水口上。

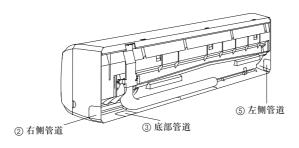




3.3.4. 为穿过前盖板的管道裁孔

[使用②右侧管道、③底部管道和⑤左侧管道时]

 使用金属剪或其他切割工具,沿著塑料凹槽为穿过前盖板的 管道裁孔。



4. 管道安装

⚠ 注意

- 要小心注意的是,杂质(油、水等)不会像制冷剂R410A型号那样进入管道。另外,存放管道时,通过夹住、捆绑等牢固密封管口。
- 焊接管道时, 务必向里面充入干燥的氮气。

4.1. 选择管材

⚠ 注意

- 不要使用原有的管道。
- 使用的管道应内外表面清洁,不含在使用过程中可能引起 故障的污染物,例如硫、氧化物、灰尘、切屑、油或水。
- 必须使用无缝铜管。 材料:经过磷脱氧处理的无缝铜管 残油量最好小于 40 mg/10 m。
- 使用的铜管不能带有压扁、变形或变色的部分(尤其是在内部表面)。否则,膨胀阀或毛细管可能会被污染物堵塞。
- 管道选择不当会降低性能。由于使用 R410A 的空调会比使用传统的制冷剂时承受更高的压力,因此需要选择适当的材料。
- · 使用 R410A 的铜管厚度如表所示。
- 绝对不要使用厚度不足于表中所示的铜管,即使市场上有售。

退火铜管的厚度 (R410A)

管道外径 [mm (in.)]	厚度 [mm]
6.35 (1/4)	0.80
9.52 (3/8)	0.80
12.70 (1/2)	0.80
15.88 (5/8)	1.00
19.05 (3/4)	1.20

4.2. 管道要求

⚠ 注意

- 有关连接管道长度或不同标高的规格,请参见室外机的安装说明书。
- 使用带防水热绝缘材料的管道。

⚠ 注意

请在气体和液体管道周围安装绝热材料。否则可能会导致 漏水。

请使用抗热能力超过 120℃的绝热材料。(仅限逆循环型)此外,如果安装制冷剂管道的地方的湿度可能会超过 70%,请在制冷剂管道周围安装绝热材料。

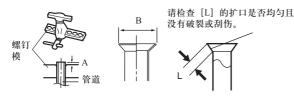
如果预计的湿度为 70-80%, 请使用 15 mm 或更厚的绝热材料,如果预计的湿度超过 80%,请使用 20 mm 或更厚的绝热材料。如果使用的绝热材料未达到指定的厚度,可能会在材料表面形成冷凝。

此外,请使用热传导率为 0.045 W/(m•K) 或以下(20℃时)的绝热材料。

4.3. 扩口接头(管接头)

4.3.1. 扩口

- 请使用专用的切管机和 R410A 专用的扩口工具。
- (1) 使用切管机将连接管道截成所需的长度。
- (2) 向下按住水管以避免切屑进入管道并去除毛刺。
- (3) 将扩口螺母(必须使用分别连接到室内机和室外机的扩口螺母)插入管道,并使用扩口工具执行扩口工序。请使用专用的 R410A 扩口工具或传统的扩口工具。如果使用其它扩口螺母,会导致制冷剂泄漏。
- (4) 请夹住或用胶带保护管道,防止灰尘、污物或水进入管道。



管道外径 [mm (in.)]	尺寸A [mm] R410A的扩口工具, 离合式	尺寸 B ឿ₄[mm]
6.35 (1/4)		9.1
9.52 (3/8)		13.2
12.70 (1/2)	0至0.5	16.6
15.88 (5/8)		19.7
19.05 (3/4)		24.0

当使用传统的扩口工具对 R410A 管道进行扩口时,尺寸 A 应比表中(针对使用 R410A 扩口工具进行扩口)所示的尺寸大约 0.5 mm 以获得指定的扩口。使用厚度测量仪测量尺寸 A。





管道外径 [mm (in.)]	扩口螺母的扳手开口 宽度 [mm]
6.35 (1/4)	17
9.52 (3/8)	22
12.70 (1/2)	26
15.88 (5/8)	29
19.05 (3/4)	36

4.3.2. 弯管加工

- •用手或弯管器使管道成形。注意请勿将它们压扁。
- ·弯曲管道时角度不应超过90°。
- 如果反复弯曲或拉伸管道,材料将变硬,以至很难再次弯曲或拉伸。弯曲或拉伸管道的次数不应超过三次。

⚠ 注意

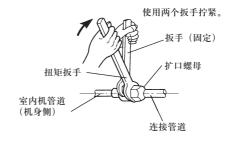
- 为了防止管道破裂,应避免过度的弯曲。
- 如果管道在同一位置反复弯曲, 它会破裂。

4.3.3. 管道连接

用手正确地拧紧扩口螺母时,用单独的扳手按住机身侧沟槽连接件,然后用扭矩扳手拧紧。

⚠ 注意

- 握住扭矩扳手的手柄,使其与管道成90度,以便顺利地 拧紧扩口螺母。
- 按照指定的拧紧方法,用扭矩扳手拧紧扩口螺母。否则长时间以后,扩口螺母会破裂,导致制冷剂泄漏,如果制冷剂与火焰接触,还会产生有害气体。



⚠ 注意

- 务必将管道与室内机和室外机的接口正确连接。如果没有对齐,扩口螺母将无法顺利紧固。如果强行旋转扩口螺母,将损坏螺纹。
- 只有在对连接管道进行连接之前才能从室内机管道上拆除 扩口螺母。
- 请勿在扩口部件上使用矿物油。 防止矿物油进入系统,因为这样会降低机组的寿命。

扩口螺母[mm (in.)]	拧紧扭矩[N·m (kgf·cm)]
直径6.35 (1/4)	16至18 (160至180)
直径9.52 (3/8)	32至42 (320至420)
直径12.70 (1/2)	49至61 (490至610)
直径15.88 (5/8)	63至75 (630至750)
直径19.05 (3/4)	90至110 (900至1,100)

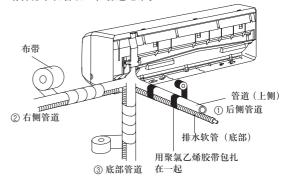
5. 设置排水软管和管道

⚠ 注意

- 直到连接连接管前,不要从室内机组上取下扩口螺母。
- 为防止管道破裂,请避免过度的弯曲管道。
- 如管道在同一位置被重复弯曲,将会破裂。

[使用 ① 后侧管道、② 右侧管道和 ③ 底部管道时]

- 沿墙洞的方向设置室内机组管道,并用聚氯乙烯胶带将排水 软管和管道包扎在一起。
- 请将排水软管放置在管道之下。



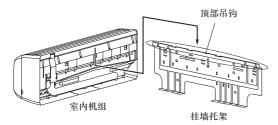
⚠ 注意

切勿将排水软管上的胶带绑得太紧。如果胶带过紧(如下图所示),绝热效果便会下降,同时会造成凝水积聚。

不良示例



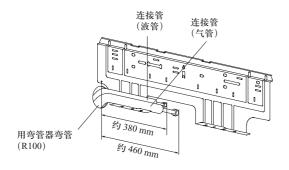
- 请先进行"6. 电气接线",然后进行此管道连接。 用布带包裹室内机组管道的外露部分。
- 将室内机组管道和排水软管穿过墙洞后,请将室内机组悬挂 在挂墙托架顶部的吊上。



[使用 ④ 左后侧管道、⑤ 左侧管道和⑥ 中央管道时]

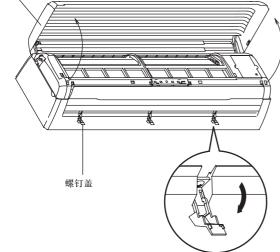
- 重新设置管道末端。
- 如果在 ④ 左后侧和 ⑥ 中央连接管道,请将连接管穿过墙壁
- · 请以最少 100 mm 的弯曲半径将连接管弯曲,并安装在距离 墙壁不超过 50 mm 的地方。

(④ 左后侧管道)

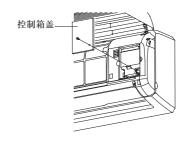


(1) 打开螺钉盖和回风格栅。

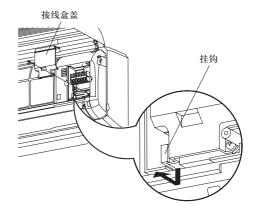




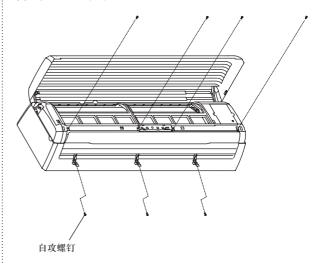
(2) 卸下控制箱盖。



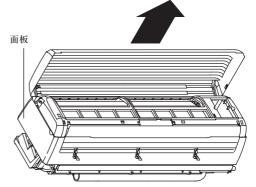
(3) 注意挂钩处,并卸下接线盒盖。



(4) 卸下七枚自攻螺钉。

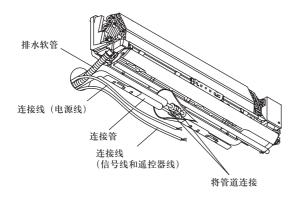


(5) 卸下面板。



- (6) 将室内机组固定在挂墙托架上。
- (7) 将排水软管和管道固定在室内机组上。

(④ 左后侧管道)



 如果想让连接管道的工作进展更顺利,事先进行位置布局, 外形加工和暂时固定连接管和连接线。

6. 电气接线

⚠ 警告

- 必须由持有证书的人员根据国家或地方法规并按照本说明书执行电气作业。务必使用机组专用的电路。电源电路供电不足或不当的电气作业可能会导致如电击或火灾的严重事故。
- 开始工作前,检查室内机和室外机是否没有通电。
- 使用附带的连接线和电源线,或者制造商指定的线缆。连接不当、绝缘不充分或者超出了允许的电流限制可能会导致电击或火灾。
- 对于接线,使用指定类型的电线,将其牢固连接,并确保电线的外力没有施加到接线端子上。电线连接或紧固不当可能会导致如端子过热、电击或火灾的严重事故。
- 请勿改装电源线、使用延长线或者使用接线中的任何支线。 连接不当、绝缘不充分或者超出了允许的电流限制可能会 导致电击或火灾。
- 将接线板号码与室外机上的连接线颜色相匹配。错误的接 线可能会导致电气部件烧毁。
- 将连接线牢靠地连接到端子板。此外,使用接线座紧固电线。如果接线内或端部连接不当,可能会导致故障、电击或火灾。
- 必须用线夹固定连接线的绝缘层。(如果绝缘层未被夹住,可能会发生漏电。)
- 在机组上牢固地安装电气盒盖。电气盒盖安装不当可能会 因暴露于灰尘或水而导致如电击或火灾的严重事故。
- 在用于接线的墙壁开孔中安装套管。否则,可能会导致短路
- 安装接地漏电断路器。此外,安装接地漏电断路器,以便同时切断整个AC主电源。否则,可能会导致电击或火灾。
- 安装接地漏电断路器。
 如果未安装接地漏电断路器,可能会导致电击或火灾。
- 必须连接地线。不当的接地工作可能会导致电击。
- 安装遥控器电线时, 要确保不会用手直接触摸到。

- 按照标准进行接线工作,以便空调器可以安全无故障地运行。
- 将连接电缆牢固地连接在接线板上。不正确的安装可能会导致火灾。

⚠ 注意

- 将机组接地。
- 请勿将地线连接到气体管、水管、避雷针或电话地线。 不适当的接地可能造成电击。
- 请勿将电源线连接到信号线或遥控器接线端,因为这会损坏该产品。
- 绝不要将电源线和信号线束在一起。将这些线束在一起会导致错误运行。
- 操作 PCB 时,机身上的静电可能造成控制 PCB 发生故障。 请遵循下列注意事项:
- 对室内和室外机组以及外围设备使用接地线。
- 切断电源(断路器)。
- 请触摸室内和室外机组金属部分 10 秒以上,以释放机身 静电。
- · 请勿触碰接线 PCB 上的部件端子和布线模式。

6.1. 电气要求

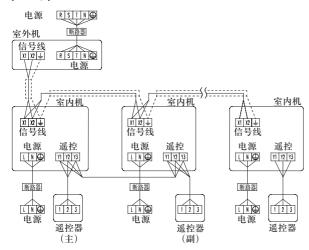
额定电压	230 V	
操作范围	198 - 264 V	

	电缆尺寸推 荐值 (mm²)	电线类型	备注
电源线	2.5	245 IEC57 或相当品	1ø 50 Hz 198 - 264 V 2 电线 + 地线
信号线	0.33	LONWORKS 兼容线	22 AWG LEVEL 4 (NEMA) 非极性双芯双 绞实芯线,直 径 0.65 mm
遥控器线	0.33	聚氯乙烯外 皮电缆*	极性 3 芯 双绞线

*: 根据当地规则,对遥控器使用屏蔽电缆。

6.2. 接线方法

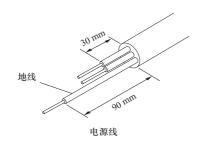
(示例)



6.3. 机组接线

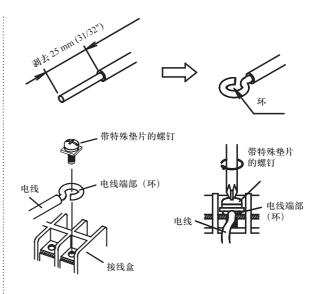
• 将电线连接到接线板之前。

6.3.1. 电源线



A. 对于实芯接线

- (1) 要连接电端子,请将电线在端部结环后根据下图进行连接。
- (2) 用指定的电线连接牢固, 然后拧紧, 保持端子上没有张力。
- (3) 使用适当的螺丝刀拧紧端子螺钉。不要使用过小的螺丝刀, 否则,螺钉头可能会被损坏并且无法将螺钉正确拧紧。
- (4) 不要过分拧紧端子螺钉,否则螺钉可能会断裂。
- (5) 请参见表中的端子螺钉拧紧扭矩。
- (6) 请不要用一颗螺丝固定两根电源线。

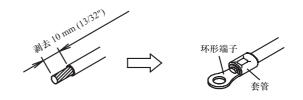


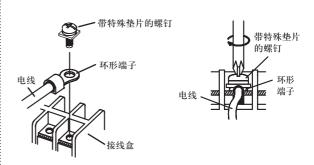
⚠ 警告

使用实芯电线时,请勿使用环形端子。如果使用带有环形端子的实芯电线,环形端子的气压粘结可能会发生故障并导致电线异常发热。

B. 对于绞合线

- (1) 如下图所示,用带绝缘套管的环形端子连接到接线盒。
- (2) 用适当的工具将环形端子压紧到电线,不要让电线松脱。
- (3) 用指定的电线连接牢固, 然后拧紧, 保持端子上没有张力。
- (4) 使用适当的螺丝刀拧紧端子螺钉。不要使用过小的螺丝刀, 否则,螺钉头可能会被损坏并且无法将螺钉正确拧紧。
- (5) 不要过分拧紧端子螺钉,否则螺钉可能会断裂。
- (6) 请参见表中的端子螺钉拧紧扭矩。
- (7) 请不要用一颗螺丝固定两根电源线。



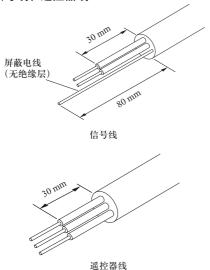


永 警告

使用环形端子并将端子螺钉拧紧到指定的扭矩,否则可能会造成异常过热并可能造成机组内部严重损坏。

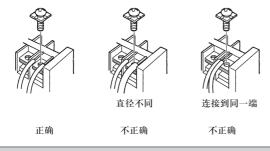
端子号码	拧紧扭矩
- FIN 3 3 1: 3	11200
M4 螺钉	1.2至1.8 N·m
	(1275101
(电源线 / L, N, GND)	(12至18 kgf·cm)

6.3.2. 信号线和遥控器线



- · 如图 B 所示连接遥控和信号线。
- 连接两根电线时。

图 B



▲ 警告

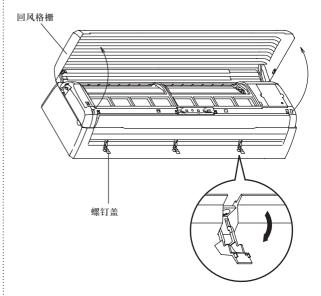
 将端子螺钉拧紧到指定的扭矩,否则可能会造成异常过热 并可能造成机组内部严重损坏。

端子号码	拧紧扭矩
M4 螺钉 (信号线 / X1, X2) (遥控器线 / Y1, Y2, Y3)	0.8 至 1.2 N·m (8至12 kgf·cm)

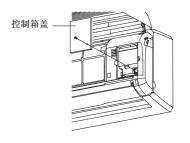
⚠ 注意

- 要剥去引线上的绝缘层,请使用不会损坏导线的专用工具。
- 在接线盒上安装螺钉时,请勿过度拧紧螺钉而折断电线。 同时,过度拧紧的螺钉可能造成错误接触,从而导致通信 故障。

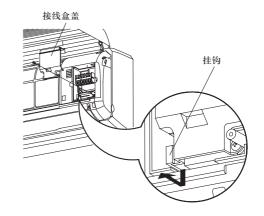
- 从格栅开始时,以下列顺序将其卸下。
- (1) 打开回风格栅。



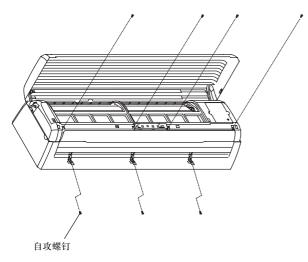
(2) 卸下控制箱盖。



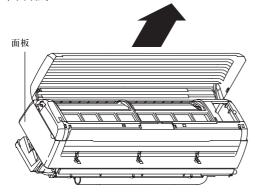
(3) 注意挂钩处, 并卸下接线盒盖。



(4) 卸下七枚自攻螺钉。

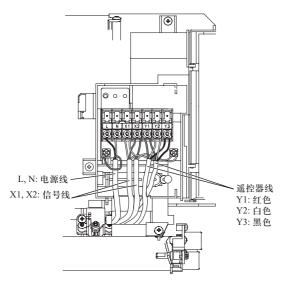


(5) 卸下面板。



6.4. 接线

• 将连接线的末端完全接入接线盒。



7. 现场设置

- 要设置现场设置地址,请参考下列3个项目。以下包括了相应的设置。
- (1) IU AD, REF AD SW 设置......本部分内容
- (2) 遥控器设置有关详细的设置信息,请参阅有线或无线遥控器的说明书。

(将IU AD, REF AD SW设为0)

⚠ 注意

• 在执行现场设置之前,请确保切断电源。

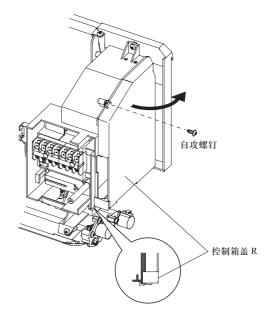
7.1. 设置地址

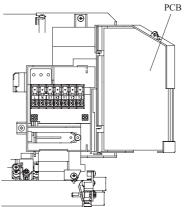
手动地址设置方法

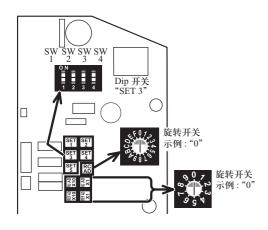
 则也可以通过无线遥控器来设置室内机地址和制冷剂地址 (参见本说明书中的"红外线地址设置")。

⚠ 注意

- · 请使用绝缘螺丝刀来设置 DIP 开关。
- 打开控制箱盖 R。







⚠ 注意

• 切勿错误地设置开关。

(1) 室内机地址

旋转开关 (IU AD × 1)............ 出厂设置"0"旋转开关 (IU AD × 10)............ 出厂设置"0"将多台室内机连接到一个制冷剂系统时,请参见表 A 中 IU AD SW 处的地址。

(2) 制冷剂回路地址

旋转开关 (REF AD × 1)............. 出厂设置 "0" 旋转开关 (REF AD × 10)............. 出厂设置 "0" 在有多个制冷剂系统的情况下,请按表 A 所示为每个制冷剂系统设置 REF AD SW。设置为与室外机相同的制冷剂回路地址。

设置	设置 范围		开关类型	
室内机地址	0–63	设置示例 2	9 0 7 5 4 IU AD × 10	% 0 7 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
制冷剂回路地址	0–99	设置示例 63	907 954 REF AD × 10	9 0 7 % 5 4 REF AD × 1

表A

~					
地址		开关 置	地址		开关 置
制冷剂回路	REF A	D SW	室内机	IU AI × 10	SW ×1
	_	-		-	
0	0	0	0	0	0
1	0	1	1	0	1
2	0	2	2	0	2
3	0	3	3	0	3
4	0	4	4	0	4
5	0	5	5	0	5
6	0	6	6	0	6
7	0	7	7	0	7
8	0	8	8	0	8
9	0	9	9	0	9
10	1	0	10	1	0
11	1	1	11	1	1
12	1	2	12	1	2
÷	:	:	:	:	:
99	9	9	63	6	3

请勿在 64×99 之间设定室内机地址($IU \times AD \times W$)。否则可能会导致故障。

(3) 遥控器地址

旋转开关 (RC AD SW).......出厂设定为"0"将多台室内机连接到一个标准有线遥控器时,请从 0 开始顺次设置 RC AD SW 处的地址。

设置	设置 范围	开关类型		
遥控器地址	0–15	设置示例 0 RC AD		

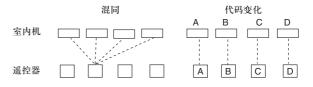
示例 如果安装了4台室内机。



7.2. 用户代码设置

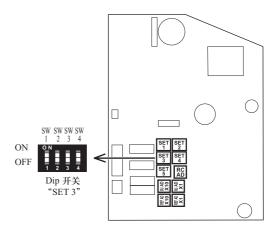
选择用户代码可以防止室内机信号混同。(图 B) (可以设置多达 4 个代码) 为室内机和遥控器执行该设置。

图 B



• 室内机的用户代码设置

参考表 B 设置 DIP SW SET 3 SW1, SW2。



表Β

	用户代码				
	A(出厂设置)	В	С	D	
DIP SW SET 3 SW1	OFF	ON	OFF	ON	
DIP SW SET 3 SW2	OFF	OFF	ON	ON	

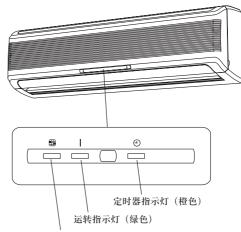
7.3. 功能设置

- 可以使用有线或无线遥控器执行功能设置。 (遥控器为选购设备)
- 有关详细的设置信息,请参阅有线或无线遥控器的说明书。 (将 IU AD, REF AD SW 设为 0)
- 有关室内机地址和制冷剂回路地址设置,请参阅"7.1设置地 址"。
- 开始设置之前,请打开室内机的电源。
 - * 打开电源时,室内机初始化 EEV,所以请确保在打开电源 之前已执行了管道气密性测试和抽真空作业。 * 打开电源前,请再次检查以确保没有接线错误。

功能详情

功能	功能号码	设置号码		默认 设置	说明	
		00	默认设置	0	调整过滤网清洁间隔通知。如果	
过滤网指 示器间隔	11	01	较长		通知时间过早,请更改为设置 01。 如果通知时间过迟,请更改为设置	
		02	较短		02。	
		00	启用	0		
过滤网指 示器操作	13	01	禁用		启用或禁用过滤网指示器。设置 02 适用于中央遥控。	
7 m 2/c 11		02	仅在中央遥 控器上显示			
		00	默认设置	0		
水平摆动 气流方向	24	01	左半区] 调整水平摇摆气流方向。(适用于] 带有水平摇摆功能的机型)	
		02	右半区			
	30	00	默认设置	0	- - 调节冷空气触发温度。要降低触发	
冷空气 温度触发		01	调节(1)		温度,使用设置 01。要提高触发	
		02	调节 (2)		温度,使用反直 02。	
		00	默认设置	0	 调节热空气触发温度。要降低触发	
热空气	31	01	调节(1)		温度 6 摄氏度,使用设置 01。要 -降低触发温度 4 摄氏度,使用设置	
温度触发		02	调节 (2)		02。要提高触发温度,使用设置	
		03	调节(3)		03。	
自动重新	40	00	启用		电源中断后,启用或禁用自动系统	
启动	40	01	禁用	0	重新启动。	
加加松畑	46	00	开始/停止	0	允许外部控制器启动或停止系统, 或者执行紧急关机。	
外部控制		01	紧急停止		*如果从外部控制器执行紧急关机, 将禁用所有制冷剂系统。	
故障报告		00	所有	0	更改报告故障的对象。可以在所有	
对象	47 01	仅在中央遥 控器上显示		位置报告故障,也可以只在有线遥 控器上报告故障。		

7.3.1. 按钮名称和功能



过滤网指示灯 (红色)

7.3.2. 检查功能设置

• 按住室内机上的"MANUAL AUTO (手动•自动)"按钮 3 秒 钟以检查功能设置。 要返回到正常运转模式, 需要切断电源。

(1) 室内机和制冷剂地址指示

指示方式

指示器名称	指示方式		
1日小命石协	室内机地址	制冷剂地址	
运转指示灯 (绿色)	ON (亮)	闪烁 (亮 1.0 秒 / 灭 1.0 秒)	
定时器指示灯(橙色)	地址:10 处	(亮 0.5 秒 / 灭 0.5 秒)	
过滤网指示灯(红色)	地址:1处	(亮 0.5 秒 / 灭 0.5 秒)	

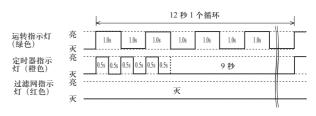
• 室内机地址示例

(示例) 地址:24



• 制冷剂地址示例

(示例) 地址:30



• 设置详情

功能号码	项目	设置号码
01	室内机地址	00~63
02	制冷剂地址	00~99

用于遥控器时,将所有的旋转开关设为 0,有关详细信息,请参阅"7.1 设置地址"。

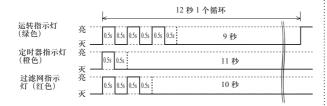
出厂时,所有开关都被设为0。

(2) 其它

指示方式

指示器名称	指示方式		
运转指示灯 (绿色)	功能号码;10处(亮0.5秒/灭0.5秒)		
定时器指示灯(橙色)	功能号码;1处(亮0.5秒/灭0.5秒)		
过滤网指示灯 (红色)	设置号码: (0-9)(亮 0.5 秒 / 灭 0.5 秒)		

(示例) 功能:31, 设置号码:2



8. 最后处理

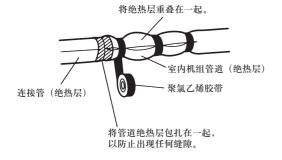
进行这部分作业前,请先进行密封试验。 (请参阅室外机组的安装说明书。)

8.1. 连接管,连接线和排水软管

如有必要,请将排水软管绝热,防止管道凝结。 (1) 管道之间的绝热处理。

- 如果在①后侧、②右侧和③底部连接管道,则请将连接管的绝热层和室内机组管道的绝热层重叠,然后用聚氯乙烯胶带包扎一起,以防止出现任何缝隙。
- 如果在④左后侧、⑤左侧和⑥中央连接管道,请将连接管 绝热层和室内机组管道绝热层的末端部分互相接续,然后用 聚氯乙烯胶带将两者包扎在一起,使它们之间没有间隙。

(① 后侧、② 右侧和 ③ 底部管道)



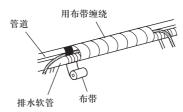
(如在 ④ 左后侧、⑤ 左侧和 ⑥ 中央连接管道)

- 将位于机壳内管道通道部分的管子用布带包裹。
- 请参照下图用聚氯乙烯胶带包扎连接线。
- 用布带将管道和排水软管包扎在一起,使其能够放入后侧机 壳内管道通道部分。

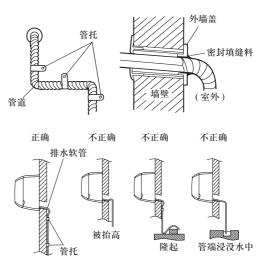




连接线 (信号线和遥控器线)

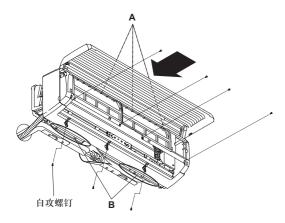


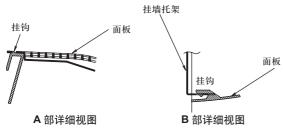
- (2) 用聚氯乙烯胶带暂时将连接线固定在连接管上。
- (3) 用管托等将连接管固定在外墙上。
- (4) 为防止雨水渗入或漏风,请用密封填缝料将外墙管道口和 管道之间的缝隙填满。
- (5) 将排水软管固定在外墙等上。



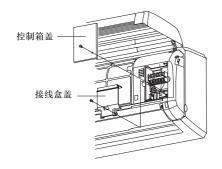
8.2. 安装前盖板

(1) 装回面板在挂钩处使面板嵌入挂墙托架,然后用七枚自攻螺钉固定面板。

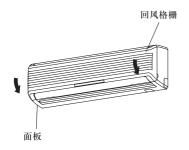




- (2) 用自攻螺钉固定接线盒盖。
- (3) 用自攻螺钉固定控制箱盖。

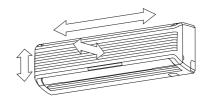


(4) 关上回风格栅。

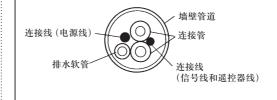


请检查下列事项:

- 顶部和下部挂钩处是否完全嵌合在一起,室内机组是否没有偏向前后左右任何一方。
- 室内机组是否处于水平和垂直位置。
- 如果是从左后侧连接管道的话,排水软管是否处在墙壁管道的左侧下方。

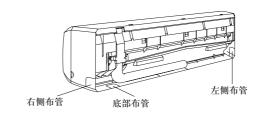


(室内视图)



8.3. 管道出口密封

如下图所示,布管可分为三部分,确保用密封剂,如油灰,将 孔密封。



9. 试运转

9.1. 使用 PCB 进行试运转(室外机)

 如果使用室外机的 PCB 来进行试运转,请参考本安装说明书 了解室外机。

9.2. 使用遥控器进行试运转

- 要使用无线遥控器来进行试运转,请参考遥控器的安装说明书。
- 对空调器进行试运转时,运转和定时器指示灯同时缓慢地闪烁。

10. 检查项目表

安装室内机(组)时,请特别注意以下的检查项目。安装完成后,请确保再次检查以下的检查项目。

检查项目	如果未正确执行	检查框
正确地安装了室内机了吗?	振动,噪音,室内机可能 掉落	
已检查气体泄漏(制冷 剂管道)了吗?	无制冷, 无制热	
已完成绝热工作了吗?	漏水	
室内机组排水容易吗?	漏水	
电源电压与室内机标签 上显示的相同吗?	不运转,发热或烧坏	
电线和管道全都连接正确吗?	不运转,发热或烧坏	
室内机接地了吗?	短路	
连接电缆具有规定的粗 细吗?	不运转,发热或烧坏	
保持进口和出口无阻塞 物了吗?	无制冷, 无制热	
安装完成后,向用户说明 正确的操作和处理了吗?		

11. 故障代码

如果您使用有线型遥控器,则故障代码将显示在遥控器的显示屏上。如果您使用无线遥控器,机组上的指示灯将通过各种闪烁的组合输出故障代码。请参阅下表中的指示灯闪烁组合和故障代码。

	故障显示	有线遥		
运转指示 灯(绿色)	定时器指示 灯 (橙色)	过滤网指示 灯(红色)	控器故障代码	故障内容
•(1)	• (2)	\Diamond	P	遥控器通信故障
•(1)	• (4)	♦	7	网络通信故障
•(1)	• (6)	♦		并行通信故障
• (3)	• (1)	\langle	77	电源频率异常
• (3)	• (2)	\Diamond		型号信息异常 / EEPROM 存取故障
• (4)	• (1)	\langle	41	室温热敏电阻故障
• (4)	• (2)	\langle	42	室内机热交换器 热敏电阻故障
• (5)	• (1)	♦	51	室内机风扇故障
• (5)	• (3)	♦	53	排水异常
• (9)	• (15)	♦	911	室外机故障

有线遥控器显示

