SPLIT TYPE ROOM AIR CONDITIONER INSTALLATION MANUAL

(PART NO. 9315342010-01)

This air conditioner uses new refrigerant HFC (R410A).

The basic installation work procedures are the same as conventional refrigerant (R22) models. However, pay careful attention to the following points:

- (1) Since the working pressure is 1.6 times higher than that of conventional refrigerant (R22) models, some of the piping and installation and service tools are special. (See the table below.) Especially, when replacing a conventional refrigerant (R22) model with a new refrigerant R410A model, always replace the conventional piping and flare nuts with the R410A piping and flare nuts.
- (2) Models that use refrigerant R410A have a different charging port thread diameter to prevent erroneous charging with conventional refrigerant (R22) and for safety. Therefore, check beforehand. [The charging port thread diameter for R410A is 1/2 UNF 20 threads per inch.]
- (3) Be more careful that foreign matter (oil, water, etc.) does not enter the piping than with refrigerant (R22) models. Also, when storing the piping ,securely seal the opening by pinching ,taping, etc.
- (4) When charging the refrigerant, take into account the slight change in the composition of the gas and liquid phases, and always charge from the liquid phase side whose composition is

Special tools for R410A

Tool name	Contents of change	
Gauge manifold	Pressure is 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 the gauge with seals-0.1 to 5.3 MPa (-1 to 53 bar) for high pressure0.1 to 3.8 MPa (-1 to 38 bar) for low pressure.	
Charge hose	To increase pressure resistance, the hose material and base size were changed.	
Vacuum pump	Vacuum pump A conventional vacuum pump can be used by installing a vacuum pump adapter.	
Gas leakage detector	ge detector Special gas leakage detector for HFC refrigerant R410A.	

CONNECTION PIPE REQUIREMENT

ameter diameter

1/4in 6.35mm 0.8mm

5/8in 15.88mm 1.0mm

ominal Outer Thickness Maximum

(between indoor and

outdoor)

length

30m(99ft)

It is necessary to use seamless copper pipes and it is desirable that the amount of residual oil is less than 40 mg/10m. Do not use copper pipes having a collapsed, deformed or discolored portion (especially on the interior surface). Otherwise, the expansion value or capillary tube may become blocked with

As an air conditioner using R410A incurs pressure higher than when using R22, it is necessary to choose adequate materials.

Decide the mounting position with the customer as follows:

(1) Install the indoor unit level on a strong wall which is not subject to

(2) The inlet and outlet ports should not be obstructed: the air should

(3) Install the unit near an electric outlet or special branch circuit.

(5) Install the unit where connection to the outdoor unit is easy.

(6) Install the unit where the drain pipe can be easily installed.

(4) Do not install the unit where it will be exposed to direct sunlight

(7) Take servicing, etc. into consideration and leave the spaces shown

(1) If possible, do not install the unit where it will be exposed to direct

(2) Do not install the unit where a strong wind blows or where it is very

(4) Take your neighbors into consideration so that they are not dis-

Provide the space shown in the figure so that the air flow is not blocked.

Also for efficient operation, leave open three of the four directions

⚠ WARNING

Install at a place that can withstand the weight of the

indoor and outdoor units and install positively so that

turbed by air blowing into their windows or by noise.

sunlight. (If necessary, install a blind that does not interfere with

in the figure. Also install the unit where the filter can be removed.

1. INDOOR UNIT

2. OUTDOOR UNIT

front, rear, and both sides.

be able to blow all over the room.

(3) Do not install the unit where people pass.

Thicknesses of copper pipes used with R410A are as shown in the table. Never use copper pipes thinner than that in the table even when it is available on the market.

↑ WARNING

(1) Do not use the existing (for R22) piping and flare nuts.

- If the existing materials are used, the pressure inside the refrigerant cycle will rise and cause breakage, injury, etc.(Use the special R410A materials.)
- (2) When installing and relocating the air conditioner, do not mix gases other than the specified refrigerant(R410A) to enter the refrigerant cycle.
- · If air or other gas enters the refrigerant cycle, the pressure inside the cycle will rise to an abnormally high value and cause breakage, injury, etc.

When installing pipes shorter than 3m, sound of the outdoor unit will be transferred to the indoor unit, which will cause large operating sound or some abnormal sound.

For authorized service personnel only.

- (1) For the room air conditioner to operate satisfactory, install it as outlined in this installation manual (2) Connect the indoor unit and outdoor unit with the air conditioner piping and cords available standards parts. This installation manual describes the correct connections using the standard accessories and the parts specified in
- (3) Have installation work done by authorized service personnel only
- (4) Do not use an extension cord.

this installation manual.

- (5) Do not turn on the power until all installation work is complete.
- Be careful not to scratch the air conditioner when handling it. After installation, explain correct operation to the customer, using the operating manual.
- Let the customer keep this installation manual because it is used when the air conditioner is serviced or moved.
- The maximum length of the piping is 30 m. The maximum height difference of the piping is 20 m, if the units are further apart than these, correct operation can not be guaranteed.

STANDARD ACCESSORIES

The following installation accessories are supplied.

Name and Shape | Q'ty | Name and Shape | Q'ty Tanning screw (hig)

		Tapping screw (big)	
Remote control unit	1	Damme	
		Tapping screw (small)	
Battery			
	2	Air cleaning filter	
Remote control unit holder			
		Air cleaning filter frame	
	1		

One set of following parts are necessary in istallation of this product.

Name
Connection pipe assembly
Connection cord
Wall pipe
Decorative tape
Vinyl tape
Wall cap
Saddle
Drain hose
Tapping screws
Sealant

ELECTRICAL REQUIREMENT

· Electric wire size and fuse capacity:

MODEL		24,000 BTU class
Power supply cord (mm ²)	MAX.	4.0
rower supply cord (IIIIII)	MIN.	3.5
Connection cord (mm²)	MAX.	2.5
Connection cord (mm²)	MIN.	1.5
Fuse capaclity (A)		30

- least 3 mm nearby the units. (Both indoor unit and out-
- Always make the air conditioner power supply a special branch circuit and provide a special breaker.

Always use H07RN-F or equivalent as the power supply cord and the connection cord.

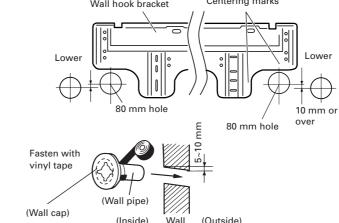
INDOOR UNIT

CUTTING THE HOLE IN THE WALL FOR THE CONNECTING PIPING

(2) When cutting the wall hole at the inside of the wall hook bracket, cut the hole to a point of intersection of center marks. When cutting the wall hole at the outside of the wall hook bracket, cut

(1) Cut a 80 mm diameter hole in the wall at the position shown in the

- the hole at a point of 10mm below. (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 (5) Cut the wall pipe to match the wall thickness, stick it into the wall cap,
- fasten the cap with vinyl tape, and stick the pipe through the hole. (The connection pipe is supplied in the installation set.)
- (6) For left piping and right piping and center piping, cut the hole a little lower so that drain water will flow freely.



↑ CAUTION

Install the wall hook bracket horizontally and

Bind with vinyl tape

For left outlet piping, cut off the

Remove the drain cap by pulling

at the projection at the end of

piping outlet cutting groove

with a hacksaw

Rear piping

drain hose Drain cap the cap with pliers, etc.

↑ CAUTION

Insert the drain hose and drain cap into the drain port, mak-

ing sure that it comes in contact with the back of the drain

port, and then mount it. If the drain hose is not connected

Bottom Indoor unit drain hose

Indoor unit

properly, leaking will occur.

Attach the Insulation (Drain hose) to the drain hos

Wall hook bracket

INSTALLING THE WALL HOOK BRACKET

- (1) Install the wall hook bracket so that it is correctly positioned horizon tally and vertically. If the wall hook bracket is tiled, water will drip to
- (2) Install the wall hook bracket so that it is strong enough to withstand
- Fasten the wall hook bracket to the wall with 6 or more screws through the holes near the outer edge of the bracket.
- Check that there is no rattle at the wall hook bracket.

↑ WARNING

If the wall pipe is not used, the cord interconnecting the indoor and outdoor units may touch metal and cause electric leakage.

-FORMING THE DRAIN HOSE AND PIPE [Rear piping, Right piping, Bottom piping]

- Install the indoor unit piping in the direction of the wall hole and bind
- the drain hose and pipe together with vinvl tape. Install the piping so that the drain hose is at the bottom
- Wrap the pipes of the indoor unit that are visible from the outside with decorative tape.

[For Left rear piping, Left piping] Interchange the drain cap and the drain hose

CAUTION

- (1) In order to align the drain hose and drain cap, be sure to insert securely and vertically. Incline insertion will cause water leakage.
- 2) When inserting, be sure not to attach any material besides water. If any other material is attached, it will cause deterioration and water leakage. After removing drain hose, be sure not to forget
- mounting drain cap. Be sure to fix the drain hose with tape to the bottom of piping.
- (5) Prevent drain water frozen under low tempera ture environment
- When installing indoor unit's drain hose outdoors, necessary measure for frost protection should be taken to prevent drain
- · Under low temperature environment (when outdoor tem perature under 0 °C), after cooling operation is executed,
- water in the drain hose could be frozen. Once drain water is frozen, the drain hose will be blocked and water leakage may be resulted for indoor unit.

(1) Install the outdoor unit wall cap (supplied with the optional installa-

(3) After matching the center of the flare surface and tightening the nut

hand tight, tighten the nut to the specified tightening torque with a

Tighten with two wrenches.

2.2 to 2.4mm

R410A, clutch type Clutch type Wing nut type

0 to 0.5 1.0 to 1.5 1.5 to 2.0

Insert the tab into the square hole of the

B. Strand wire

CAUTION

Fasten a flare nut with a torque wrench as instructed in this manual. If fastened too tight, the flare nut may be broken after a long period of time

2) During installation, make sure that the refrigerant pipe is attached firmly

before you run the compressor. Do not operate the compressor under the

valve open. This may cause abnormal pressure in the refrigeration cycle

(3) Connect the end of the connection cord fully into the terminal block.

condition of refrigerant piping not attached properly with 2-way or 3-way

torque wrench.	Indoor u	nit pipe Connection pipe	To prevent gas leakage, coat the flare surface with refrigerator oil.
FLARING	Flare nut tight	ening torque and L dime	ension
(1) Cut the connection pipe to the necessary length with a pipe cutter. Check if [L] is flared uniformly and is not cracked or scratched.	Flare nut	Tightening torque	L dimension
(2) Hold the pipe downward so that cuttings will	6.35 mm dia.	16 to 18 N•m (160 to 180 kgf•cm)	1.4 to 1.7mm

that leads to breakage and even injury.

(4) Fasten the connection cord with a cord clamp.

15.88 mm dia. 63 to 75 N•m (630 to 750 kgf•c)

Pipe outside diameter

15.88 mm (5/8")

(2) Hold the pipe downward so that cuttings will not enter the pipe and remove the burrs. (3) Insert the flare nut onto the pipe and flare the pipe with a flaring tool. Insert the flare nut (always use the flare nut at-

tached 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 (for R22) flare tool.

When using the conventional flare tool, always use an allowance adjustment gauge and secure the A dimension shown in the table.

BENDING PIPES (1) When bending the pipe, be careful not to crush it.

CONNECTING THE PIPING

tion set or procured at the site) to the wall pipe.

(2) Connect the outdoor unit and indoor unit piping.

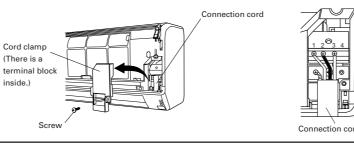
- (2) To prevent breaking of the pipe, avoid sharp bends.
- Bend the pipe with a radius of curvature of 150mm or over.
- (3) If the copper pipe is bend the pipe or pulled to often, it will become stiff. Do not bend the pipes more than three times at one place.

- INDOOR UNIT WIRING (1) Remove the cord clamp.

A. For solid core wiring (or F-cable)

using a screwdriver.

(2) Bend the end of the connection cord as shown in the figure



HOW TO CONNECT WIRING TO THE TERMINALS

(1) Cut the wire end with a wire cutter or wire-cutting pliers, then strip the insulation to about 25 mm (1") to expose the solid wire. (2) Using a screwdriver, remove the terminal screw(s) on the terminal board. (3) Using pliers, bend the solid wire to form a loop suitable for the terminal screw. (4) Shape the loop wire properly, place it on the terminal board and tighten securely with the terminal screw using a screwdriver. B. For strand wiring

(1) Cut the wire end with a wire cutter or wire-cutting pliers, then strip the insulation to about 10 mm (3/8") to expose the strand wiring. (2) Using a screwdriver, remove the terminal screw(s) on the terminal board. (3) Using a round terminal fastener or pliers, securely clamp a round terminal to each stripped wire end.

↑ CAUTION (1) Match the terminal block numbers and connection | (3) Always fasten the outside covering of the conneccord colors with those of the outdoor unit. Erroneous wiring may cause burning of the electric

(4) Position the round terminal wire, and replace and tighten the terminal screw

(2) Connect the connection cords firmly to the terminal (5) Do not use the earth screw for an external connector. block. Imperfect installation may cause a fire.

tion cord with the cord clamp. (If the insulator is chafed, electric leakage may occur.) (4) Securely earth the power cord plug.

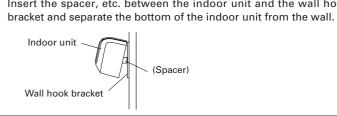
Only use for interconnection between two units.

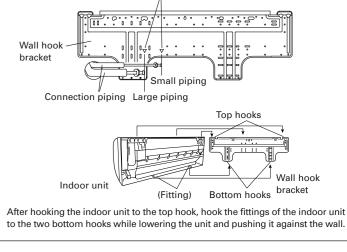
• For left piping and left rear piping, align the marks on the wall hook bracket and shape the connection pipe

- Bend the connection piping at the bend radius of 100 mm or more and install no more than 35 mm from the wall.
- After passing the indoor piping and drain hose through the wall hole,

hang the indoor unit on the hooks at the top and bottom of the wall

[Installing the indoor unit] • Hang the indoor unit from the hooks at the top of the wall hook bracket. • Insert the spacer, etc. between the indoor unit and the wall hook





FRONT PANEL REMOVAL AND INSTALLATION

THE INTAKE GRILLE REMOVAL

(1) Open the intake grille. (2) Pull down the knob.

(2) Lay down the intake grille.

(3) Lift the intake grille upward, until the axle at the top of the intake grille is removed.

THE INTAKE GRILLE INSTALLATION (1) The fixing axle of the intake grille is installed on the Panel.

THE FRONT PANEL REMOVAL

(1) Remove intake grille (Reference the intake grille removal.) (2) Remove six screws. (3) The thumb is hung on the lower part as shown in the figure,

and it pulls to the front, pushing [-] mark , and bottom hooks (two position) is removed from wall hook bracket. The front panel is pulled to the front, raising the upper surface,

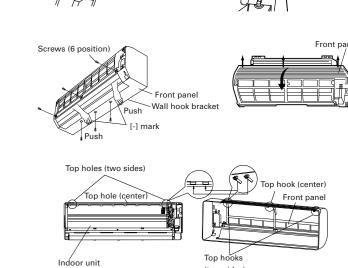
THE FRONT PANEL INSTALLATION

and a front panel is removed.

(3) The intake grille is attached.

hottom hooks. (Three top sides)

(1) Firstly, fit the lower part of the front panel, and insert top and (2) Six screws is attached.



CAUTION

Install the front panel and INTAKE GRILLE securely. If installation is imperfect, the front panel or INTAKE GRILLE may fall off and cause injury

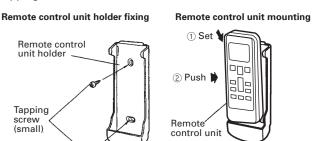
- REMOTE CONTROL UNIT INSTALLATION

A CAUTION (1) Check that the indoor unit correctly receives the signal

- from the remote control unit, then install the remote control unit holder
- (2) Select the remote control unit holder selection site by paying careful attention to the following:
- Avoid places in direct sunlight.
- Select a place that will not be affected by the heat from

REMOTE CONTROL UNIT HOLDER INSTALLATION Install the remote control unit with a distance of 7 m between the re mote control unit and the photocell as the criteria. However, when installing the remote control unit, check that it operates positively.

Install the remote control unit holder to a wall, pillar, etc. with the tapping screw.



laws and regulations and electric company standards.

CUSTOMER GUIDANCE

Explain the following to the customer in accordance with the operating manual: (1) Starting and stopping method, operation switching, temperat-ure adjustment, timer, air flow switching, and other remote control unit operations. (2) Air filter removal and cleaning, and how to use the air louvers. (3) Give the operating and installation manuals to the customer.

PUMP DOWN OPERATION (FORCED COOLING OPERATION)

To avoid discharging refrigerant into the atmosphere at the time of relocation or disposal, recover refrigerant by doing the cooling operation or forced cooling operation according to the following procedure. (When the cooling operation cannot start in winter, and so on, start the forced

(1) Do the air purging of the charge hose by connecting the charging hose of gauge manifold to the charging port of 3 way valve and opening the

low-pressure valve slightly.

cle to supply power to the room air conditioner.

Use a circuit breaker and receptacle matched to the capacity of

(2) Close the valve stem of 2 way valve completely. (3) Start the cooling operation or following forced cooling operation.

When using the remote control unit Press the TEST RUN button after starting the cooling operation by the remote control unit.

The operation indicator lamp and timer indicator lamp will begin to flash simultaneously during test run. When using the MANUAL AUTO button of the indoor unit (The remote control unit is lost, and so on.)

Keep on pressing the MANUAL AUTO button of the indoor unit for more than 10 seconds.

(The forced cooling operation cannot start if the MANUAL AUTO button is not kept on pressing for more than 10 seconds.)

4) Close the valve stem of 3 way valve when the reading on the compound pressure gage becomes 0.05~0 MPa (0.5~0 kg/cm²). (5) Stop the operation • Press the START/STOP button of the remote control unit to stop the operation.

• Press the MANUAL AUTO button when stopping the operation from indoor unit side. (It is not necessary to press on keeping for more than 10 seconds.)

⚠ CAUTION During the pump-down operation, make sure that the compressor is turned off before you remove the refrigerant piping.

Do not remove the connection pipe while the compressor is in operation with 2 way or 3 way valve open. This may cause abnormal pressure in the refrigeration cycle that leads to breakage and even injury.

the air conditioner.

POWER

The rated voltage of this product is 230 V AC 50 Hz. (5) Do not extend the power cord. Before turning on the power, check if the voltage is within the (6) Perform wiring work in accordance with standards so that the 220 V -10 % to 240 V +10 % range. air conditioner can be operated safely and positively. (3) Always use a special branch circuit and install a special recepta-Install a leakage circuit breaker in accordance with the related

CAUTION

The power source capacity must be the sum of the air conditioner current and the current of other electrical appliances. When the current contracted capacity is insufficient, change the contracted capacity.

When the voltage is low and the air conditioner is difficult to start, contact the power company the voltage raised.

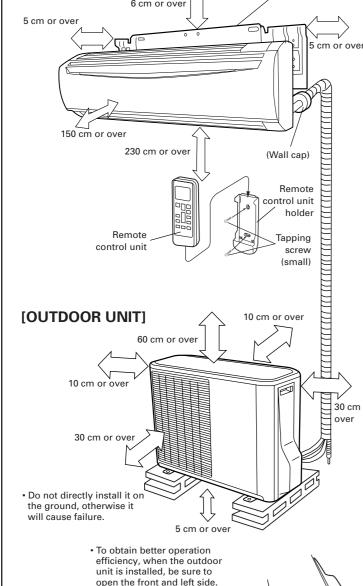
Install heat insulation around both the gas and liquid pipes. Failure to do so may cause water leaks. Use heat insulation with heat resistance above 120 °C. (Reverse cycle model only) In addition, if the humidity level at the installation location of the refrigerant piping is expected to exceed 70%, 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.

In addition, use heat insulation with heat conductivity of 0.045 W/(m·K) or less (at 20 °C).

f heat insulation is used that is not as thick as specified, condensation may form on the surface of the insulation.

Installation instruction on the back.

the units will not topple or fall. **⚠** CAUTION (1) Do not install where there is the danger of com bustible gas leakage. (2) Do not install near heat sources. (3) If children under 10 years old may approach the unit, take preventive measures so that they cannot reach the unit. Install the indoor unit on the wall where the height from the floors more than 230 cm. [Indoor unit piping direction] The piping can be connected in the 7 directions in the figure. When the piping is connected in direction ②, ③, ④ or ⑤, cut along the piping groove in the side of the front panel with a hacksaw.



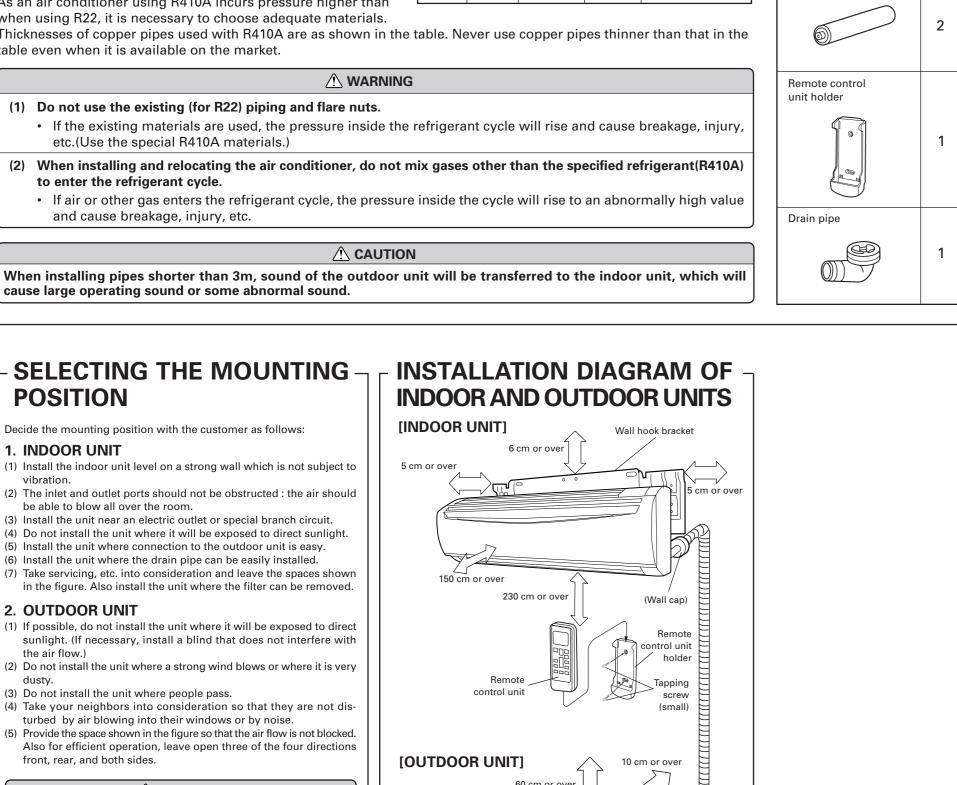
∴ CAUTION

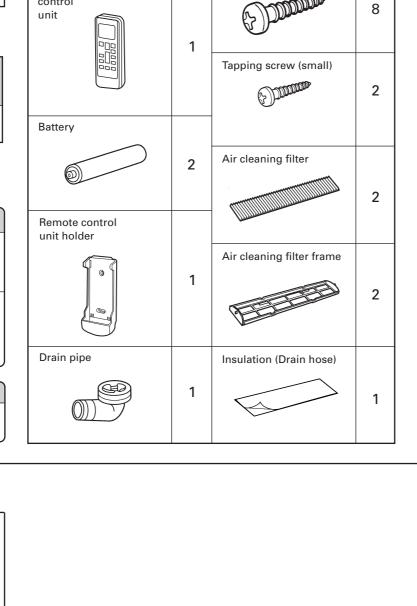
1) When the outdoor temperature is 0 °C or less, do not use the accessor

2) In the area with heavy snowfall, if the intake and outlet of outdoor uni

is blocked with snow, it might become difficult to get warm and it is likely to cause of the breakdown. Please construct a canopy and a pedestal or place the unit on a high stand (local configured).

drain pipe and drain cap. If the drain pipe and drain cap are used, the drain water in the pipe may freeze in extremety cold weather.(Reverse





OUTDOOR UNIT

OUTDOOR UNIT INSTALLATION

- Set the unit on a strong stand, such as one made of concrete blocks to minimize shock and vibration.
- Do not set the unit directly on the ground because it will cause trou-

Connector cover removal

Remove the tapping screws. Installing the connector cover

(1) After inserting the two front hooks, then insert the rear hook. (2) Tighten the tapping screws.

↑ WARNING

(1) Install the unit where it will not be tilted by more than 5°.

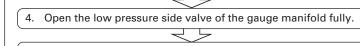
(2) When installing the outdoor unit where it may exposed to strong wind, fasten it securely.

- AIR PURGE

Always use a vacuum pump to purge the air. Refrigerant for purging the air is not charged in the outdoor unit at the factory.

Close the high pressure side valve of the gauge manifold fully and do not operate it during the following work.

(1.	Check if the piping connections are secure.
2.	Check that the stems of 2-way valve and 3-way valve are closed fully.
3.	Connect the gauge manifold charge hose to the charging port of the 3-way valve (side with the projection for pushing in the



5. Operate the vacuum pump and start pump down. 6. Slowly loosen the flare nut of the 3-way valve and check if air enters, then retighten the flare nut. (When the flare nut is loosened the operating sound of the

pressure gauge goes from minus to zero.)		
7. Pump down the system for at least 15 minutes, then check if the compound pressure gauge reads -0.1 MPa (-76 cmHg, -1 bar).		

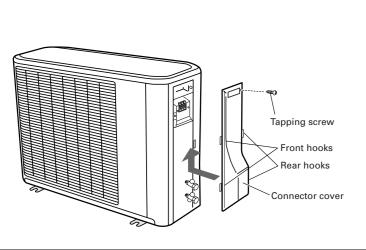
vacuum pump changes and the reading of the compound

9. Slowly loosen the valve stem of the 3-way valve. When the compound pressure gauge reading reaches 0.1-0.2 MPa, retighten the valve stem and disconnect the charge hose from the 3-way valve charging port. (If the stem of the 3-way valve is opened fully before the charge hose is disconnected, it may be difficult to disconnect the charge hose.)

Additional charge Refrigerant suitable for a piping length of 15 m is charged in the outdoor

unit at the factory. When the piping is longer than 15 m, additional charging is necessary. For the additional amount, see the table below.

20 m 25 m 30 m Additional refrigerant 100 g 200 g 300 g



∴ CAUTION (1) Refrigerant must not be discharged into

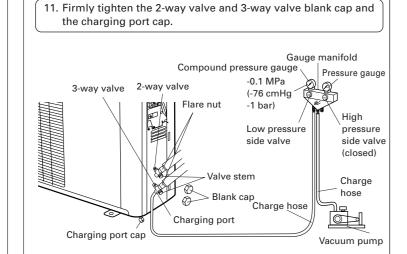
stops turning.)

atmosphere. (2) After connecting the piping , check the joints for

gas leakage with gas leak detector.

10. Fully open the valve stems of the 2-way valve and 3-way valve using a hexagon wrench. (After the valve stem begins to turn,

turn it with a torque of less than 2.9 N·m (30 kgf·cm) until it



		rightening torque		
	Blank cap (2-way valve)	20 to 25 N•m (200 to 250 kgf•cm)		
	Blank cap (3-way valve)	30 to 35 N•m (300 to 350 kgf•cm)		
	Charging port cap	10 to 12 N•m (100 to 120 kgf•cm)		

⚠ CAUTION

When adding refrigerant, add the refrigerant from the charging port at the completion of work.

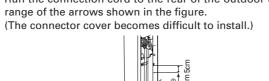
The maximum length of the piping is 30 m. If the units are further apart than this, correct operation can not be guaranteed.

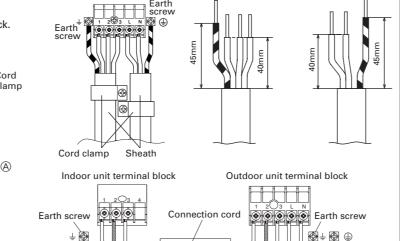
Between 15 m and 30 m, when using a connection pipe other than that in the table, charge additional refrigerant with 20g/1 m as the

(2) Bend the end of the cord as shown in the figure. (3) Connect the end of the connection cord fully into the terminal block. (4) Fasten the sheath with a cord clamp. (5) Install the connector cover.

OUTDOOR UNIT WIRING (1) Remove the outdoor unit connector cover.

Connection cord wiring Run the connection cord to the rear of the outdoor unit within the $\ensuremath{\boldsymbol{\triangle}}$





⚠ CAUTION

cord colors with those of the indoor unit. Erroneous wiring may cause burning of the electric parts.

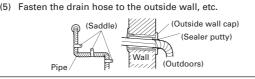
block. Imperfect installation may cause a fire.

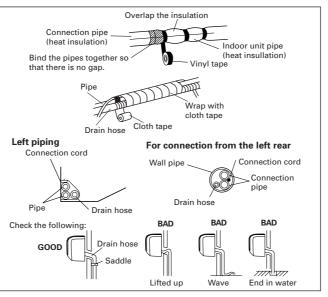
(1) Match the terminal block numbers and connection (3) Always fasten the outside covering of the connection cord with the cord clamp. (If the insulator is chafed, electric leakage may occur.) (4) Securely earth the power cord plug. (2) Connect the connection cords firmly to the terminal (5) Do not use the earth screw for an external connector.

Only use for interconnection between two units.

- FINISHING -1) Insulate between pipes.
- For rear, right, and 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 left and left rear piping and center piping, butt the connection pipe heat insulation
- For left and left rear piping and center piping, wrap the area which accommodates the rear piping housing section with cloth tape.
 For left and left rear piping and center piping, bind the connection cord to the top of the
- For left and left rear piping and center piping, bundle the piping and drain hose to-gether by wrapping them with cloth tape over the range within which they fit into the rear piping housing section. 2) Temporarily fasten the connection cord along the connection pipe with vinyl tape. (Wrap to about 1/3 the width of the tape from the bottom of the pipe so that water does not enter.)
-) Fasten the connection pipe to the outside wall with saddles, 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.





TEST RUNNING

- Perform test operation and check items 1 and 2 below.
- For the test operation method, refer to the operating manual.
- The outdoor unit, may not operate, depending on the room temperature. In this case, press the test run button on the remote control unit while the air conditioner is running, (Point the transmitter section of the remote control unit toward the air conditioner and press the test run button
- To end test operation, press the remote control unit START/STOP button. (When the air conditioner is run by pressing the test run button, the OPERATION indicator lamp and TIMER indicator lamp will simultaneously
- flash slowly.)

1. INDOOR UNIT

- (1) Is operation of each button on the remote control unit normal? (2) Does each lamp light normally?
- (3) Do the air flow-direction louver operate normally?
- (4) Is the drain normal? 2. OUTDOOR UNIT
- (1) Is there any abnormal noise and vibration during operation? (2) Will noise, wind, or drain water from the unit disturb the neighbors?
- (3) Is there any gas leakage?

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