Before using your air conditioner, please read this manual carefully and keep it for future reference.

# SPLIT-TYPE ROOM AIR CONDITIONER

# INSTALLATION MANUAL

# COAIRE

- Please read this installation manual completely before installing the product.
- If the power cord is damaged, replacement work shall be performed by authorised personnel only.
- Installation work must be performed in accordance with the national wiring Standards by authorised personnel only.
- Contact an authorised service technician for repair, maintenance or installation of this unit.

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#### Read This Manual

Inside you will find many helpful hints on how to install and test the air conditioner properly. All the illustrations are for explanation purposes only, the actual shape of the air conditioner you purchased may be slightly different, the actual shape shall prevail.

## **↑** CAUTION

- Contact an authorised service technician for repair or maintenance of this unit.
- Contact an authorised installer for installation of this unit.
- The air conditioner is not intended for use by young children or infirmed persons without supervision.
- Young children should be supervised to ensure that they do not play with the air conditioner.
- If the power cord is to be replaced, replacement work shall be performed by authorised personnel only.
- Installation work must be performed in accordance with the national wiring Standards by authorised personnel only.

• Read the follow SAFETY PRECAUTIONS carefully before installation.

• Electrical work must be installed by a licensed electrician. Be sure to use the correct rating and main circuit for the model to be installed.

Incorrect installation due to ignoring of the instruction will cause harm or damage, and the seriousness is classified by the following indications.

| / WARNING        | This symbol indicates the possibility of death or serious injury.      |  |
|------------------|--|--|
| <b>A</b> CAUTION | This symbol indicates the possibility of injury or damage to property. |  |

#### The items to be followed are classified by the symbols:



Symbol will background white denotes item that is PROHIBITED from doing.

#### **MARNING**

- 1) Engage dealer or specialist for installation. If installation done by the user is defective, it will cause water leakage, electrical shock fire.
- Install according to this installation instructions strictly. If installation is defective, it will cause water leakage, electrical shock fire.
- 3) Use the attached accessories parts and specified parts for installation, otherwise, it will cause the set to fall, water leakage, electrical shock fire.
- 4) Install at a strong and firm location which is able to withstand the set's weight. If the strength is not enough or installation is not properly done, the set will drop and cause injury.
- 5) For electrical work, follow the local national wiring standard, regulation and this installation instructions. An independent circuit and single outlet must be used. If electrical circuit capacity is not enough or defect found in electrical work, it will cause electrical shock fire.
- 6) Use the specified cable and connect tightly and clamp the cable so that no external force will be acted on the terminal. If connection or fixing is not perfect, it will cause heat-up or fire at the connection.
- 7) Wiring routing must be properly arranged so that control board cover is fixed properly. If control board cover is not fixed perfectly, it will cause heat-up at connection point of terminal, fire or electrical shock.
- 8) When carrying out piping connection, take care not to let air substances other than the specified refrigerant go into refrigeration cycle. Otherwise, it will cause lower capacity, abnormal high pressure in the refrigeration cycle, explosion and injury.



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



#### **↑** CAUTION

- 1) This equipment must be earthed and installed with earth leakage current breaker. It may cause electrical shock if grounding is not perfect.
- 2) Do not install the unit at place where leakage of flammable gas may occur. In case gas leaks and accumulates at surrounding of the unit, it may cause fire.



3) Carry out drainage piping as mentioned in installation instructions. If drainage is not perfect, water may enter the room and damage the furniture.

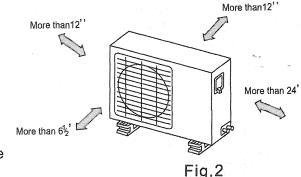
#### Selecting installation place

## Read completely, then follow step by step. Indoor unit

- Do not expose the indoor unit to heat or steam.
- Select a place where there are no obstacles in front or around the unit.
- Make sure that condensation drainage can be conveniently routed away.
- Do not install near a doorway.
- Ensure that the space on the left and right of the unit is more than 4%.
- Use a stud finder to locate studs to prevent unnecessary damage to the wall.
- The indoor unit should be installed on the wall at a height of  $6\frac{1}{2}$  feet or more from the floor.
- The indoor unit should be installed allowing a minimum clearance of 6"from the ceiling.
- Any variations in pipe length will/may require adjustment to refrigerant charge.
- There should not be any direct sunlight. Otherwise, the sun will fade the plastic cabinet and affect its appearance. If unavoidable, sunlight prevention should be taken into consideration.

#### Outdoor unit

- If an awning is built over the outdoor unit to prevent direct sunlight or rain exposure, make sure that heat radiation from the condenser is not restricted.
- Ensure that the clearance around the back of the unit is more than 12" and left side is more than 12". The front of the unit should have more than 6½ of clearance and the connection side (right side) should have more than 60cm of clearance.



- Do not place animals and plants in the path of the air inlet or outlet.
- Take the air conditioner weight into account and select a place where noise and vibration will not be an issue.
- Select a place so that the warm air and noise from the air conditioner do not disturb neighbors.

#### Rooftop installation:

- If the outdoor unit is installed on a roof structure, be sure to level the unit.
- Ensure the roof structure and anchoring method are adequate for the unit location.
- Consult local codes regarding rooftop mounting.
- If the outdoor unit is installed on roof structures or external walls, this may result in excessive noise and vibration, and may also be classed as a non serviceable installation.

#### Tools needed for installation:

Level gauge Screwdriver Electric drill, Hole core drill (Φ2½') Flaring tool set Specified torque wrenches: 1.8kgf.m, 4.2kgf.m, 5.5kgf.m, 6.6kgf.m (different depending on model No.) Spanner (half union) Hexagonal wrench (4mm)
Gas-leak detector
Vacuum pump
Gauge manifold
Users manual
Thermometer
Multimeter
Pipe cutter
Measuring tape

#### Accessories

| Number        | Name of Accessories                  |                |                                 | Q' ty                                    |  |
|---------------|--------------------------------------|----------------|---------------------------------|--|--|
| 1             | Installation Plate                   |                |                                 | 1  |  |
| 2             | Plastic Expa                         | nsion Sheat    | h                               | 8  |  |
| 3             | Self-tapping S                       | crew AST3.     | 9X25                            | 8  |  |
| 4             | Seal (See Pa                         | ige 8 for deta | ails)                           | 1  |  |
| 5             | Drain Joint (See page 8 for details) |                |                                 | 1  |  |
|               | Connecting                           | Liquid side    | Ф <sup>1</sup> / <sub>4</sub> , | Parts you must purchase                  |  |
| 6             | 6 pipe                               |                | 4 3/3 (<12000Btu/h model)       | (The minimum pipe                        |  |
|               | Assembly                             | Gas side       | ф 1/3 9 (≥12000Btu/h model)     | wall-thickness<br>of 0.7mm is required.) |  |
| . <b>7</b> 93 | Remote controller                    |                |                                 | 1  |  |
| 8             | Self-tapping Screw B ST2.9X10        |                |                                 | 2  |  |
| 9             | Remote controller holder             |                |                                 | 1  |  |

**Note:** Except the above parts provided, the other parts needed during installation you must purchase.

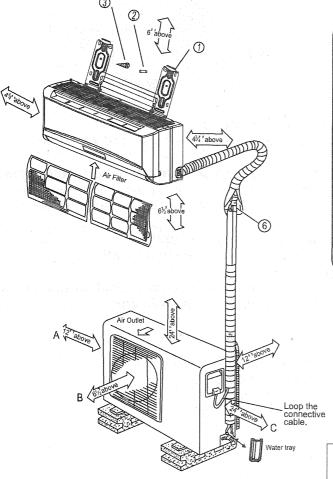


Fig.3

#### CAUTION -

- Ensure that the space around the left and right of the indoor unit is more than  $4\frac{1}{4}$ .' The indoor unit should be installed allowing a minimum clearance of 6' from the ceiling.
- Use a stud finder to locate studs to prevent unnecessary damage to the wall.
- A minimum pipe run of 10 feet is required to minimise vibration & excessive noise.
- The indoor unit should be installed on the wall at a height of 6½ feet or more from the floor.
- Two of the A, B and C directions should be free from obstructions.

Remote Controller



Self-tapping screw B ST2.9x10-C-H



Remote controller

- This illustration is for explanation purposes only.
- Copper lines must be insulated independently.

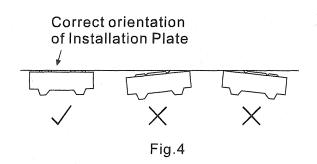
#### Indoor unit installation

#### 1. Fit the Installation Plate

1. Fit the installation plate horizontally on structural parts of the wall with spaces around the installation plate.

2. If the wall is made of brick, concrete or the like, drill eight (8) 5mm diameter holes in the wall. Insert Clip anchor for appropriate mounting screws.

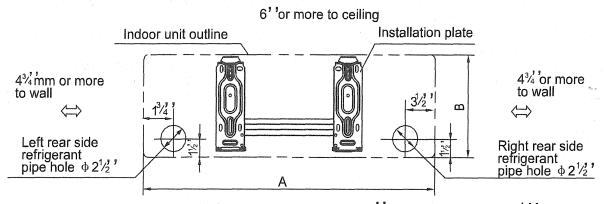
3. Fit the installation plate on the wall with eight (8) type "A" screws.



#### Note:

Fit the Installation Plate and drill holes in the wall according to the wall structure and corresponding mounting points on the installation plate.

(Dimensions are in "inch" unless otherwise stated)



A:(<12000Btu/h model:31'';  $\geq$ 12000Btu/h:36 $\frac{1}{4}$ ') B:(<12000Btu/h model:10 $\frac{1}{4}$ 6;  $\geq$ 12000Btu/h:11 $\frac{1}{2}$ ')

Fig.5

#### 2. Drill a hole in the wall

- 1. Determine hole positions according to the diagram detailed in Fig.5. Drill one (1) hole ( $\Phi$  2½ ) slanting slightly to outdoor side.
- 2. Always use wall hole conduit when drilling metal grid, metal plate or the like.

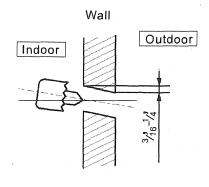


Fig.6

#### 3. Connective Pipe and Drainage Installation Drainage

1. Run the drain hose sloping downward. Do not install the drain hose as illustrated below.

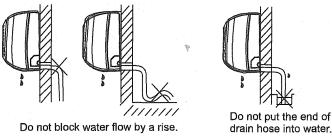


Fig.7

2. When connecting extension drain hose, insulate the connecting part of extension drain hose with a shield pipe, do not let the drain hose slack.

#### **Connective pipe**

- 1. For the left-hand and right-hand piping, remove the pipe cover from the side panel.
- Explain to clients that the pipe cover must be kept as it may be used when relocating the air conditioner to any other place.
- 2. For the rear-right-hand and rear-left-hand piping, install the piping as shown. Bend the connective pipe to be laid at 13/4 height or less from the wall.
- 3. Fix the end of the connective pipe. (Refer to Tightening Connection in REFRIGERANT PIPING CONNECTION)

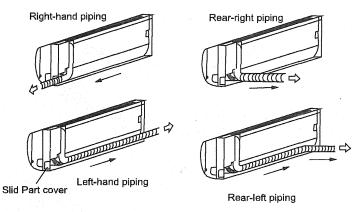


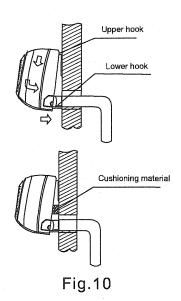
Fig.8

# Indoor unit outline Connective pipe

Fig.9

#### 4. Indoor unit installation

- 1. Pass the piping through the hole in the wall.
- Put the upper claw at the back of the indoor unit on the upper hook of the installation plate, move the indoor unit from side to see that it is securely hooked.
- 3. Piping can easily be made by lifting the indoor unit with a cushioning material between the indoor unit and the wall. Get it out after finish piping.
- 4. Push the lower part of the indoor unit up on the wall, Then move the indoor unit from side to side, up and down to check if it is hooked securely.



6

#### 5. Piping and wrapping

Bundle the tubing, connecting cable, and drain hose with tape securely, evenly as shown in Fig.10.

 Because the condensed water from rear of the indoor unit is gathered in ponding box and is piped out of room. Do not put anything else in the box.

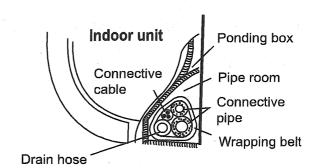


Fig.10

#### CAUTION

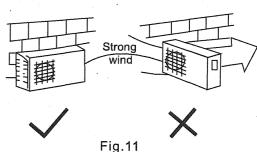
- Connect the indoor unit first, then the outdoor unit.
- Do not allow the piping to let out from the back of the indoor unit.
- Be careful not to let the drain hose slack.
- Heat insulated both of the auxiliary piping.
- Be sure that the drain hose is located at the lowest side of the bundle. Locating at the upper side can cause drain pan to overflow inside the unit.
- Never intercross nor intertwist the power wire with any other wiring.
- Run the drain hose sloped downward to drain out the condensed water smoothly.

#### **Outdoor unit installation**

#### **Outdoor installation precaution**

- Install the outdoor unit on a rigid base to prevent increasing noise level and vibration.
- Determine the air outlet direction where the discharged air is not blocked.
- In the case that the installation place is exposed to strong wind such as a seaside, make sure the fan operating properly by putting the unit lengthwise along the wall or using a dust or shield plates.
- Specially in windy area, install the unit to prevent the admission of wind.
- If need suspending installation, the installation bracket should accord with technique requirement in the installation bracket diagram. The installation wall should be solid brick, concrete or the same intensity construction, or actions to reinforce, damping supporting should be taken. The connection between bracket and wall, bracket and the air conditioner should be
- Be sure there is no obstacle which block radiating air.

firm, stable and reliable.



### REFRIGERANT PIPE CONNECTION

#### **Settlement of outdoor unit**

 Anchor the outdoor unit with a bolt and nut Φ 10 or Φ 8 tightly and horizontally on a concrete or rigid mount.

|   |                                  | <b>%</b>                         |
|---|----------------------------------|----------------------------------|
| Outdoor unit dimension  | Mounting dimensions              |                                  |
| inch(WxHxD)   | A(inch)                          | B(inch)                          |
| 27 <sup>1</sup> / <sub>2</sub> 'x21' 'x9 <sup>1</sup> / <sub>4</sub> '                              | 18 <sup>1</sup> /32              | 97/8,                            |
| 27' x16 <sup>15</sup> /6'x10 <sup>1</sup> /4'   | 181/10                           | 10 <sup>7</sup> / <sub>8</sub> , |
| 30/32 x21/4 x 9/8   | 21' '                            | 10 <sup>7</sup> / <sub>8</sub> , |
| 2913/6x237/32x117/32  | 20 <sup>7</sup> / <sub>8</sub> , | 11 <sup>3</sup> / <sub>8</sub> ' |
| 33 <sup>1</sup> / <sub>4</sub> 'x27 <sup>3</sup> / <sub>8</sub> 'x13 <sup>3</sup> / <sub>16</sub> ' | 22"                              | 13 <sup>3</sup> / <sub>16</sub>  |

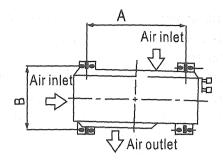


Fig.12

#### **Drain joint installation**

Fit the seal into the drain elbow, then insert the drain joint into the base pan hole of outdoor unit, rotate 90° to securely assemble them. Connecting the drain joint with an extension drain hose (Locally purchased), in case of the water draining off the outdoor unit during the heating mode.

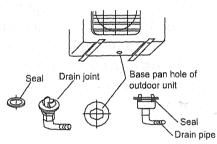


Fig.13

#### Refrigerant pipe connection

#### 1. Flaring work

Main cause for refrigerant leakage is due to defect in the flaring work. Carry out correct flaring work using the following procedure:



1. Use the piping kit accessory or pipes purchased locally.



- 3. Cut the pipes a little longer than the measured distance.
- 4. Cut the cable 5 feet longer than the pipe length.

#### B: Burr removal

- 1. Completely remove all burrs from the cut cross section of pipe/tube.
- 2. Put the end of the copper tube/pipe in a downward direction as you remove burrs in order to avoid dropping burrs into the tubing.

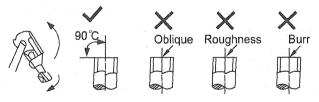


Fig.14

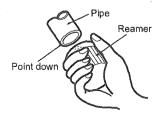
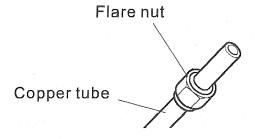


Fig.15

#### C: Putting nut on

Remove flare nuts attached to indoor and outdoor unit, then put them on pipe/tube having completed burr removal.(not possible to put them on after flaring work)



#### D: Flaring work

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

| Outer diam. | A(inch)       |                   |
|-------------|---------------|-------------------|
| (Inch)      | Max.          | Min.              |
| 1/3 3       | 1/3 3         | 1/33              |
| 3/8 '       | 1,7,7<br>/16. | 1, <b>1</b> ,1,32 |
| 1/2"        | و ور1<br>16   | ز زر1<br>32       |

Fig.16

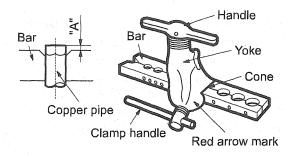


Fig.17

#### **Tightening Connection**

- Align the center of the pipes..
- Sufficiently tighten the flare nut with fingers, and then tighten it with a spanner and torque wrench as shown.

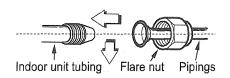


Fig.18

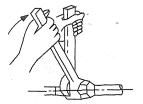


Fig.19

#### Caution

 Excessive torque can break nut depending on installation conditions.

|             | Outer<br>diam.                                    | Tightening torque(N.cm) | Additional tightening torque(N.cm) |
|-------------|---|-------------------------|------------------------------------|
| 1/3 , 1570  |   | 1570                    | 1960                               |
| (160kgf.cm) |   | (160kgf.cm)             | (200kgf.cm)                        |
|             | <sup>3</sup> / <sub>8</sub> , 2940<br>(300kgf.cm) |                         | 3430<br>(350kgf.cm)                |
| 4900        |   | 4900                    | 5390                               |
| (500kgf.cm) |   | (500kgf.cm)             | (550kgf.cm)                        |

#### Electrical work

Electric safety regulations for the initial Installation

- 1. If there is serious safety problem about the power supply, the technicians should refuse to install the air conditioner and explain to the client until the problem is solved.
- 2. Power voltage should be in the range of 90%~110% of rated voltage.
- 3. The sorge protector and main power switch with a 1.5 times capacity of Max. Current of the unit should be installed in power circuit.
- 4. Ensure the air conditioner is grounded well.
- 5. According to the attached Electrical Connection Diagram located on the panel of the outdoor unit to connect the wire.
- 6. All wiring must comply with local and national electrical codes and be installed by qualified and skilled electricians.
- 7. An individual branch circuit and single receptacle used only for this air conditioner must be available. See the following table for suggested wire sizes and fuse specifications:

**NOTE**: The supply voltage must be consistent with the rate voltage of the air conditioner.

| Model       | Power supply | Plug socket and<br>Fuse rating |
|-------------|--------------|--------------------------------|
| <12000Btu/h | 60Hz 115V~   | 32/25A                         |
| ≥12000Btu/h | <u> </u>     | 32/25A                         |

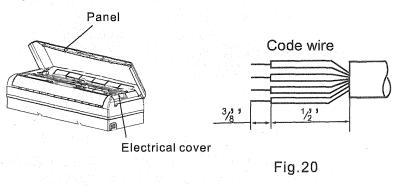
#### Suggest Minimum Wire Size (AWG: American Wire Gage):

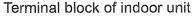
| Appliance Amps | AWG Wire Size |  |
|----------------|---------------|--|
| 10             | #118 #        |  |
| 13             | 16            |  |
| 18             | 14            |  |
| 25             | 12            |  |
| 30             | 10            |  |

#### Connect the cable to the indoor unit

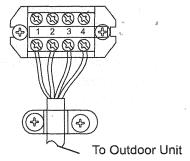
#### NOTE: Before performing any electrical work, turn off the main power to the system.

- 1. The inside and outside connecting cable can be connected without removing the front grille.
- 2. Connecting cable between indoor unit and outdoor unit shall be approved polychloroprene sheathed flexible cord, type designation H07RN-F or heavier cord.
- 3. Lift the indoor unit panel up, remove the electrical box cover by loosening the screw.
- 4. Ensure the colour of wires of outdoor unit and the terminal Nos. are the same to the indoor s respectively.
- 5. Wrap those cables not connected with terminals with insulation tapes, so that they will not touch any electrical components. Secure the cable onto the control board with the cord clamp.



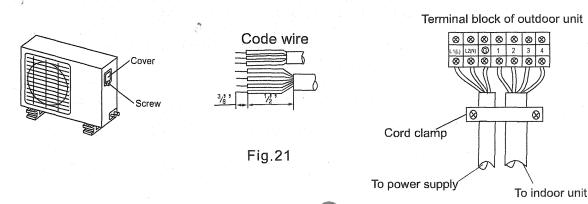


8



#### Connect the cable to the outdoor unit

- 1. Remove the electrical control board cover from the outdoor unit by loosening the screw.
- 2. Connect the connective cables to the terminals as identified with their respective matched numbers on the terminal block of indoor and outdoor units.
- 3. Secure the cable onto the control board with the cord clamp.
- 4. To prevent the ingress of water, form a loop of the connective cable as illustrated in the installation diagram of indoor and outdoor units.
- 5. Insulate unused cords (conductors) with PVC-tape. Process them so they do not touch any electrical or metal parts.



#### CAUTION

After the confirmation of the above conditions, prepare the wiring as follows:

- 1) Never fail to have an individual power circuit specifically for the air conditioner. As for the method of wiring, be guided by the circuit diagram posted on the inside of control cover.
- 2) The screw which fasten the wiring in the casing of electrical fittings are liable to come loose from vibrations to which the unit is subjected during the course of transportation. Check them and make sure that they are all tightly fastened. (If they are loose, it could cause burn-out of the wires.)
- 3) Specification of power source.
- 4) Confirm that electrical capacity is sufficient.
- 5) See to that the starting voltage is maintained at more than 90 percent of the rated voltage marked on the name plate.
- 6) Confirm that the cable thickness is as specified in the power source specification.
- 7) Always install an earth leakage circuit breaker in a wet or moist area.
- 8) The following would be caused by voltage drop.
  - Vibration of a magnetic switch, which will damage the contact point, fuse breaking, disturbance of the normal function of the overload.
- 9) The means for disconnection from a power supply shall be incorporated in the fixed wiring and have an air gap contact separation of at least 9<sup>7</sup>/<sub>6</sub> in each active(phase) conductors.

#### Air purging

Air and moisture in the refrigerant system have undesirable effects as indicated below:

- Pressure in the system rises.
- Operating current rises.
- Cooling or heating efficiency drops.
- Moisture in the refrigerant circuit may freeze and block capillary tubing.
- Water may lead to corrosion of parts in the refrigeration system.

Therefore, the indoor unit and tubing between the indoor and outdoor unit must be leak tested and evacuated to remove any noncondensables and moisture from the system.

#### Air purging with vacuum pump

Preparation

Check that each tube(both liquid and gas side tubes) between the indoor and outdoor units have been properly connected and all wiring for the test run has been completed. Remove the service valve caps from both the gas and the liquid side on the outdoor unit. Note that both the liquid and the gas side service valves on the outdoor unit are kept closed at this stage.

Pipe length and refrigerant amount:

| Connective pipe length | Air purging method | Additional amount of refrigerant to be charged     |
|------------------------|--------------------|--|
| Less than 16'          | Use vacuum pump.   | AMERICAN CANADA AND AND AND AND AND AND AND AND AN |
| 16'~32'                | Use vacuum pump.   | Liquid side: ½, , (Pipe length-5)x30g              |

- When relocating the unit to another place, perform evacuation using vacuum pump.
- Make sure the refrigerant added into the air conditioner is liquid form in any case.
   (Not applicable to the units with R22 )

#### Caution in handling the packed valve

- Open the valve stem until it hits against the stopper. Do not try to open it further.
- Securely tighten the valve stem cap with aspanner or the like.
- Valve stem cap tightening torque (See Tightening torque table in previous page ).

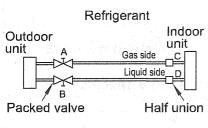


Fig.22

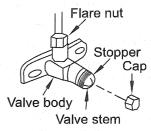


Fig.23

#### When Using the Vacuum Pump

(For method of using a manifold valve, refer to its operation manual.)

- 1. Completely tighten the flare nuts, A, B, C, D, connect the manifold valve charge hose to a charge port of the low-pressure valve on the gas pipe side.
- 2. Connect the charge hose connection to the vacuum pump.
- 3. Fully open the handle Lo of the manifold valve.
- 4. Operate the vacuum pump to evacuate. After starting evacuation, slightly loose the flare nut of the Lo valve on the gas pipe side and check that the air is entering (Operation noise of the vacuum pump changes and a compound meter indicates 0 instead of minus)
- 5. After the evacuation is complete, fully close the handle Lo of the manifold valve and stop the operation of the vacuum pump.
  Make evacuation for 15 minutes or more and check that the compound meter indicates -29.92 Hg (-1x10<sup>5</sup>Pa).
- 6. Turn the stem of the packed valve B about 45° counterclockwise for 6~7 seconds after the gas coming out, then tighten the flare nut again. Make sure the pressure display in the pressure indicator is a little higher than the atmosphere pressure.

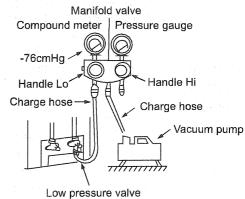


Fig.24

- 7. Remove the charge hose from the Low pressure charge hose.
- 8. Fully open the packed valve stems B and A.
- 9. Securely tighten the cap of the packed valve.

#### Safety and leakage check

#### Electrical safety check

Perform the electric safe check after completing installation:

- 1. Insulated resistance
  - The insulated resistance must be more than 2M  $\Omega$  .
- 2. Grounding work
  - After finishing grounding work, measure the grounding resistance by visual detection and grounding resistance tester. Make sure the grounding resistance is less than  $4 \Omega$ .
- 3. Electrical leakage check (performing during test running)

  During test operation after finishing installation, the serviceman can use the electroprobe and multimeter to perform the electrical leakage check. Turn off the unit immediately if leakage happens.

#### Gas leak check

- 1. Soap water method:
  - Apply a soap water or a liquid neutral detergent on the indoor unit connection or outdoor unit connections by a soft brush to check for leakage of the connecting points of th piping. If bubbles come out, the pipes have leakage.
- Leak detectorUse the leak detector to check for leakage.

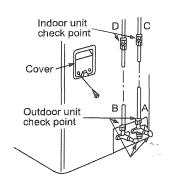


Fig.25

#### CAUTION

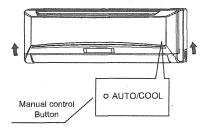
A: Lo packed valve B: Hi packed valve C and D are ends of indoor unit connection.

#### Test running

- 1. Check that all tubing and wiring have been properly connected.
- 2. Check that the gas and liquid side service valves are fully open.

## Perform test running after completing gas leak and electrical safety check. The test running time should last more than 30 minutes.

- 1. Hold the panel sides and push it upward, then lift the panel up to an angle which remains fixed. Do not lift the panel any further when it stops with a "click" sound.
- 2. Press the manual control button twice until the operating indicator lights up, the unit will operate on Forced Cool mode.
- 3. Check if all the functions works well during test Mode. Especially check whether the drainage of indoor unit is smooth or not.
- 4. Press the manual switch button again after finishing the test running. The operating indicator turns dark and the unit stops operating.



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