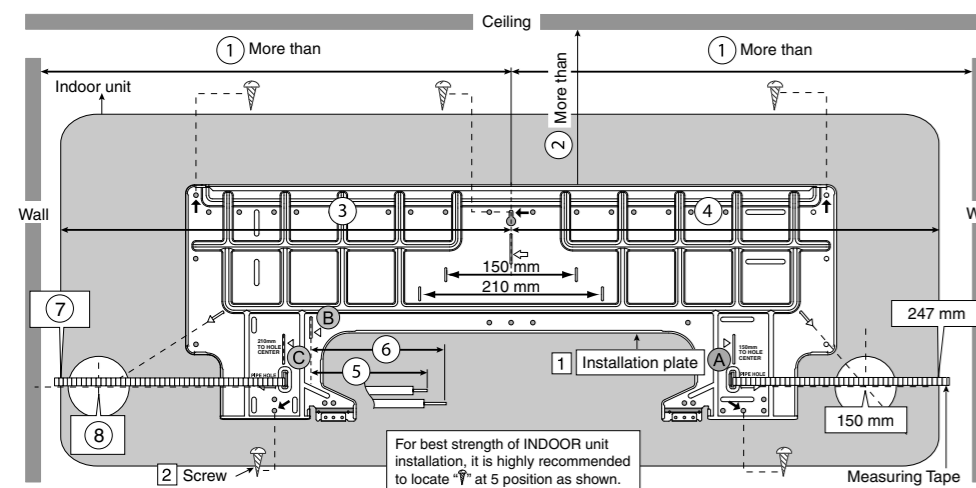


1 SELECT THE BEST LOCATION (Refer to "Select the best location" section)

2 HOW TO FIX INSTALLATION PLATE

The mounting wall shall be strong and solid enough to prevent it from vibration.



Model	Dimension							
	①	②	③	④	⑤	⑥	⑦	⑧
2.0HP, 2.5HP	587 mm	70 mm (-)	537 mm	503 mm	176 mm	228 mm	276 mm	210 mm

- The center of installation plate should be at more than ① at right and left of the wall.
- The distance from installation plate edge to ceiling should more than ②.
- From installation plate center to unit's left side is ③.
- From installation plate center to unit's right side is ④.

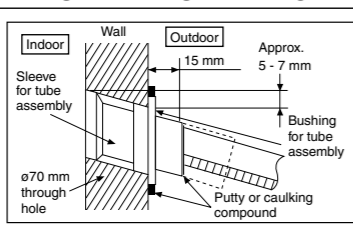
Dimension ②

(+) > If holder at the rear of chassis (Refer column "4 Indoor Unit Installation") need to be used to prop up the unit, this distance shall be 85 mm or more.

- For left side piping, piping connection for liquid should be about ⑤ from this line.
 - For left side piping, piping connection for gas should be about ⑥ from this line.
- Mount the installation plate on the wall with 5 screws or more (at least 5 screws). (If mounting the unit on the concrete wall, consider using anchor bolts.)
 - Always mount the installation plate horizontally by aligning the marking-off line with the thread and using a level gauge.
 - Drill the piping plate hole with $\phi 70$ mm hole-core drill.
 - Line according to the left and right side of the installation plate. The meeting point of the extended line is the center of the hole. Another method is by putting measuring tape at position as shown in the diagram above. The hole center is obtained by measuring the distance namely 210 mm for left hole (2.0 - 2.5HP).
 - Drill the piping hole at either the right or the left and the hole should be slightly slanting to the outdoor side.

3 TO DRILL A HOLE IN THE WALL AND INSTALL A SLEEVE OF PIPING

- Insert the piping sleeve to the hole.
- Fix the bushing to the sleeve.
- Cut the sleeve until it extrudes about 15 mm from the wall.



- CAUTION**
- When the wall is hollow, please be sure to use the sleeve for tube assembly to prevent dangers caused by mice biting the connection cable.

- Finish by sealing the sleeve with putty or caulking compound at the final stage.

1 SELECT THE BEST LOCATION (Refer to "Select the best location" section)

2 INSTALL THE OUTDOOR UNIT

After selecting the best location, start installation to Indoor/Outdoor Unit Installation Diagram.

- Fix the unit on concrete or rigid frame firmly and horizontally by bolt nut ($\phi 10$ mm). Make sure unit install in balance level to ensure that water flow out from unit drainage hole.
- When installing at roof, please consider strong wind and earthquake. Please fasten the installation stand firmly with bolt, screws or nails.

Model	Dimension			
	A	B	C	D
2.0HP	540 mm	160 mm	18.5 mm	330 mm
2.5HP	613 mm	130 mm	24 mm	360.5 mm

3 CONNECT THE PIPING

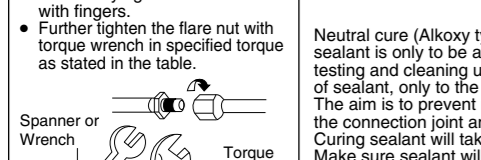
Connecting The Piping to Indoor

For connection joint of all models

Please make flare after inserting (locate at joint portion of tube assembly) onto the copper pipe. (In case of using long piping)

Connect the piping

- Align the center of piping and sufficiently tighten the flare nut with fingers.
- Further tighten the flare nut with torque wrench in specified torque as stated in the table.



Connecting The Piping to Outdoor

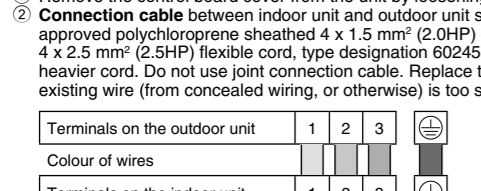
Decide piping length and then cut by using pipe cutter. Remove burrs from cut edge.

Make flare after inserting the flare nut (locate at valve) onto the copper pipe. Align center of piping to valve and then tighten with torque wrench to the specified torque as stated in the table.

Piping size	Torque
6.35 mm (1/4")	18 Nm (1.8 kgf·m)
9.52 mm (3/8")	42 Nm (4.3 kgf·m)
12.7 mm (1/2")	55 Nm (5.6 kgf·m)
15.88 mm (5/8")	65 Nm (6.6 kgf·m)
19.05 mm (3/4")	100 Nm (10.2 kgf·m)

5 CONNECT THE CABLE TO THE OUTDOOR UNIT

- Remove the control board cover from the unit by loosening the screw.
- Connection cable between indoor unit and outdoor unit shall be approved polychloroprene sheathed 4 x 1.5 mm² (2.0HP) or 4 x 2.5 mm² (2.5HP) flexible cord, type designation 60245 IEC 57 or heavier cord. Do not use joint connection cable. Replace the wire if the existing wire (from concealed wiring, or otherwise) is too short.



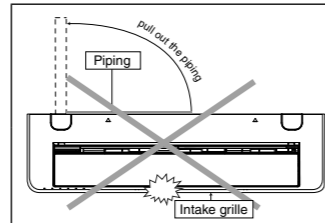
- Secure the cable onto the control board with the holder (clammer).
- Attach the control board cover back to the original position with screw.
- For wire stripping and connection requirement, refer to instruction ⑤ of indoor unit.

- Earth wire shall be Yellow/Green (Y/G) in colour and longer than other AC wires for safety reason.

6 PIPING INSULATION

- Please carry out insulation at pipe connection portion as mentioned in Indoor/Outdoor Unit Installation Diagram. Please wrap the insulated piping end to prevent water from going inside the piping.
- If drain hose or connecting piping is in the room (where dew may form), please increase the insulation by using POLY-E FOAM with thickness 6 mm or above.

4 INDOOR UNIT INSTALLATION



- Do not turn over the unit without shock absorber during pull out the piping. It may cause intake grille damage.
- Use shock absorber during pull out the piping to protect the intake grille from damage.

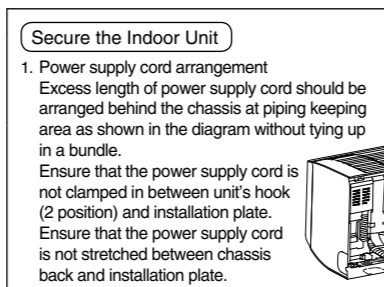
1. FOR THE RIGHT REAR PIPING

- Step-1 Pull out the Indoor piping
- Step-2 Install the Indoor Unit
- Step-3 Secure the Indoor Unit
- Step-4 Insert the connection cable

2. FOR THE RIGHT AND RIGHT BOTTOM PIPING

- Step-1 Pull out the Indoor piping
- Step-2 Install the Indoor Unit
- Step-3 Insert the connection cable
- Step-4 Secure the Indoor Unit

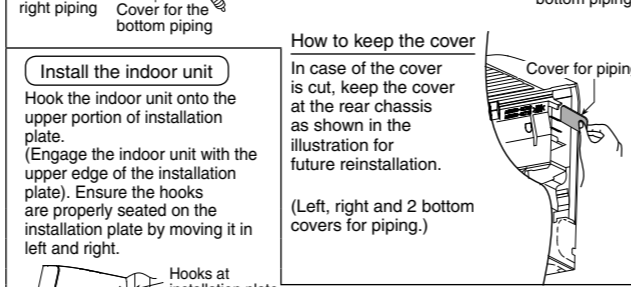
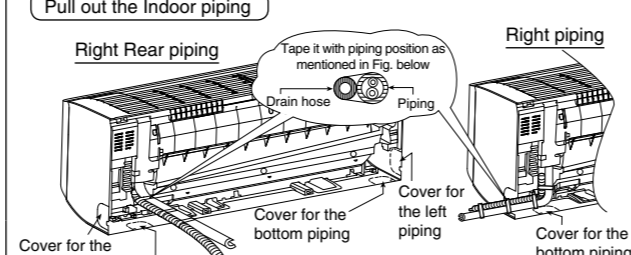
- If indoor power supply, excess length of power supply must arrange accordingly, please refer "Power supply cord arrangement" before secure the indoor unit.



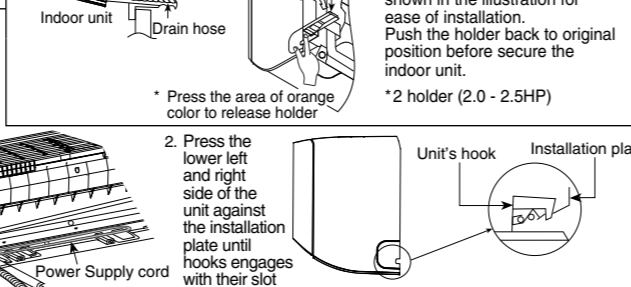
Secure the Indoor Unit

- Power supply cord arrangement
- Press the lower left and right side of the unit against the installation plate until hooks engages with their slot (sound click).

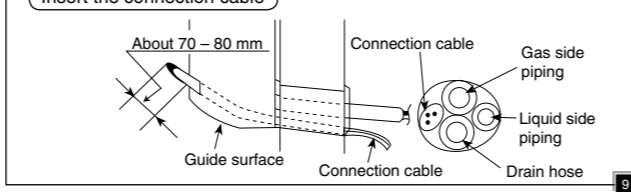
1. FOR THE RIGHT REAR PIPING



- Holder
- Holder (2.0 - 2.5HP)



Insert the connection cable

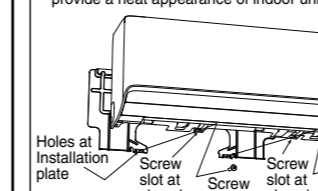


3. FOR THE EMBEDDED PIPING

- Step-1 Change the drain hose position
- Step-2 Bend the embedded piping
- Step-3 Pull the connection cable into Indoor Unit
- Step-4 Cut and flare the embedded piping
- Step-5 Install the Indoor Unit
- Step-6 Connect the piping
- Step-7 Insulate and finish the piping
- Step-8 Secure the Indoor Unit

(This can be used for left rear piping also.)

- Fasten the chassis to the installation plate with screws (Self purchase, Screw size: M4, max. length 10 mm) to provide a neat appearance of indoor unit.

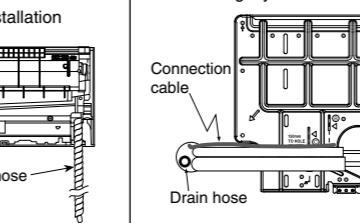


5 CONNECT THE CABLE TO THE INDOOR UNIT

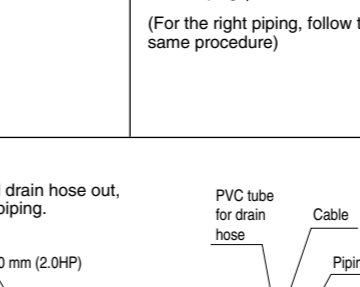
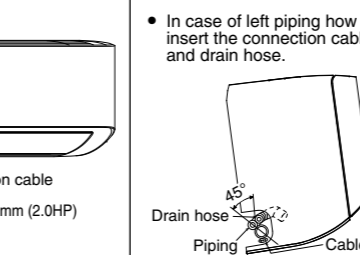
The indoor and outdoor unit connection cable can be connected without removing the front grille.

- Install the indoor unit on the installing holder that mounted on the wall.
- Open the front panel and grille door by loosening the screw.
- Connection cable between indoor unit and outdoor unit shall be approved polychloroprene sheathed, 4 x 1.5 mm² (2.0HP) or 4 x 2.5 mm² (2.5HP), flexible cord, type designation 60245 IEC 57 or heavier cord. Do not use joint connection cable. Replace the wire if the existing wire (from concealed wiring, or otherwise) is too short.
- Bind all the indoor and outdoor Connection cable with tape and route the connection cable via the right side escapement.

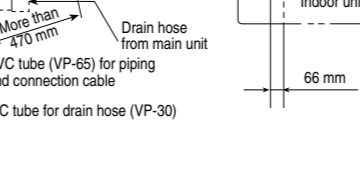
Change the drain hose position



Adjust the piping slightly downwards.



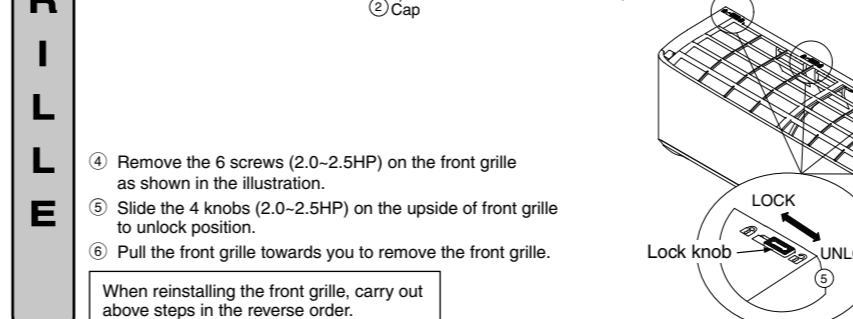
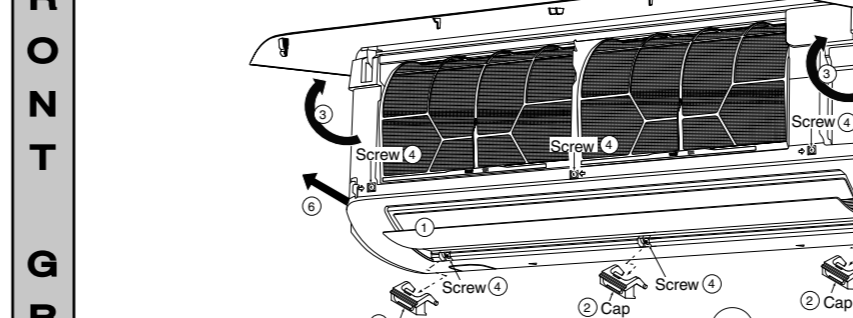
- How to pull the piping and drain hose out, in case of the embedded piping.



HOW TO TAKE OUT FRONT GRILLE

Please follow the steps below to take out front grille if necessary such as when installing or servicing.

- Set the vertical vane airflow direction louvers to the horizontal position.
- Remove the 3 caps (2.0-2.5HP) on the front grille as shown in the illustration.
- Open front panel.



AUTO SWITCH OPERATION

The below operations will be performed by pressing the "AUTO" switch.

- AUTO OPERATION MODE
 - The Auto operation will be activated immediately once the Auto Switch is pressed and release within 5 sec..
- TEST RUN OPERATION (FOR PUMP DOWN/SERVICING PURPOSE)
 - The Test Run operation will be activated if the Auto Switch is pressed continuously for more than 5 sec. to below 8 sec.. A "peep" sound will occur at the fifth sec., in order to identify the starting of Test Run operation.
- REMOTE CONTROLLER RECEIVING SOUND ON/OFF
 - The ON/OFF of Remote controller receiving sound can be change over by the following steps:
 - Press "AUTO" switch continuously for more than 16 sec. to below 21 sec.. A "pep", "pep", "pep", "pep" sound will occur at the sixteenth sec..
 - Press the "AC Reset" button once, "pep" sound will occur indicates that Remote controller receiving sound setting mode is activated.
 - Press "AUTO" switch again. Everytime "AUTO" switch is pressed (within 60 sec. interval), Remote controller receiving sound status will be reversed between ON and OFF. Long "peep" sound indicates that Remote controller receiving sound is ON. Short "pep" sound indicates that Remote controller receiving sound is OFF.

DISPOSAL OF OUTDOOR UNIT DRAIN WATER

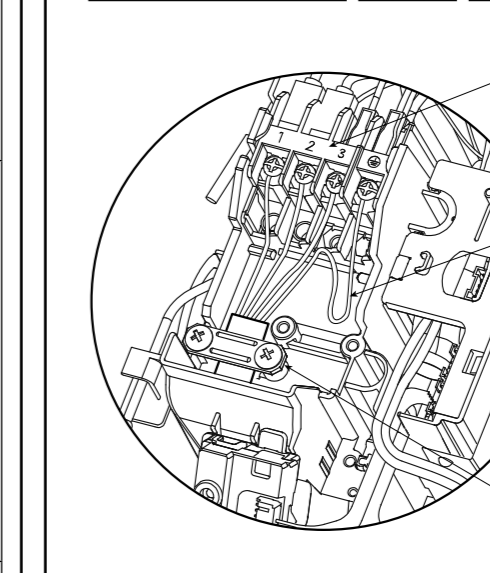
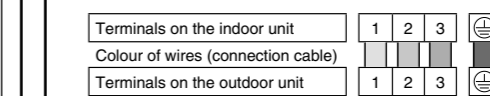
- If a drain elbow is used, the unit should be placed on a stand which is taller than 5 cm.
- If the unit is used in an area where temperature falls below 0°C for 2 or 3 days in succession, it is recommended not to use a drain elbow, for the drain water freezes and the fan will not rotate.

CUTTING AND FLARING THE PIPING

- Please cut using pipe cutter and then remove the burrs.
- Remove the burrs by using reamer. If burrs is not removed, gas leakage may be caused.
- Please make flare after inserting the flare nut onto the copper pipes.

5 REMOVE THE TAPES AND CONNECT THE CONNECTION CABLE

between indoor unit and outdoor unit according to the diagram below.

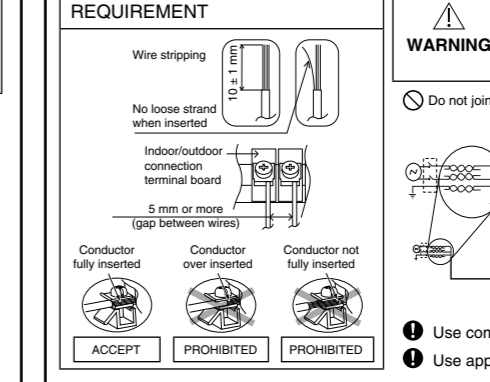


- Secure firmly the connecting cable onto the control board with the holder. Do not overtighten holder screw, as this may damage the holder.
- Close grille door by tighten with screw and close the front panel.

Note:

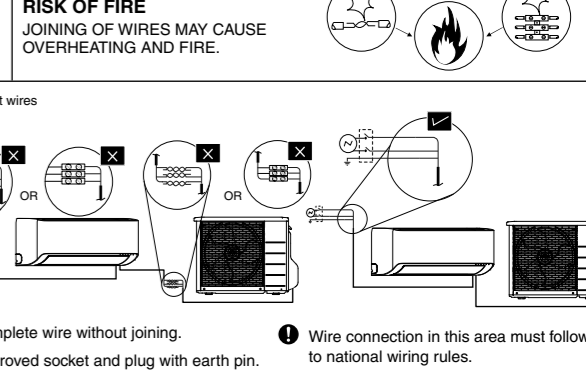
- Isolating Devices (Disconnecting means) should have minimum 3.0 mm contact gap.
- Ensure the colour of wires of outdoor unit and the terminal Nos. are the same to the indoor's respectively.
- Earth wire shall be Yellow/Green (Y/G) in colour and longer than other AC wires as shown in the figure for the electrical safety in case of the slipping out of the cord from the anchorage.

WIRE STRIPPING, CONNECTING REQUIREMENT



- Use complete wire without joining.
- Use approved socket and plug with earth pin.

RISK OF FIRE JOINING OF WIRES MAY CAUSE OVERHEATING AND FIRE.



CHECK THE DRAINAGE

- Open front panel and remove air filters.
- Drainage checking can be carried out without removing the front grille.
- Pour a glass of water into the drain tray-styrofoam.
- Ensure that water flows out from drain hose of the indoor unit.

EVALUATION OF THE PERFORMANCE

- Operate the unit at cooling/heating operation mode for fifteen minutes or more.
- Measure the temperature of the intake and discharge air.
- Ensure the difference between the intake temperature and the discharge is more than 8 °C during Cooling operation or more than 14 °C during Heating operation.

Note:

- During winter, turn on the power supply and standby the unit for at least 15 minutes before test run. Allow sufficient time to warm up refrigerant and prevent wrong error code judgement.

INSTALLATION OF AIR PURIFYING FILTER/ DUST COLLECTOR FILTER

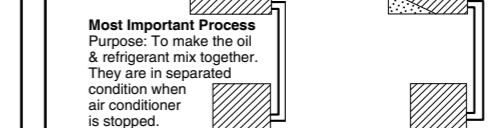
- Open the front panel.
- Remove the air filters.
- Put the Air Purifying Filter into place as shown in illustration at right.

IN CASE OF REUSING EXISTING REFRIGERANT PIPING

- Observe the followings to decide reusing the existing refrigerant piping. Poor refrigerant piping could result in product failure.
- In the circumstances listed below, do not reuse any refrigerant piping. Instead, make sure to install a new piping.
 - Heat insulation is not provided for either liquid-side or gas-side piping or both.
 - The existing refrigerant pipe has been left in an open condition.
 - The diameter and thickness of the existing refrigerant piping does not meet the requirement.
 - The piping length and elevation does not meet the requirement.
- Perform proper pump down before reuse piping.
- In the circumstances listed below, clean it thoroughly before reuse.
 - Pump down operation cannot be performed for the existing air-conditioner.
 - The compressor has a failure history.
 - Oil color is darkened. (ASTM 4.0 and above).
 - The existing air-conditioner is gas/oil heat pump type.
- Do not reuse the flare to prevent gas leak. Make sure to install a new flare.
- If there is a welded part on the existing refrigerant piping, conduct a gas leak check on the welded part.
- Replace deteriorated heat insulating material with a new one.
- Heat insulating material is required for both liquid-side and gas-side piping.

Proper Pump Down Method

- Operate air conditioner at cooling mode for 10 - 15 minutes.
- After 10 - 15 minutes of pre operation, close 2 way valve. After 3 minutes, close 3 way valve.
- Take out air conditioner unit.
- Install New Refrigerant air conditioner.



CHECK ITEMS

- Is there any gas leakage at flare nut connections?
- Is the indoor unit properly hooked to the installation plate?
- Has the heat insulation been carried out at flare nut connections?
- Is the power supply voltage complied with rated value?
- Is the connection cable being fixed to terminal board firmly?
- Is there any abnormal sound?
- Is the connection cable being clamped firmly?
- Is the cooling/heating operation normal?
- Is the drainage ok? (Refer to "Check the drainage" section)
- Is the thermostat operation normal?
- Is the earth wire connection properly done?
- Is the remote control's LCD operation normal?

1 選擇最佳位置 (參考“選擇最佳位置”之頁)

2 如何固定安裝板

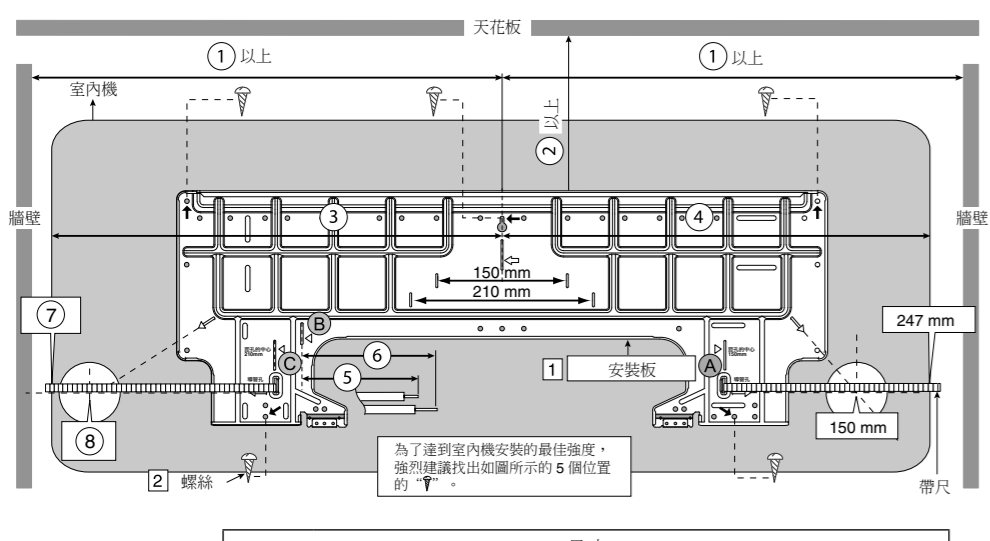
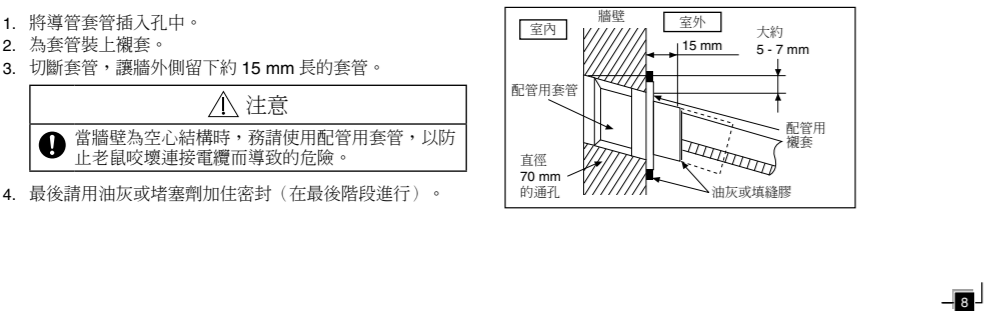


Table with 8 columns for model types (2.0HP, 2.5HP) and dimensions for mounting holes.

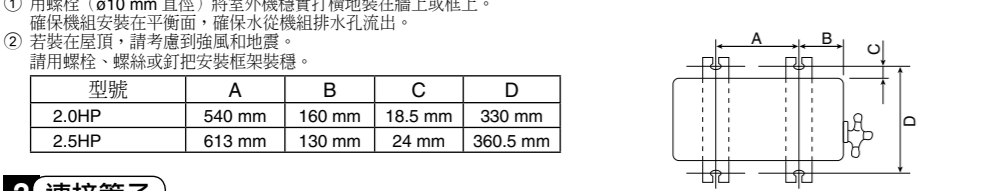
- 安裝板的中心點到左及右邊牆電的距離應大於 ①。
• 從安裝板邊緣到天花板的距離應大於 ②。
• 從安裝板中心到本機左側為 ③。
• 從安裝板中心到本機右側為 ④。
• 至於左邊導管，從這條線起至液體管連接的距離應約為 ⑤。
• 至於右邊導管，從這條線起至氣態管連接的距離應約為 ⑥。

3 在牆上鑽孔及安裝導管套管



1 選擇最佳位置 (參考“選擇最佳位置”之頁)

2 裝置室外機



3 連接管子

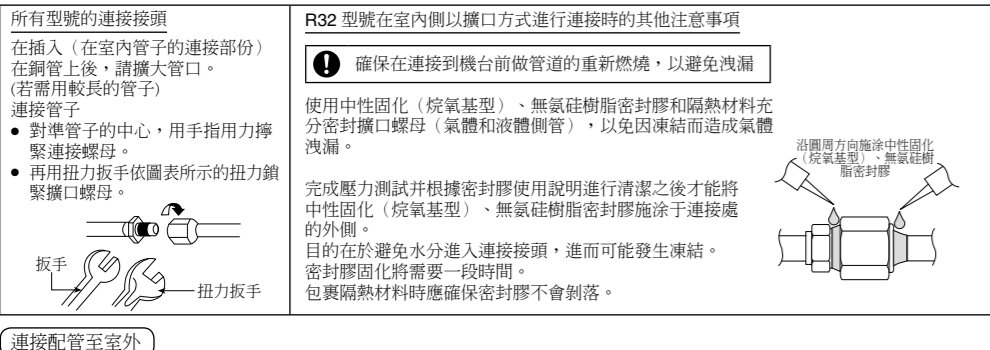
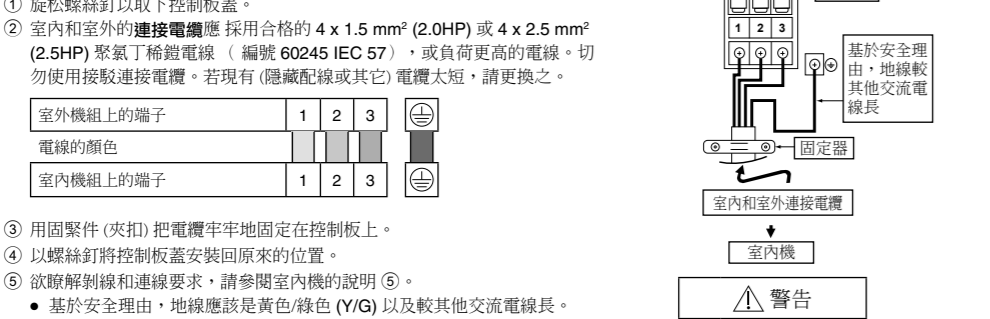


Table with 2 columns for pipe sizes and corresponding torque values for different pipe diameters.

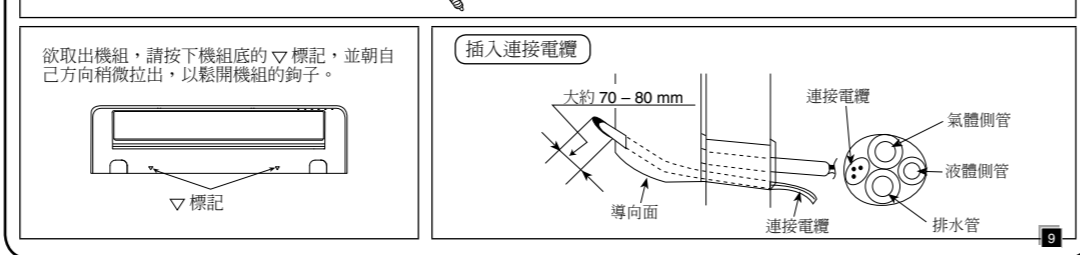
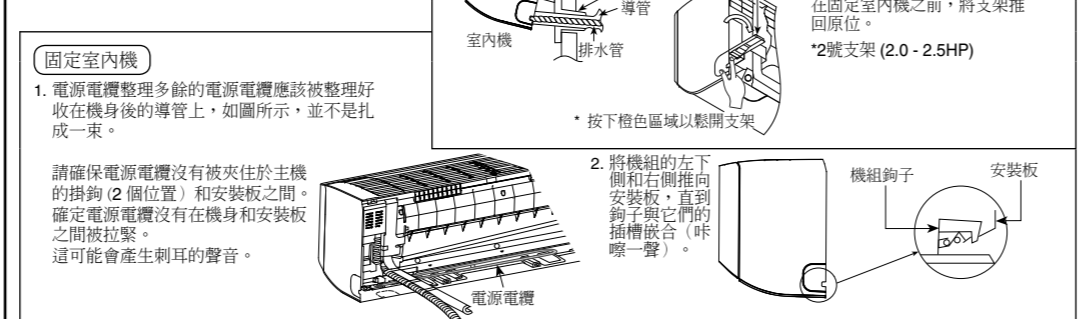
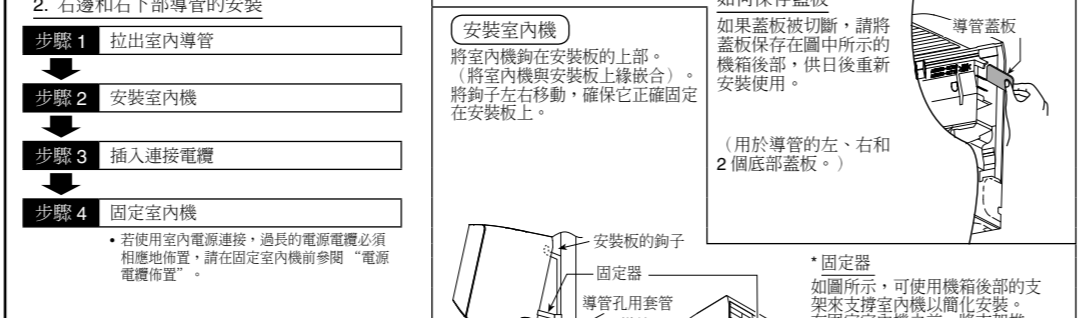
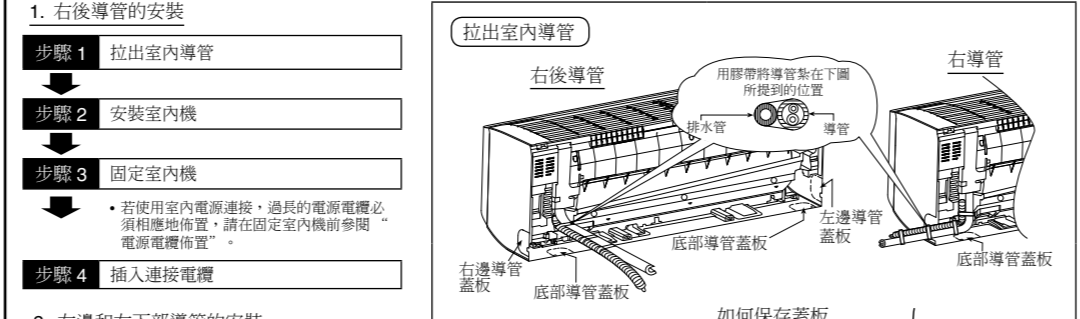
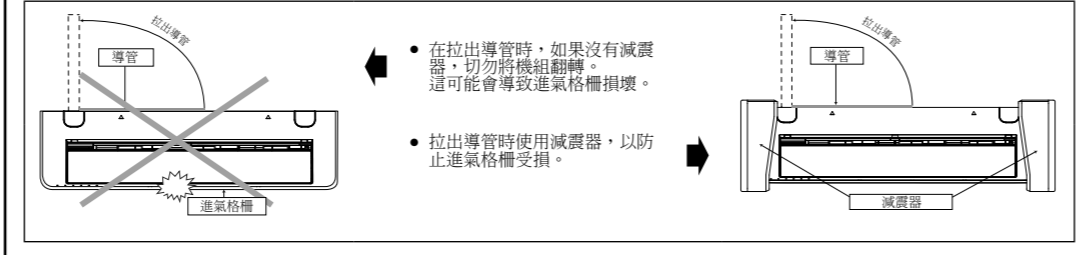
5 將電線連接至室外機



6 喉管絕緣

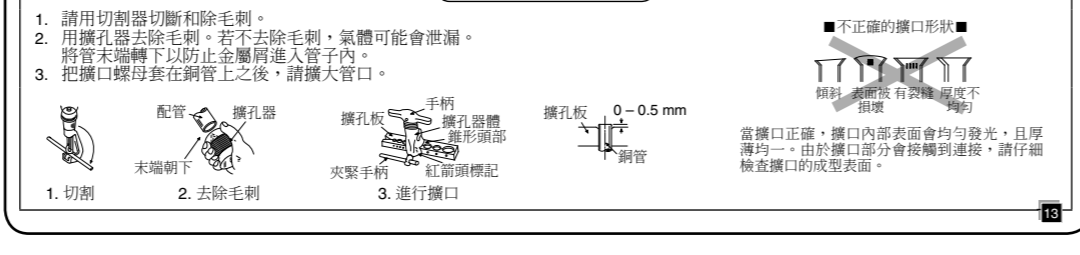
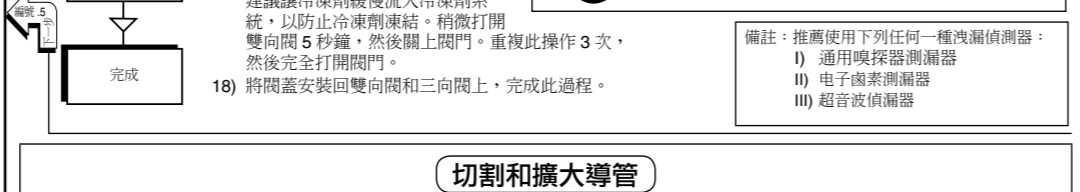
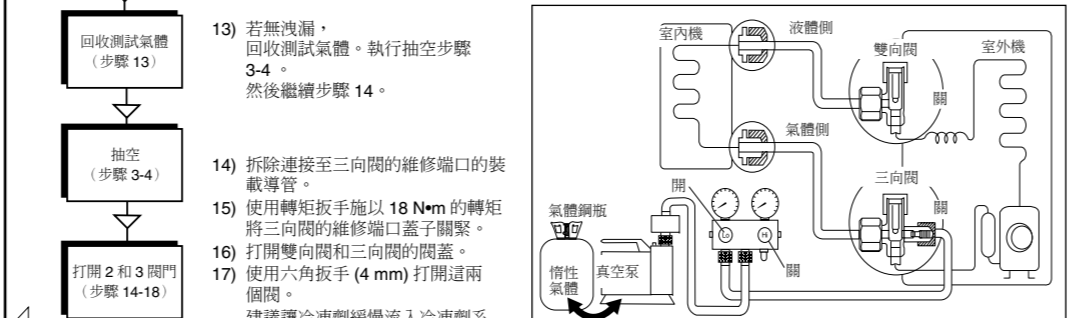
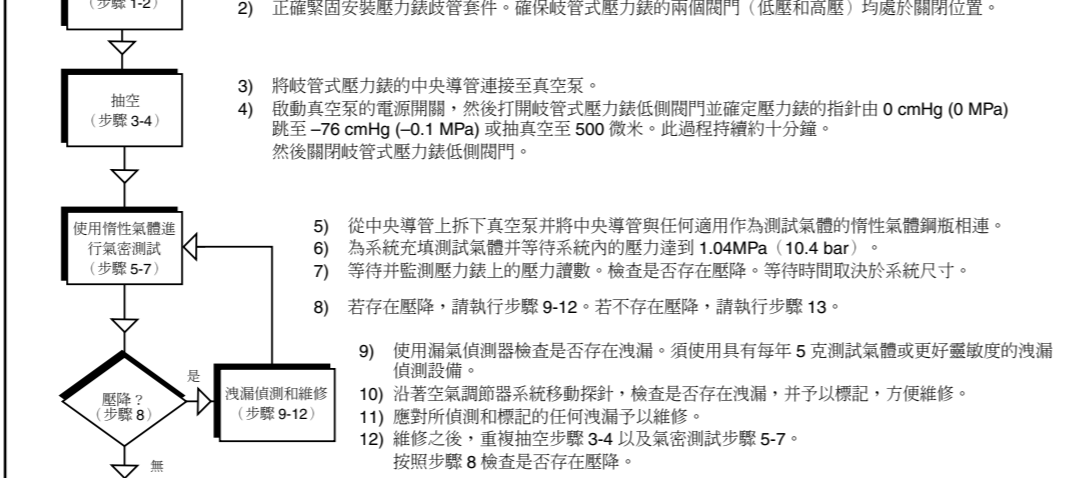
- 1. 請如室內/室外機安裝圖所示在配管連接部分進行絕緣。
請包好絕緣的管子未端包紮好，以防止水滲透管子內。
2. 如果排水管或連接配管位於室內 (露滴將形成)，請使用厚度至少 6 mm 或以上的聚乙烯泡沫增加絕緣。

4 室內機的安裝

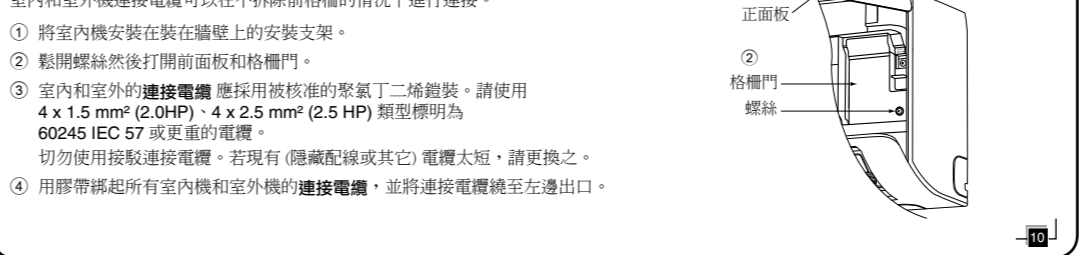
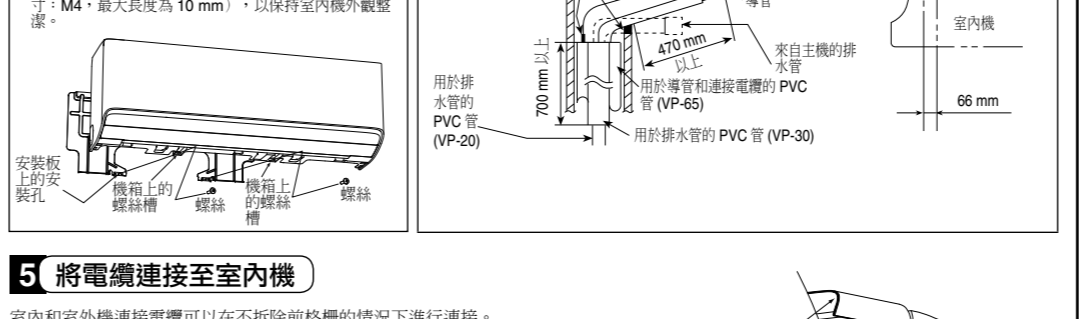
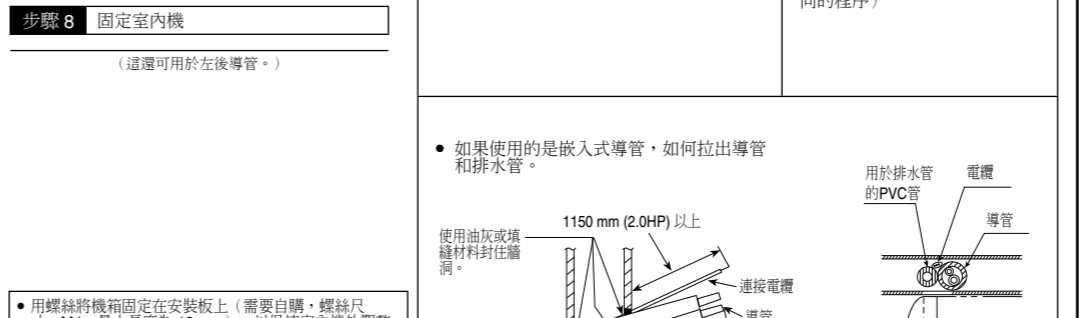
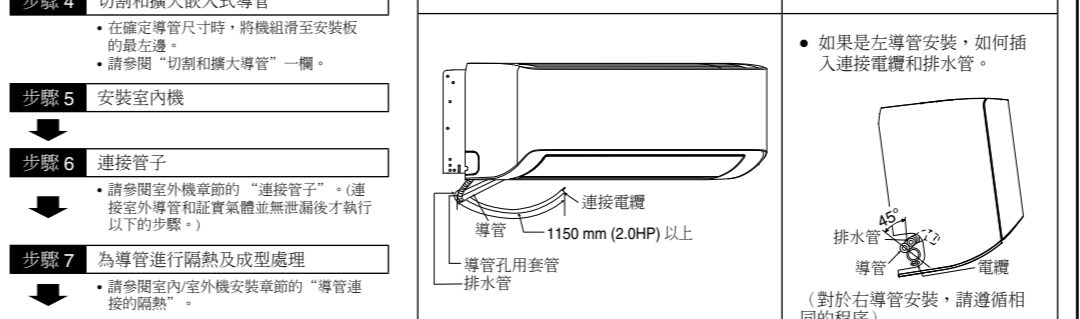
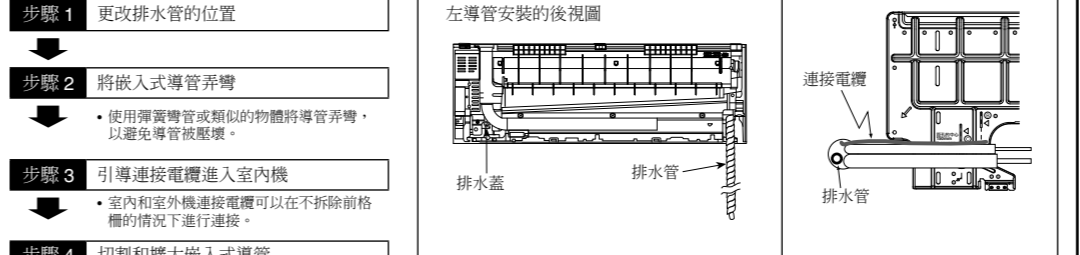


4 製冷系統氣密測試

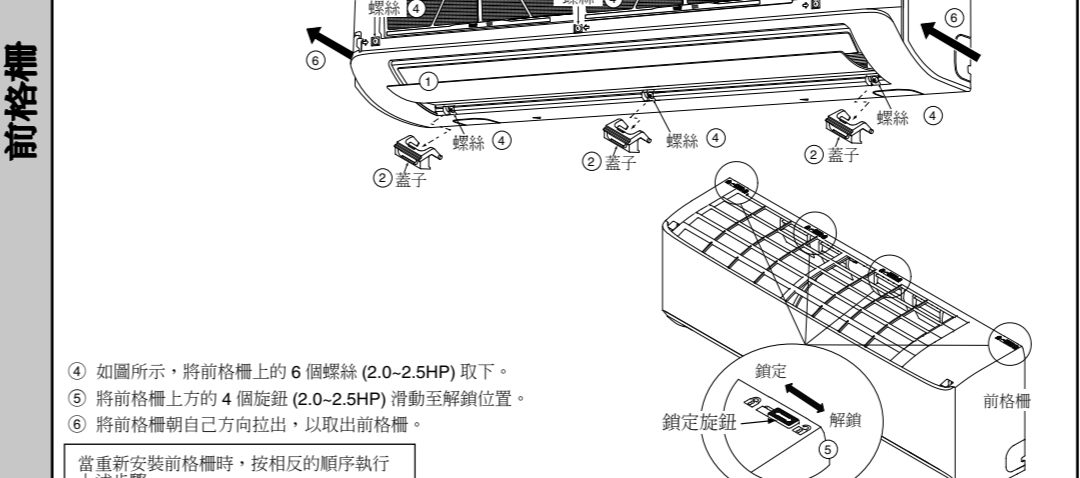
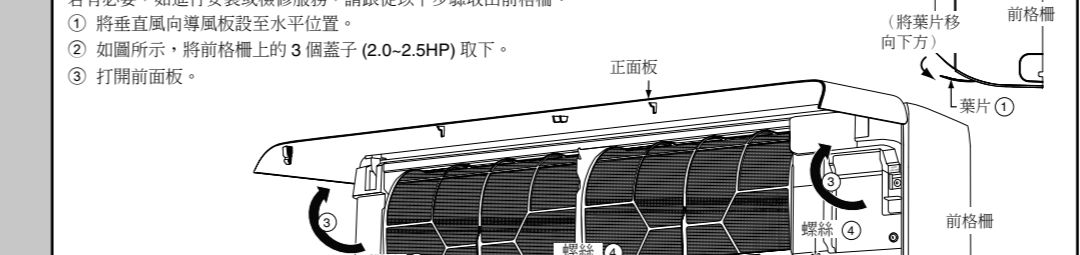
- 切勿使用冷劑排除系統內的空氣，而應使用真空泵為裝置抽真空。
• 室外機內不存在額外定期用於排除空氣。
• 在為系統充填冷劑之前以及製冷系統投入工作之前，應由經認證的技術人員和/或安裝工對下方現場測試程式和驗收準則予以核實。
• 請務必檢查整個系統是否存在氣體洩漏。



3. 嵌入式配管的處理

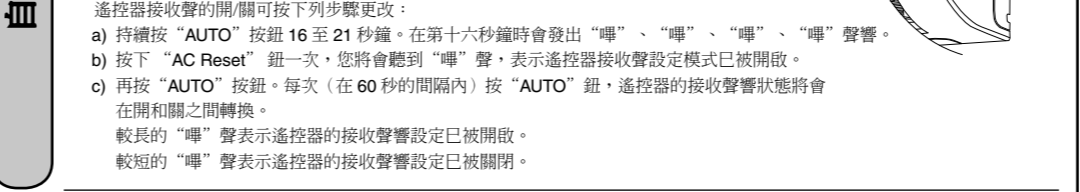


如何取出前格柵

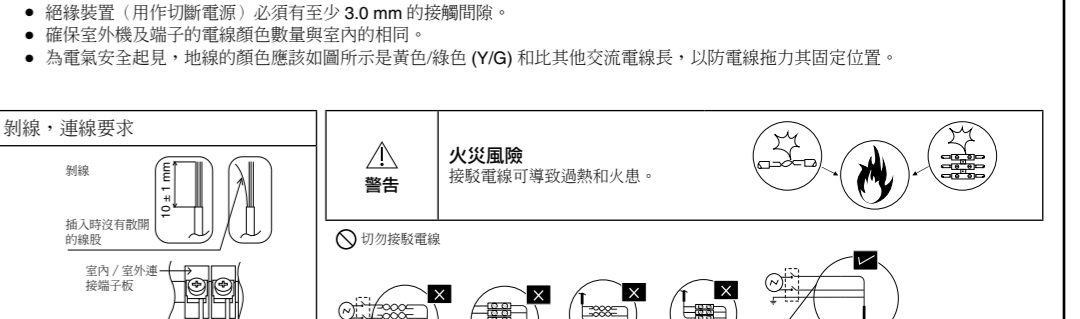
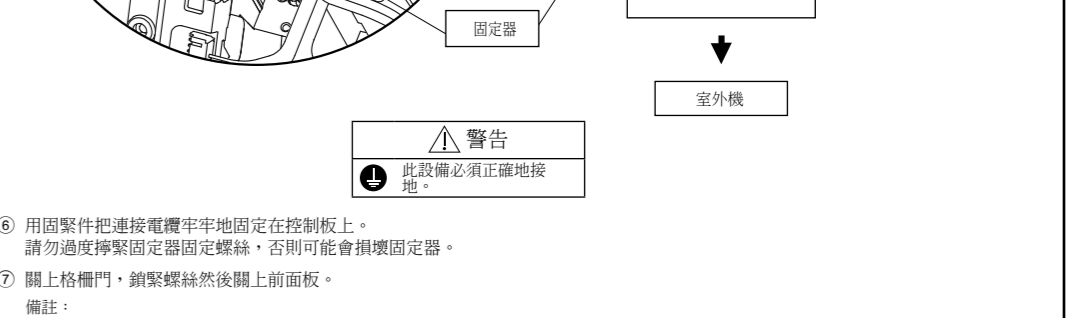
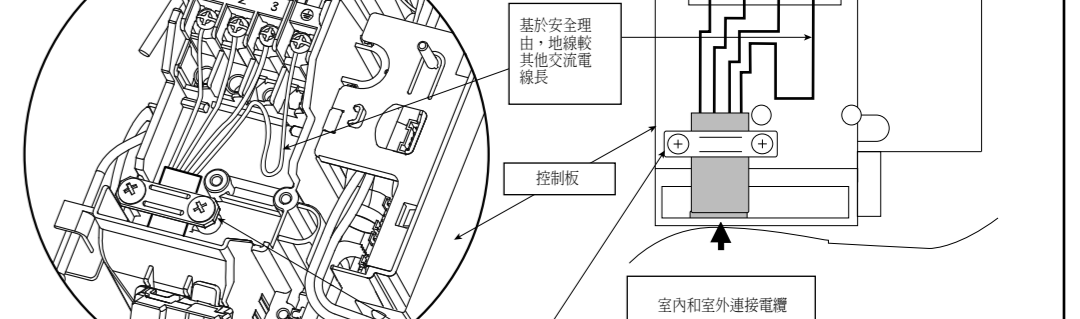
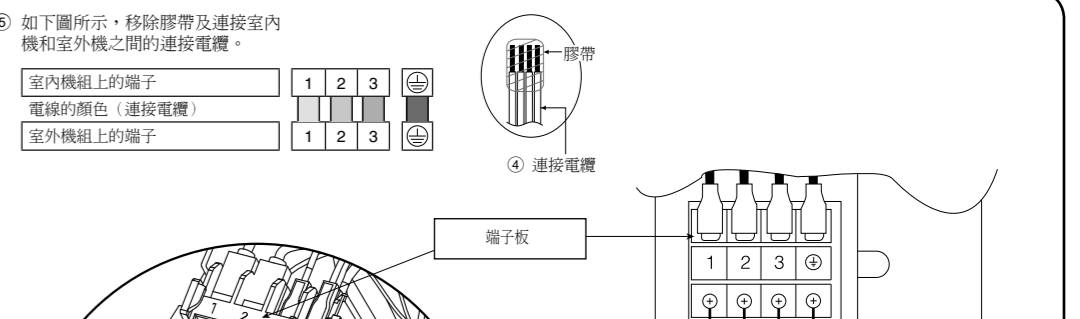
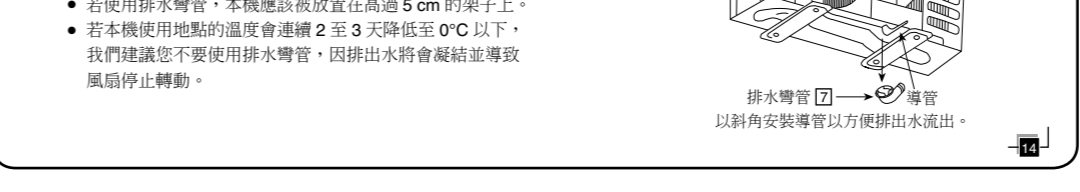


自動開關操作

- 以下操作將通過“AUTO”開關來執行。
1. 自動操作模式
一旦按下“自動開關”按鈕并在 5 秒之內鬆開，自動操作將立即生效。
2. 試運轉操作 (用於抽氣/檢修目的)
如果持續自動按鍵 5 至 8 秒鐘，試運轉操作將被激活。“嗶”聲在 5 秒時將會響起，以顯示測試已開始操作。
3. 遙控器接收聲的開關
遙控器接收聲的開關可按下列步驟更改：
a) 持續按“AUTO”按鈕 16 至 21 秒鐘。在第十六秒鐘時會發出“嗶”、“嗶”、“嗶”、“嗶”聲音。
b) 按下“AC Reset”按鈕一次，您將會聽到“嗶”聲，表示遙控器接收聲設定模式已被開啟。
c) 再按“AUTO”按鈕。每次 (在 60 秒的間隔內) 按“AUTO”鈕，遙控器的接收聲狀態將會開和關之間轉換。
較長的“嗶”聲表示遙控器的接收聲設定已被開啟。
較短的“嗶”聲表示遙控器的接收聲設定已被關閉。



如何處理室外機排出的水



檢查排水

- 打開前面板，然後取下空氣過濾器。
(排水檢查可在不卸下前格柵的情況下進行。)
• 在下列情況下，請勿運轉用任何冷劑配管。反之請確保安裝的配管。
- 沒有配管絕緣層於液體管或氣態管側配管或兩者。
- 現有冷劑配管處於打開狀況。
- 現有冷劑配管的直徑和厚度不符合要求。
- 配管長度和角度不符合要求。
• 在重新使用配管之前，請進行正確的抽氣。
• 在以下情況下，請在重新使用前徹底清潔。
- 現有空調器的抽氣操作無法進行。
- 壓縮機油顏色變深。(ASTM 4.0 及以上版本)。
- 現有油顏色是氣態油熱泵型。
• 請勿運轉再用開口以避免漏氣。請確保安裝好的開口。
• 如果現有冷劑配管有被拆掉的部分，在被拆掉處進行洩氣檢查。
• 更換失效熱絕緣層。
熱絕緣必須用於液體管和氣態側配管。

