

Please read this manual carefully before installation and keep it for future reference.

Installation Manual



MRCOOL™
COMFORT MADE SIMPLE

Oasis Hyper Heat Series

Please keep this manual where the operator can easily find it. Inside you will find helpful hints on how to use and maintain your unit properly.

For more details visit www.MrCool.com

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9K & 12K INSTALLATION

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18K & 24K INSTALLATION

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Installation Precautions

- Please read this installation manual carefully before operating the unit, to ensure correct installation.
- If the power cord is damaged, replacement work must be performed by authorised personnel only.
- Installation must be performed in accordance with the requirement of NEC and CEC by authorized personnel only.
- Contact an authorized service technician for repair, maintenance and installation of this unit.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by persons responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.
- All the pictures in the instructions are for explanation purposes only. Actual shape may vary.
- The design and specifications are subject to change without prior notice for product improvement. Consult with the sales agency or manufacturer for more details.

Safety Precautions

- Please read these safety precautions carefully before installation.
- Be sure to follow all the precautions below, they are all important for ensuring safety.

 WARNING	This symbol indicates the possibility of death or serious injury.
 CAUTION	This symbol indicates the possibility of injury or damage to property.

 WARNING	
1)	Install according to these installation instructions. If installation is defective, it will cause water leakage, electrical shock, or fire.
2)	Use the included accessories parts specified parts for installation. If you do not this will cause the set to fall, water leakage, electrical shock, or fire.
3)	Install at a strong and stable location which is able to withstand the sets weight. If not or installation is not properly done, the set will drop and cause injury.
4)	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, or fire.
5)	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 correct, it will cause heat-up or fire at the connection.
6)	Wiring routing must be properly arranged so that control board cover is fixed properly. If control board cover is not fixed correctly, it will overheat at the connection point of terminal, fire or electrical shock.
7)	When carrying out piping connection, take care not to let gaseous substances other than the specified refrigerant go into refrigeration cycle. Failing to do this will cause lower capacity, abnormal high pressure in the refrigeration cycle, explosion and injury.
8)	Do not modify the length of the power supply cord or use an extension cord, and do not share the single outlet with other electrical appliances or, it will cause fire or electrical shock.
 CAUTION	
1)	This equipment must be grounded and installed with a ground leakage current breaker. Electrical shock may occur if grounding is not performed correctly.
2)	Do not install the unit near flammable gas.
3)	Carry out drainage piping as mentioned in these installation instructions. If drainage is not performed correctly, water may enter the room and damage the furniture.

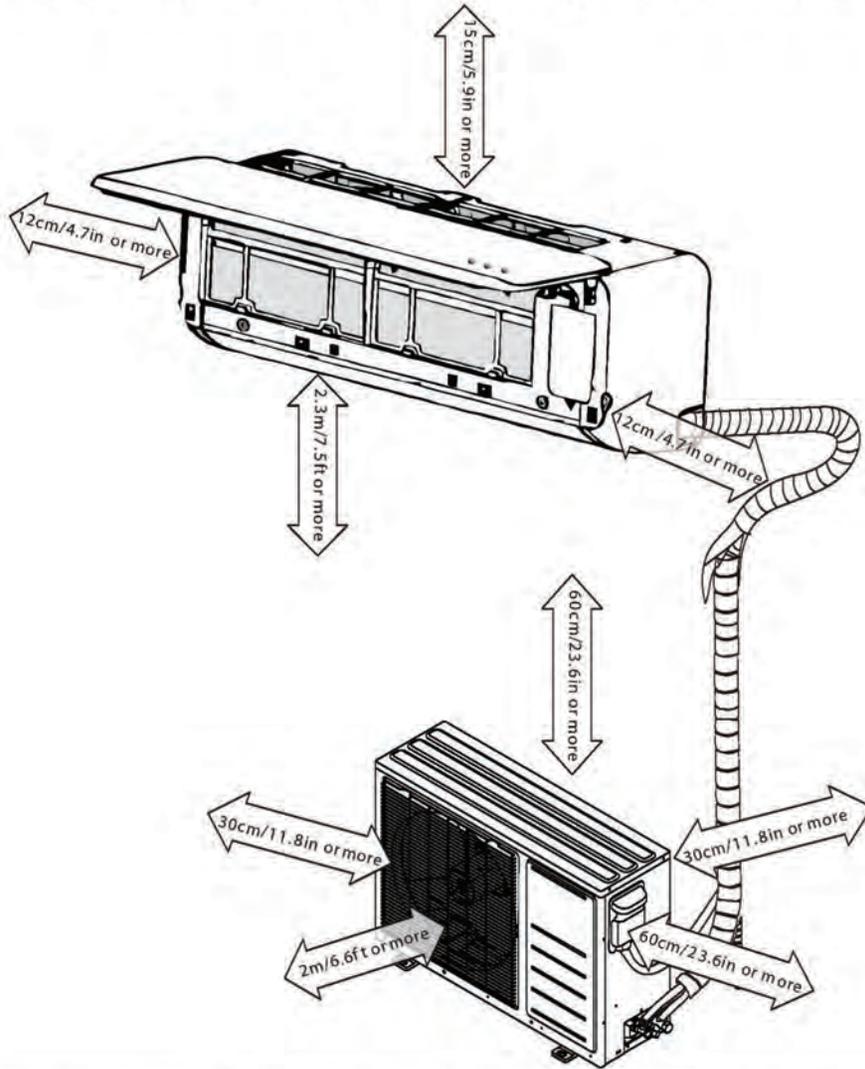
Indoor Unit

- Chosen location must be able to bear the weight of the unit.
- Chosen location must NOT be near a direct source of heat, such as direct sunlight or any heating appliance.
- Chosen location must provide appropriate clearances as shown in the figure below.

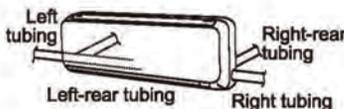
Outdoor Unit

- Chosen location should not be exposed to strong winds. If the unit is exposed to strong winds it is recommended that a wind baffle be used.
- Chosen location must be able to bear the weight of the unit and hold the unit level.
- Chosen location must provide appropriate clearances as shown in the figure below.

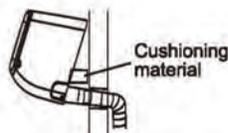
Do not install the indoor or outdoor units in a location with special environmental conditions.



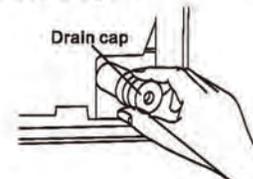
The refrigerant lines may be routed in any of the four directions.



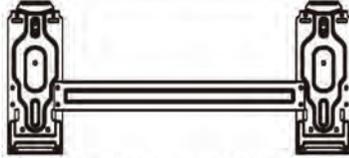
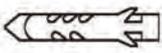
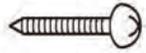
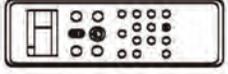
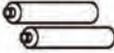
Put a cushioning material to have installation space for rear tubing.



If drain cap exist, the drain hose can be exchanged.



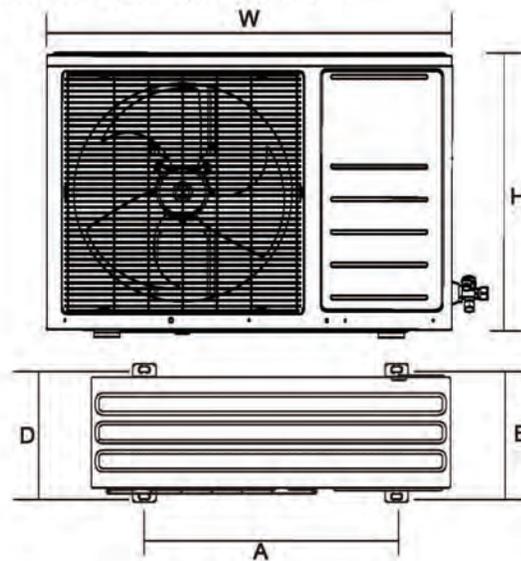
9K & 12K Installation - ACCESSORIES

No	Name (Qty)	No	Optional (Model Specific)
1	 Installation plate (1)	4	 Drain outlet (1)  Gasket (1)
2	 Anchor (5 or 8)  Screw A (5 or 8)	5	 Remote control holder (1)  Screw B (2)
3	 Remote control (1)  Battery (2)	6	 Air freshening filter (1) (to be installed in the air filter)

9K & 12K Installation - OUTDOOR MOUNTING DIMENSIONS

NOTE:

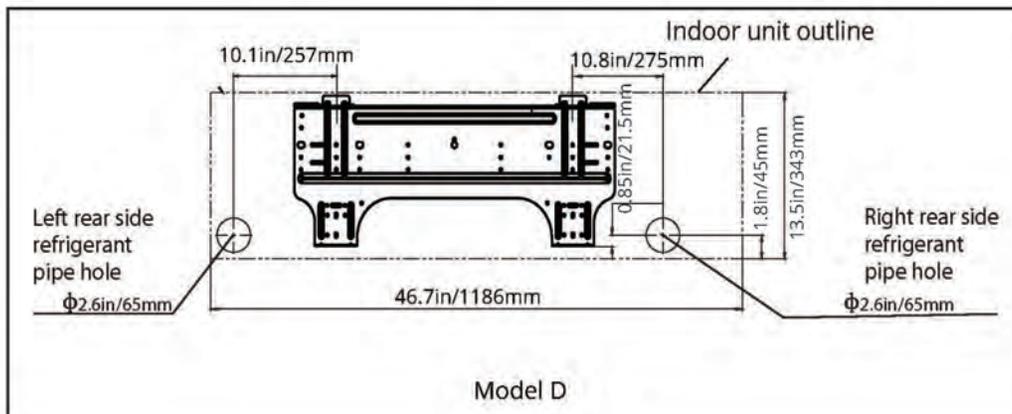
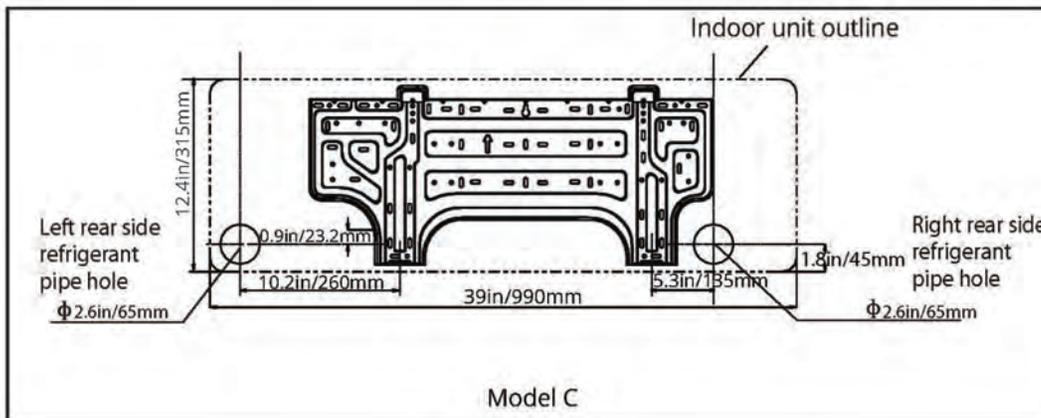
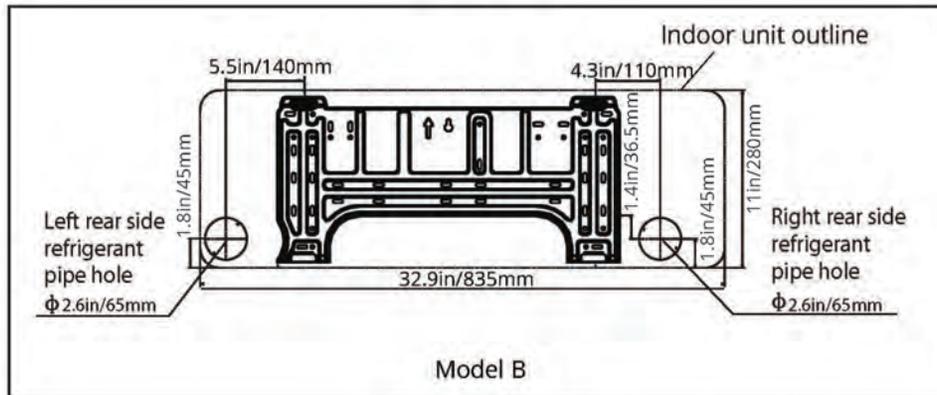
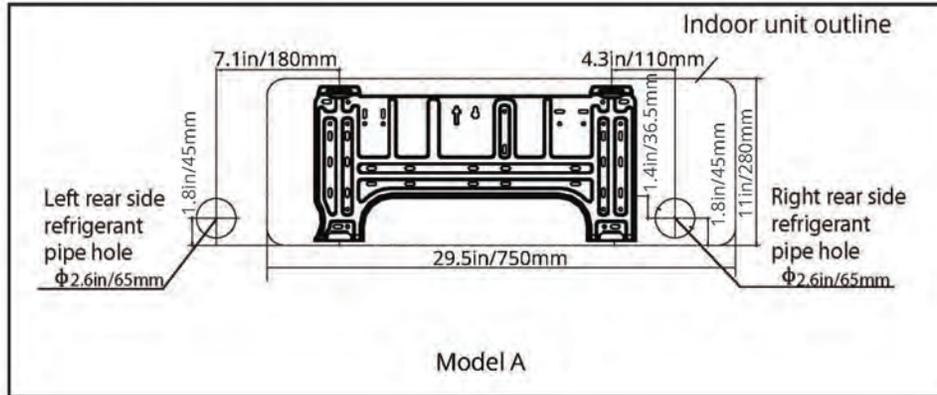
- The mounting dimensions may vary, depending on model.
- The fixing bolt head diameter should be more than 10mm.



Outdoor unit dimension in/mm (WxHxD)	Mounting dimensions	
	A(in/mm)	B(in/mm)
29.5x21.3x9.4 (700x540x240)	18 (458)	9.8 (250)
30.7x21.3x9.8 (780x540x250)	21.6 (549)	10.9 (276)
29.9x23.2x11.2 (760x590x285)	20.9 (530)	11.4 (290)
31.8x21.9x12.2 (810x558x310)	21.6 (549)	12.8 (325)
33.3x27.6x12.6 (845x700x320)	22.1 (560)	13.2 (335)
35.4x33.9x12.4 (900x860x315)	23.2 (590)	13.1 (333)
37.2x31.9x15.6 (945x810x395)	25.2 (640)	15.9 (405)

NOTE:

- The mounting plate will look like one of the diagrams below depending on unit size.
- The holes for fixing anchors should be 0.2in/5mm.



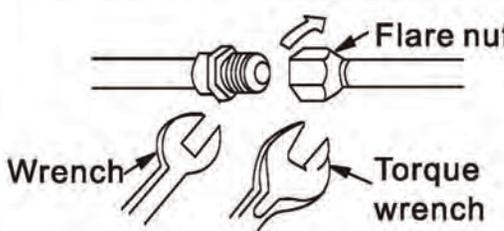
9K & 12K Installation - PIPING

Connective pipe length will affect the capacity and energy efficiency of the unit. The nominal efficiency is tested with a pipe length of 16.4 feet (5 meters).

	Minimum length to reduce abnormal vibration & noise	Charge less length	Additional charge per meter	
			Liquid side: ϕ 1/4in/6.35mm	Liquid side: ϕ 3/8in/9.52mm
R22	9.8ft(3m)	16.4ft(5m)	1.06oz (30g)	2.12oz (60g)
R410A*			0.53oz (15g) (For Inverters)	1.06oz (30g) (For Inverters)
			0.71 oz (20g)	1.41 oz (40g)

*Please use tools for R410A system.

Align the center to tighten the flare nut and finish connection using two wrenches. Tightening torque for flaring connection is as below.

	Outer diam.	Tightening torque (lbf.in/N.cm)	Additional tightening torque(lbf.in/N.cm)
	ϕ 1/4in (6.35mm)	132.8 (1500)	141.59 (1600)
	ϕ 3/8in (9.52mm)	221.34 (2500)	230.02 (2600)
	ϕ 1/2in (12.7mm)	309.73 (3500)	318.56 (3600)
	ϕ 5/8in (15.88mm)	398.23 (4500)	415.93 (4700)

9K & 12K Installation - WIRING

- A main switch and circuit breaker or fuse must be installed, the capacity should be above 1.5 times of the maximum current in the circuit.
- An individual branch circuit and single socket must be available for use solely for this appliance.
- The indoor power cord should be type H05VV-F or H05V2V2-F.
- The outdoor power cord and interconnecting cable should be type H07RN-F.
- Wire size depends on the rated current which is indicated on the nameplate.

Suggested Minimum Wire Size (AWG: American Wire Gage):

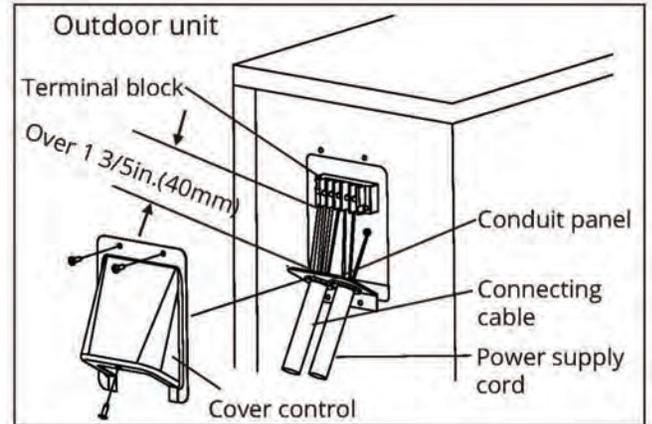
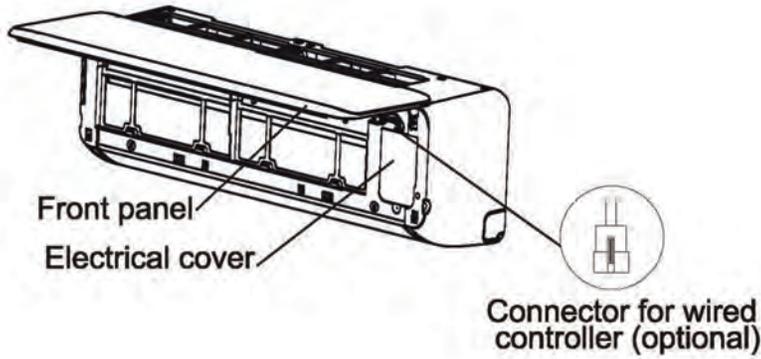
Appliance Amps	AWG Wire Size
10	18
13	16
18	14
25	12
30	10

Indoor Wire Connection

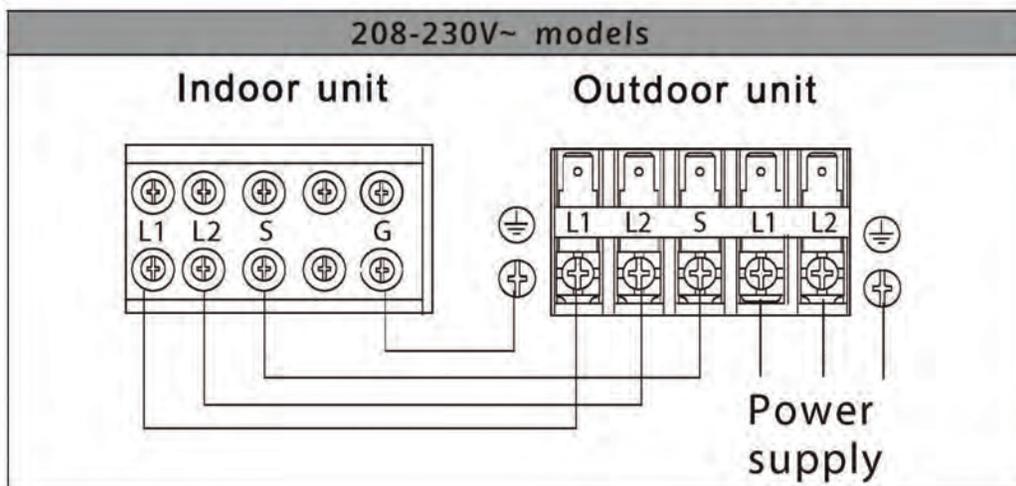
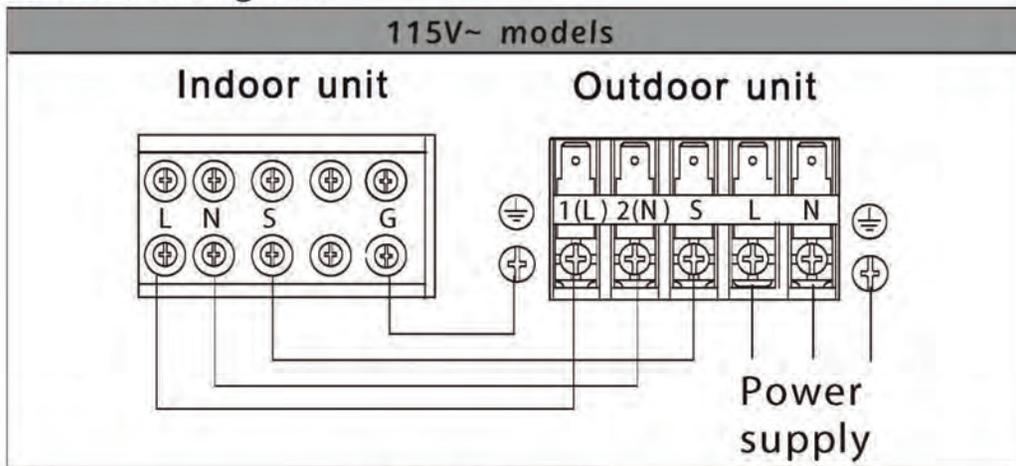
- 1) Lift the front panel of the indoor unit.
- 2) Remove the electrical cover and cord clamp, from the indoor unit, by loosening the screws.
- 3) Take the wires from the back of the indoor unit and connect them to the indoor terminal block.

Outdoor Wire Connection

- 1) Remove the electrical cover and cord clamp, from the outdoor unit, by loosening the screws.
- 2) Connect the wires to the outdoor terminal block in the same sequence as in the indoor unit.



Connection Diagrams



1 Drill Hole In The Wall

Drill a 65mm(2.6inch) hole on the wall which is slightly tilted towards the outside.

2 Install The Mounting Plate

Fix the mounting plate horizontally and level on the wall with five or more A-type screws.

3 Drainage

The drain line must not be kinked, must pitch downward, and must be insulated up to the outside wall.

4 Wrap The Pipe

For proper orientation of the refrigerant piping, electrical cable, and drain hose, refer to figure on the left:

- Place the drain hose below refrigerant piping.
- Ensure the drain hose is not obstructed.
- All lines must be insulated separately.

5 Hang The Indoor Unit

- 1) Run refrigerant lines through the hole in the wall.
- 2) Hang the indoor unit on the top hook of the mounting plate, then push the bottom of the indoor unit on the bottom hook.
- 3) Test the the unit for stability to ensure it is securely hooked to the plate.

6 Outdoor Unit Drainage

- 1) Connect the drain outlet with a drain hose.
- 2) Connect the gasket onto the drain outlet.
- 3) Insert the drain outlet into the base pan hole of outdoor unit, and rotate 90°.

7 Air Evacuation

Use a vacuum pump to evacuate air from the system until 76cmHg.

8 Leakage Check

Completely open the packed valve stem and check refrigerant lines for leaks before testing operation

9 Test Operation

- 1) Push the ON/OFF button on the remote control to begin testing.
NOTE: A protection feature prevents the unit from being activated for about 3 minutes.
- 2) Push the MODE button, select COOL, HEAT, and FAN modes to ensure all function work correctly.
- 3) When ambient temperature is lower than 62°F, the remote can not run the unit in cooling mode, manual operation is require to run cooling mode.
NOTE: Using manual operation
 - 1) Open the front panel of the indoor unit.
 - 2) Push the manual operation button once.

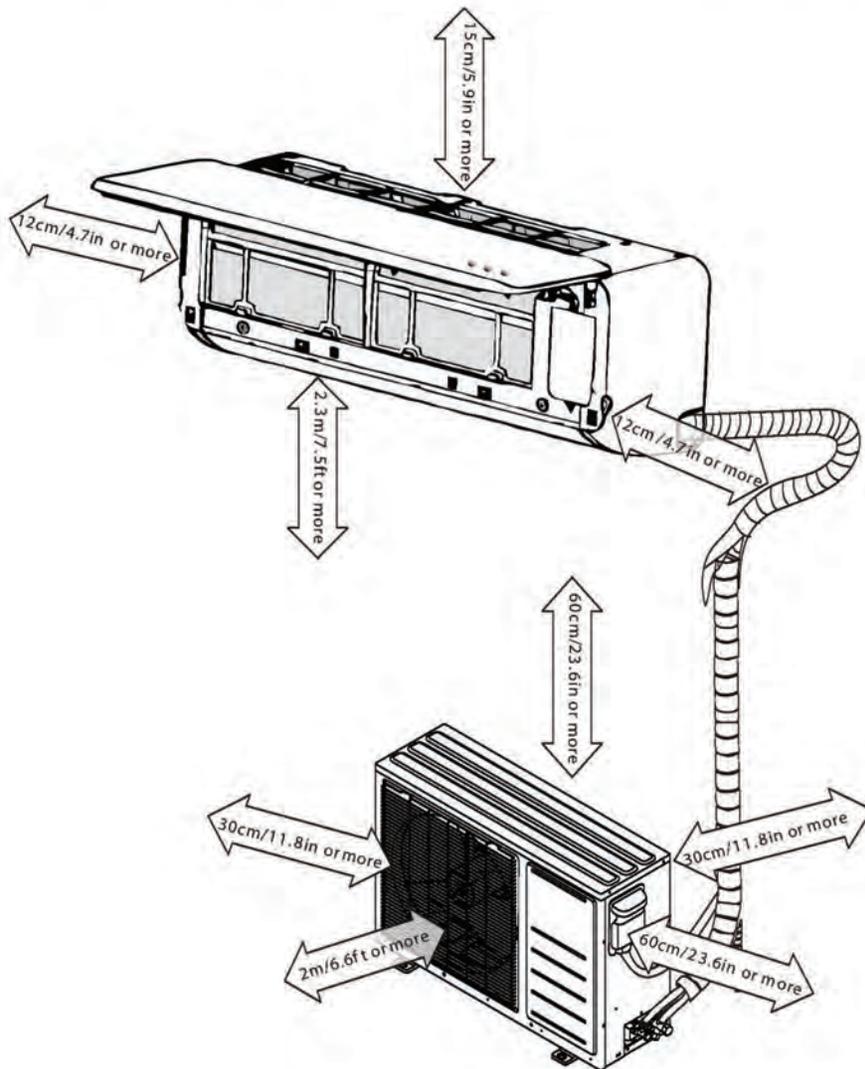
Indoor Unit

- Chosen location must be able to bear the weight of the unit.
- Chosen location must NOT be near a direct source of heat, such as direct sunlight or any heating appliance.
- Chosen location must provide appropriate clearances as shown in the figure below.

Outdoor Unit

- Chosen location should not be exposed to strong winds. If the unit is exposed to strong winds it is recommended that a wind baffle be used.
- Chosen location must be able to bear the weight of the unit and hold the unit level.
- Chosen location must provide appropriate clearances as shown in the figure below.

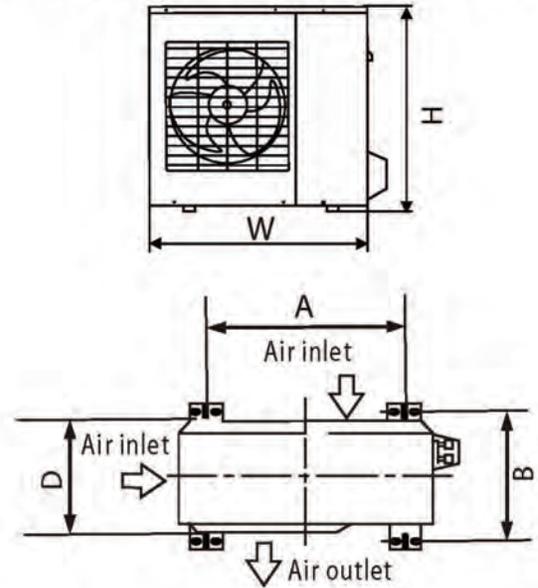
Do not install the indoor or outdoor units in a location with special environmental conditions.



Mounting the Outdoor Unit

Anchor the outdoor unit with a bolt and nut $\Phi 10$ or $\Phi 8$ tightly and horizontally on a condenser pad.
NOTE: The outdoor unit you purchase may be like one of the following. Install the outdoor unit according to the dimension as indicated in the table below:

Outdoor unit dimension mm (WxHxD)	Mounting dimensions	
	A(mm)	B(mm)
670x540x265	481	276
780x540x250	549	276
760x590x285	530	290
845x700x320	560	335
810x558x310	549	325
900x860x315	590	333



Accessories

Number	Name of Accessories		Qty	
1	Installation Plate		1	
2	Clip Anchor		5-8(depending on models)	
3	Self-tapping Screw A ST3.9x25		5-8(depending on models)	
4	Seal (For cooling & heating models only)		1	
5	Drain Joint (For cooling & heating models only)		1	
6	Connecting pipe Assembly	Liquid side	$\Phi 6.35$	Parts you must purchase. The pipe size differ from appliance to appliance. Consult the technician for the proper size.
			$\Phi 9.52$	
	Gas side	$\Phi 9.52$		
		$\Phi 12.7$		
7	Remote control		1	
8	Self-tapping Screw B ST2.9x10	optional parts	2	
9	Remote control holder		1	
10	Air freshening filter(used to install on Air filter)		1	

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

NOTE:

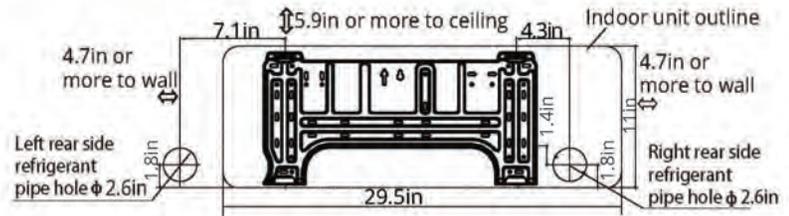
Ensure you mount the indoor unit on a wall that is sturdy enough to hold the weight and minimize vibration.

Mounting Indoor Unit

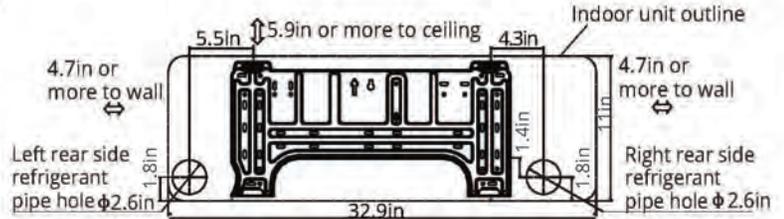
- 1) Fit the installation plate horizontally on structural parts of the wall with spaces around the installation plate.
- 2) If the wall is made of brick, concrete, etc., drill five or eight 0.2in (5mm) diameter holes in the wall. Insert clip anchor for appropriate mounting screws.
- 3) Fit the installation plate on the wall with five or eight type A screws.

NOTE:

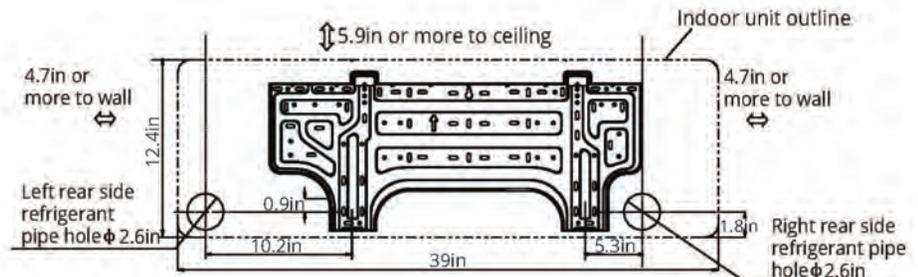
Mount the Installation Plate and drill holes in the wall according to the wall structure and corresponding mounting points on the installation plate. The installation plate provided will differ from appliance to appliance. (Dimensions are in inches unless otherwise stated.)



Model A

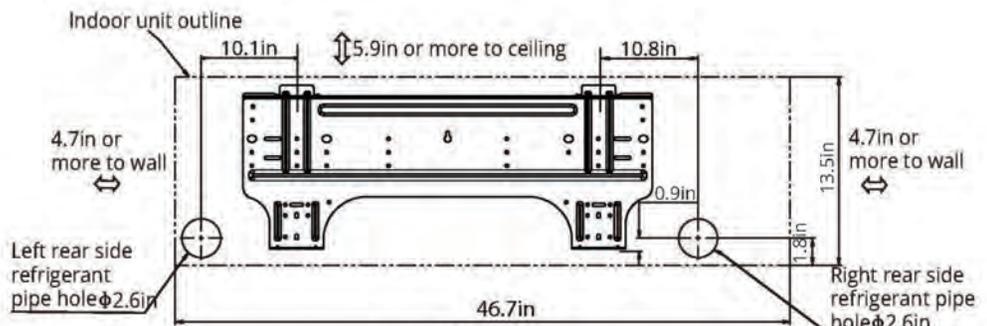
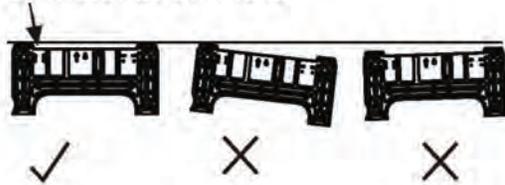


Model B



Model C

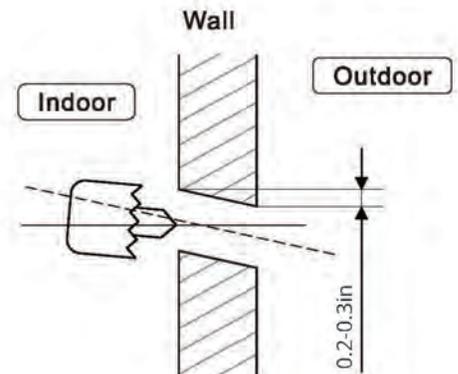
Correct orientation of Installation Plate



Model D

Drill a Hole in the Wall

- 1) Determine hole positions according to left and right side of the installation plate. The hole center is obtained by measuring the distance as shown in the diagram above.
- 2) Drill the piping plate hole with 2.6in (65mm) hole-core drill.
- 3) Drill the piping hole at either the right or the left and the hole should be slightly slanted to the outdoor side.
- 4) Always take steps to protect the pipe when drilling metal grid, metal plate, etc.



Indoor Electrical Connections

Electric safety regulations for the initial Installation

1. If the power supply is damaged or malfunctioning, the technician should refuse to install the unit and explain the issue to the customer.
2. Power voltage should be in the range of 90%~110% of rated voltage.
3. A surge protector and main power switch, with 1.5 times capacity of Max. Current of the unit, should be installed in power circuit. Ensure the air conditioner is grounded properly.
4. The appliance must be installed in accordance with national wiring regulations. Do not operate your air conditioner in a wet room such as a bathroom or laundry room.
5. In accordance with applicable wiring rules, an all-pole disconnection device must be incorporated in the fixed wiring and should have at least 0.12in (3mm) clearances in all poles, have a leakage current that may exceed 10mA, and the residual current device (RCD) having a rated residual operating current not exceeding 30mA.
6. For units with an auxiliary electric heater, keep at least 3 1/2 feet away from any combustibles.
7. Follow the attached Electrical Connection Diagram located on the panel of the indoor and outdoor unit to connect the wiring.
8. All wiring must comply with local and national electrical codes, and be installed by qualified and skilled electricians.
9. 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:

Suggested Minimum Wire Size (AWG: American Wire Gauge):

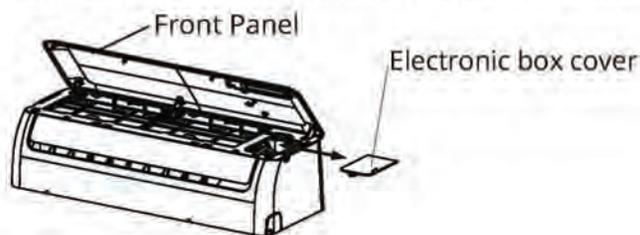
Appliance Amps	AWG Wire Size
10	18
13	16
18	14
25	12
30	10
40	8

NOTE:

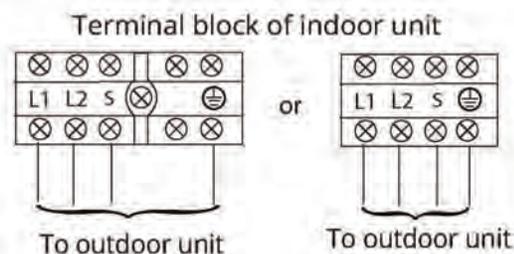
- The wire size of power supply cord and interconnected wire and the current of the fuse or switch are determined by the maximum current indicated on the nameplate which located on the side panel of the unit. Please refer to the nameplate before selecting the wire size, fuse or switch.
- The controller of the air conditioner is designed with a fuse protection function under abnormal conditions, the specifications of the fuse are printed on the circuit board, such as: T3.15A/250VAC, T5A/250VAC, etc.

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) The indoor power cord type is H05VV-F or H05V2V2-F, the outdoor power cord and interconnected cord type is H07RN-F.
- 3) Lift the indoor unit panel up, remove the electrical box cover by loosening the screw.
- 4) Ensure the color 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.

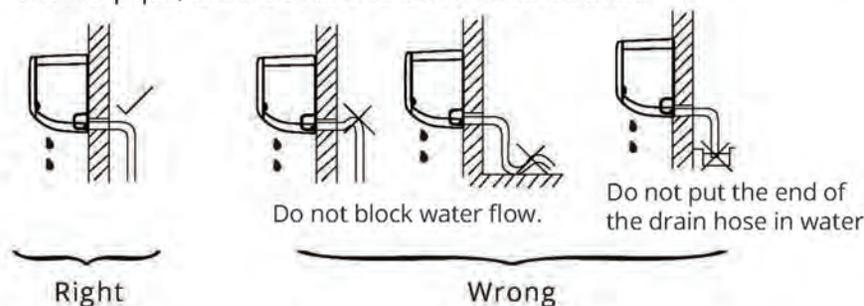


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Drainage

- 1) Run the drain hose sloping downward. Do not install the drain hose as illustrated in wrong figures.
- 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 Installation

- 1) For the left-hand and right-hand piping, remove the pipe cover from the side panel.
- 2) For the right back and left back piping, install the piping as shown.

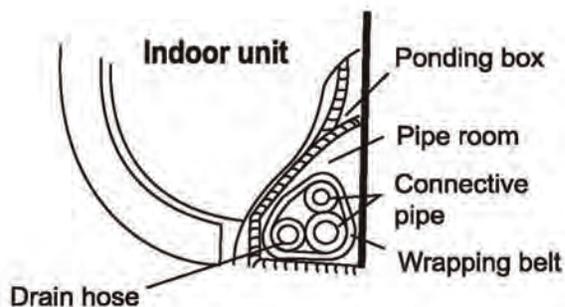
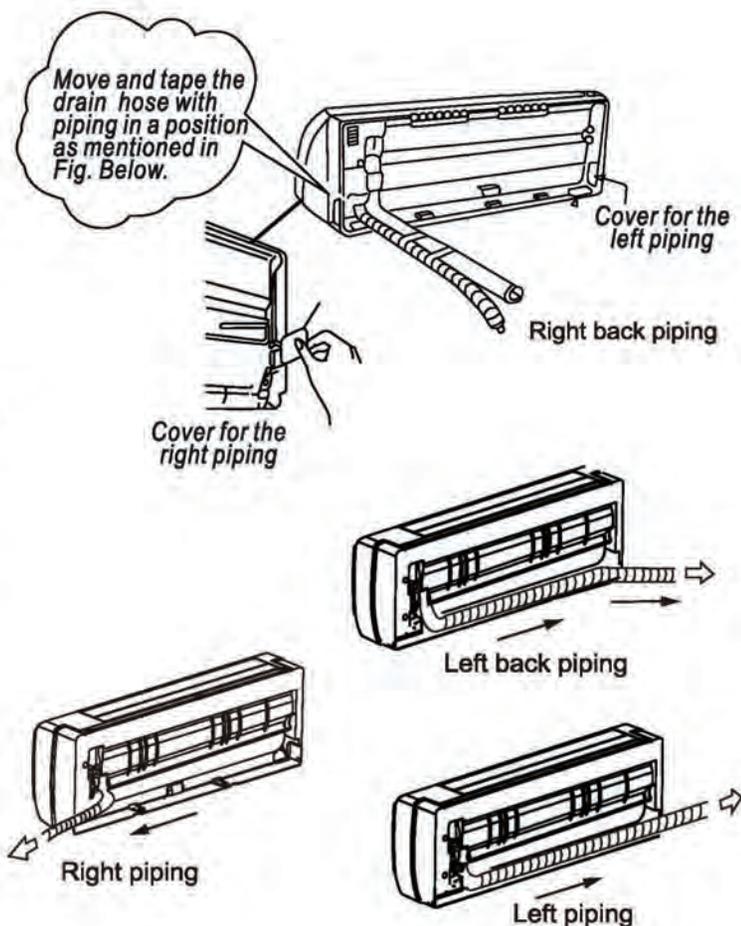
NOTE: For 9K/12K models, there is only one side drainage structure design. For 18k model, one side drainage structure is standard. Both sides drainage structure is optional and can only be customized from factory. For both sides drainage structure, it can be chosen for right, left or both sides drainage connection. If choosing both sides drainage connection, another proper drain hose is needed as there is only one drain hose offered by factory. If choosing one side drainage connection, make sure the drain hole on the other side is well plugged. The connection of the drain hose is supposed to be done by qualified installer to avoid water leakage.

- 3) Bundle the tubing, connecting cable, and drain hose with tape securely, evenly as shown in Figure on the right.

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

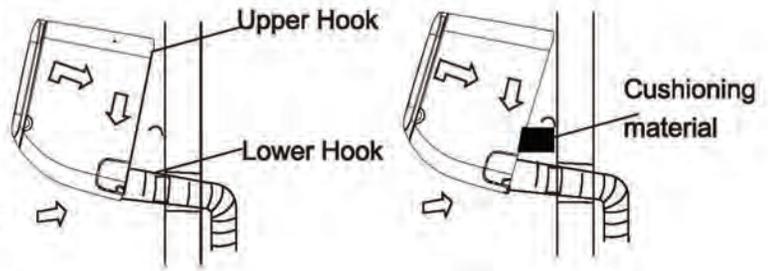
CAUTION:

- 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 insulation should be used on the extension drain hose of the indoor unit.
- Be sure that the drain hose is located at the lowest side of the bundle. Locating at the upper side can cause the drain pan to overflow inside the unit.
- Never intercross nor intertwist the power wire with any other wiring.



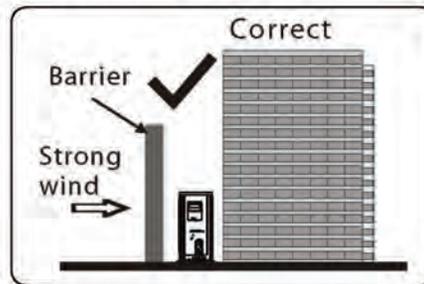
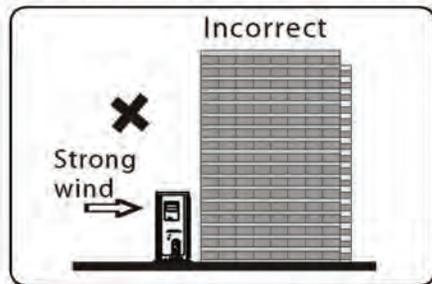
Indoor Unit Installation

- 1) Pass the piping through the hole in the wall.
- 2) Hook the indoor unit onto the upper portion of installation plate (Engage the indoor unit with the upper edge of the installation plate). Ensure the hooks are properly seated on the installation plate by moving it in left and right.
- 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) Press the lower left and right side of the unit against the installation plate until hooks engages with their slots.



18K & 24K Installation - OUTDOOR INSTALLATION

- Install the outdoor unit on a rigid base to prevent increasing noise levels 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 is operating properly by putting the unit lengthwise along the wall or using a dust or shield plates.
- Specially in windy areas, install the unit to prevent the admission of wind. If suspended installation is needed, the installation bracket should coincide with technique requirement in the installation bracket diagram. The installation wall should be solid brick, concrete or of similar construction, or actions to reinforce should be taken.
- The connection between bracket and wall, bracket and the unit should be firm, stable and reliable.
- Be sure there is no obstacle which block radiating air.

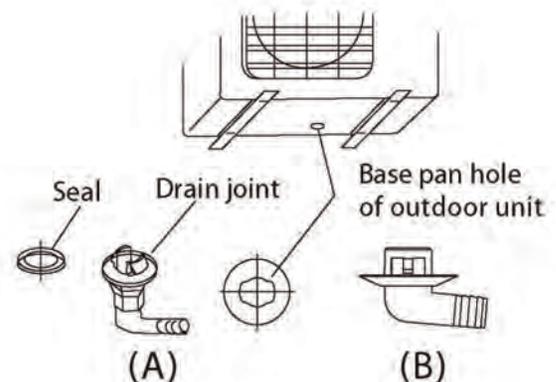


Drain Joint Installation

NOTE: The drain joint is slightly different according to the different outdoor unit.

For the drain joint with the seal (Fig.A), first fit the seal onto the drain joint, then insert the drain joint into the base pan hole of outdoor unit, rotate 90° to securely assemble them.

To install drain joint as shown in Fig.B, insert the drain joint into the base pan hole of outdoor unit until it remains fixed with a clicking sound. 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.



Connecting Refrigerant Piping

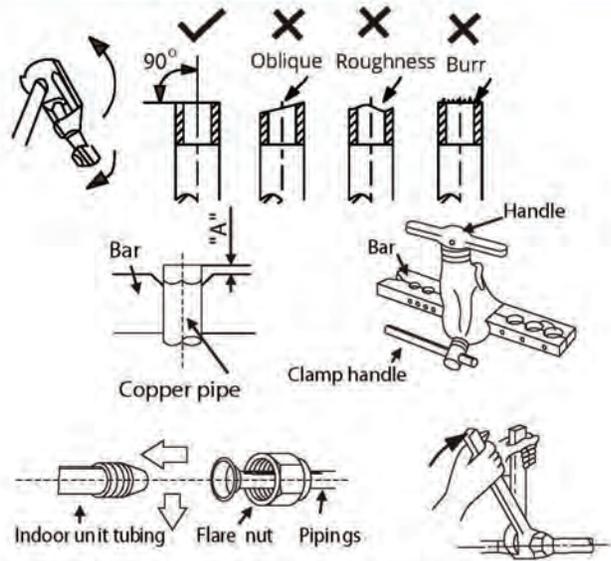
Flaring

- 1) Cut a pipe with a pipe cutter.
- 2) Put flare nuts on pipe/tube having completed burr removal and flare the pipe.
- 3) Firmly hold copper pipe in a die in the dimension shown in the table below.

Outer diam. (mm)	A(mm)	
	Max.	Min.
Φ 6.35	1.3	0.7
Φ 9.52	1.6	1.0
Φ 12.7	1.8	1.0
Φ 16	2.2	2.0

Tightening Connections

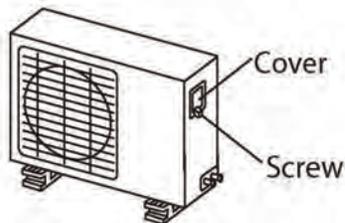
- Align pipes to be connected.
- Sufficiently tighten the flare nut with fingers, and then tighten it with a spanner and torque wrench as shown.
- Excessive torque can break nut depending on installation conditions.



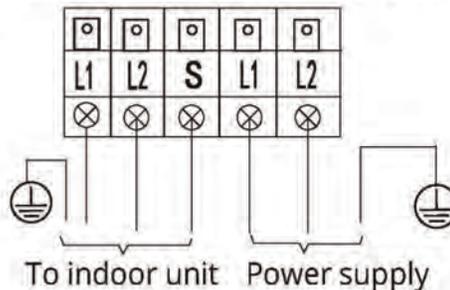
Outer diam.	Tightening torque(N.cm)	Additional tightening torque(N.cm)
Φ 6.35mm	1500 (153kgf.cm)	1600 (163kgf.cm)
Φ 9.52mm	2500 (255kgf.cm)	2600 (265kgf.cm)
Φ 12.7mm	3500 (357kgf.cm)	3600 (367kgf.cm)
Φ 16mm	4500 (459kgf.cm)	4700 (479kgf.cm)

Outdoor Electrical Connections

- 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.



Terminal block of outdoor unit



NOTE: Connective pipe length will affect the capacity and energy efficiency of the unit. The nominal efficiency is tested basing on the pipe length of 24.6 feet.

Air Purging

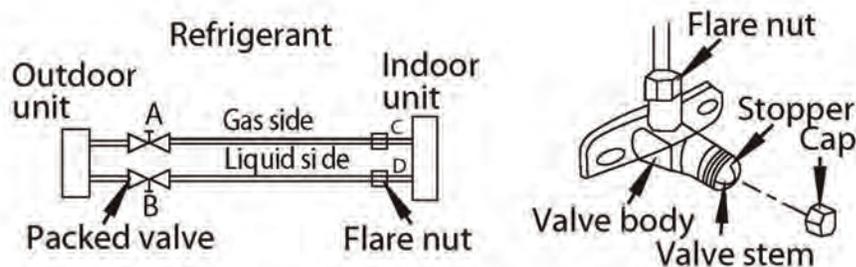
- The indoor unit and tubing between the indoor and outdoor unit must be leak tested and evacuated to remove any noncondensables and moisture from the system.
- Check that each tube (both liquid and gas side tubes) between the indoor and outdoor units have been properly connected and all wiring for the test run has been completed.
- Pipe length and refrigerant amount:

Connective pipe length	Air purging method	Additional amount of refrigerant to be charged	
Less than 7.5m	Use vacuum pump	_____	
More than 7.5m	Use vacuum pump	Liquid side: ϕ 6.35mm R22: (Pipe length-7.5)x30g/m R410A: (Pipe length-7.5)x15g/m	Liquid side: ϕ 9.52mm: R22: (Pipe length-7.5)x60g/m R410A: (Pipe length-7.5)x30g/m

- For the R410A refrigerant model, make sure the refrigerant added into the unit is in liquid form.
- When relocating the unit, use a vacuum pump to perform evacuation.

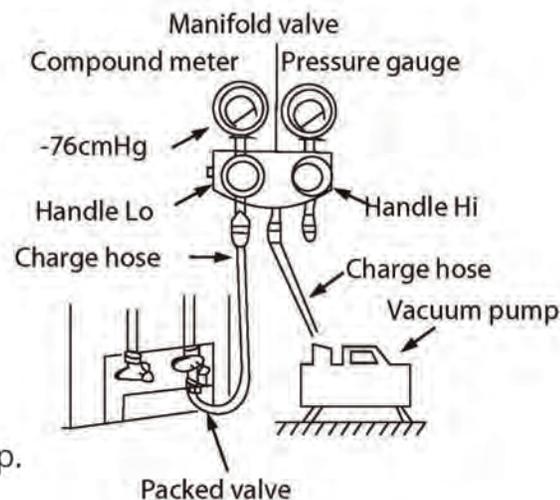
CAUTION

- Open the valve stem until it hits against the stopper. Do not try to open it further.
- Securely tighten the valve stem cap with a spanner wrench.
- Valve stem cap tightening torque. See Tightening torque table.



Using the Vacuum Pump

- 1) Completely tighten the flare nuts, A, B, C, D, connect the manifold valve charge hose to a charge port of the packed 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 packed 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 -76cmHg(-1.0x10⁵Pa).
- 6) Turn the stem of the packed valve B about 45° counterclockwise for 6~7 seconds after the gas leaves, then tighten the flare nut again. Make sure the pressure display in the pressure indicator is a little higher than the atmosphere pressure.
- 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.



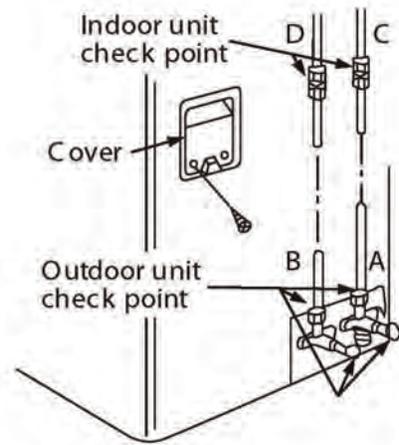
Leak Check

1) Soapy water method:

Apply a soap water or a liquid neutral detergent on the indoor unit connections and outdoor unit connections by a soft brush to check for leakage of the connecting points of the piping. If bubbles come out, it indicates that the pipes have leakage.

2) Leak detector method:

Use the leak detector to check for leakage.



CAUTION

A: Lo packed valve

B: Hi packed valve

C and D are ends of indoor unit connection.

Test Run

Perform test operation after completing gas leak check at the flare nut connections and electrical safety check.

- Check that all tubing and wiring have been properly connected.

- Check that the gas and liquid side service valves are fully open.

1) Connect the power, press the ON/OFF button on the remote controller to turn the unit on.

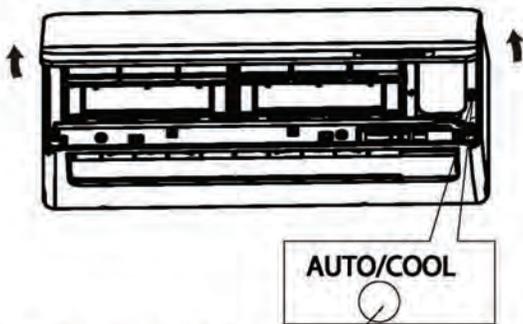
2) Use the MODE button to select COOL, HEAT, AUTO and FAN to check if all the functions works well.

3) When the ambient temperature is too low(lower than 62°F/17°C), the unit cannot be controlled by the remote control to run at cooling mode, manual operation can be taken. Manual operation is used only when the remote control is disable or maintenance necessary.

- Hold the panel sides and lift the panel up to an angle until it remains fixed with a clicking sound.

- Press the Manual control button to select the AUTO or COOL, the unit will operate under Forced AUTO or COOL mode (see User Manual for details).

4) The test operation should last about 30 minutes.



Manual control button



Oasis Hyper Heat Series

The design and specifications are subject to change without prior notice. Consult with the sales agency or manufacturer for details.