

- All the pictures in the instructions are for explanation purposes only. The actual shape should prevail.
- The design and specifications are subject to change without prior notice for product improvement. Consult with the sales agency or manufacturer for 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. ⚠

This symbol indicates the possibility of injury or damage to property. ⚠ CAUTION

WARNING

1) Install according to this installation instructions strictly. If installation is defective, it will cause water leakage, electrical shock, or fire

- 2) Use the included accessories parts and specified parts for installation. otherwise, it will cause the set to fall, water leakage, electrical shock, or fire.
- 3) 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.
- 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 perfect, 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 perfectly, it will overheat at connection point of terminal, fire or electrical shock. 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.
- 8) 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 grounded and installed with ground 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

SELECT THE BEST LOCATION

Indoor unit

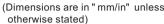
- There should not be any heat source or stream
- near the unit.
- There should not be any obstacles blocking the air circulation.
- A place where air circulation in the room is good.
- A place where drainage can be easily done.
- A place where noise prevention is taken into
- consideration.
- Do not install the unit near the door way.
- Ensure the spaces indicated by arrows from the wall,ceiling,fence or other obstacles.
- There should not be any direct sunlight. If unavoidable, sunlight prevention should be taken into consideration.
- Outdoor unit
- If an awning is built over the unit to prevent direct sunsight or rain, be careful that heat
- radiation from the condenser is not obstructed. There should not be any animal or plant which
- could be affected by hot air discharged. Keep the spaces indicated by arrow from wall ceiling, fence or other obstacles.
- Do not place any obstacles which may cause a short circuit of the discharged air.

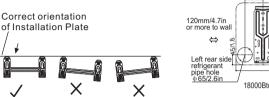
Settlement of outdoor unit

Anchor the outdoor unit with a bolt and nut Φ 10 or φ 8 tightly and horizontally on a concrete or rigid mount. 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:				
Outdoorunitdimension	Mountingdimensions			
mm/in(WxHxD)	A(mm/in)	B(mm/in)		
700x540x240/29.5x21.3x9.4	458/18	250/9.8		
685x430x260/27x16.9x10.2	460/18.1	276/10.9		
780x540x250/30.7x21.3x9.8	549/21.6	276/10.9		
760x590x285/29.9x23.2x11.2	530/20.9	290/11.4		
845x700x320/33.3x27.6x12.6	560/22.1	335/13.2		
775x545x310/30.5x21.5x12.2	600/23.6	320/12.6		
670x540x265/26.4x21.3x10.4	481/18.9	276/10.9		

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 with the machine differ from appliance to appliance.





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. Dirll the piping plate hole with ϕ 65mm/2.6in 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 meta grid, metal plate or the like.

CONNECT THE CABLE TO THE INDOOR UNIT

Electricalwork

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- 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 surge protector and main power switch with a 1.5 times capacity of Max. Current of the unit should be installed in power circuit. Ensure the air conditioner is grounded well.
- 4. The appliance shall 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. An all-pole disconnection device which has at least 3mm clearances in all poles, and have a leakage current that may exceed 10mA, the residual current device(RCD) having a rated residual operating current not exceeding 30mA, and disconnection must be incorporated in the fixed wiring in accordance with the wiring rules.
- 6. For the unit adopts auxiliary electric heater, keep at least 1 meter away from the nearest combustible materials.
- 7. According to the attached Electrical Connection Diagram located on the panel of the indoor & outdoor unit to connect the wire
- 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.

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

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

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

Indoor unit outline

⇔

Indoor unit outline

⇔

Indoor unit outline

⇔

120mm/4.7in or more to wa

Left rear side

pipe hole ∲ 65/2.6ir

120mm/4.7in

r more to wa

Left rear side

designed with a fuse protection function under abnormal conditions, the specifications of the fuse have printed on the circuit board, such as: 3.15A/250VAC, T5A/250VAC, etc

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. Lift the indoor unit panel up, remove the electrical box cover by loosening the screw.

150mm/5.9in or more to ceiling 18000Btu/h models(A:905/35.6, B:275/10.8, C:80/3.2, D:100/3.9)

А

12000Btu/h models(A:770/30.3, B:255/255, C:170/6.7, D:95/3.7)

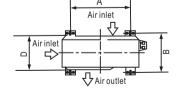
Wall

Outdoor

⇔

Left rear side

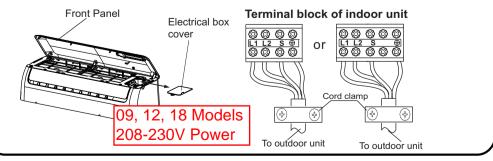
pipe hole ϕ 65/2.6in



ACCESSORIES

Number	NameofAccessories				Qty	
1	Installation Plate			1		
2	Clip Anchor			5-8(dependingonmodels)		
3	Self-tapping Screw A ST3.9x25				5-8(dependingonmodels)	
4	Seal(For cooling & heating models only)				1	
5	Drain Joint(int(For cooling & heating models only)			1	
6	Connecting pipe Assembly	Liquidside		.35(1/4in) .52(3/8in)	Parts you must purchase. The pipe size differ from appliance to applian	
		Gasside	Φ9.52(3/8in) Φ12.7(1/2in)		Consult the technician for the proper	
			Φ16(5/8in)			
7	Remote controller			1		
8	Self-tapping	tapping Screw B ST2.9x10		optional	2	
9	Remote controller holder parts		1			
10	Air freshening filter(used to install on air filter)			1		
	cept the abo rchase.	ve parts provide	ed,th	ne other parts ne	eded during installation you must	

- 3. Ensure the colour of wires of outdoor unit and the terminal Nos. are the same to the indoor's respectively.
- 4. 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.



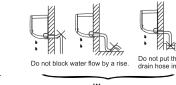


CONNECTIVE PIPE AND DRAINAGE INSTALLATION

Right

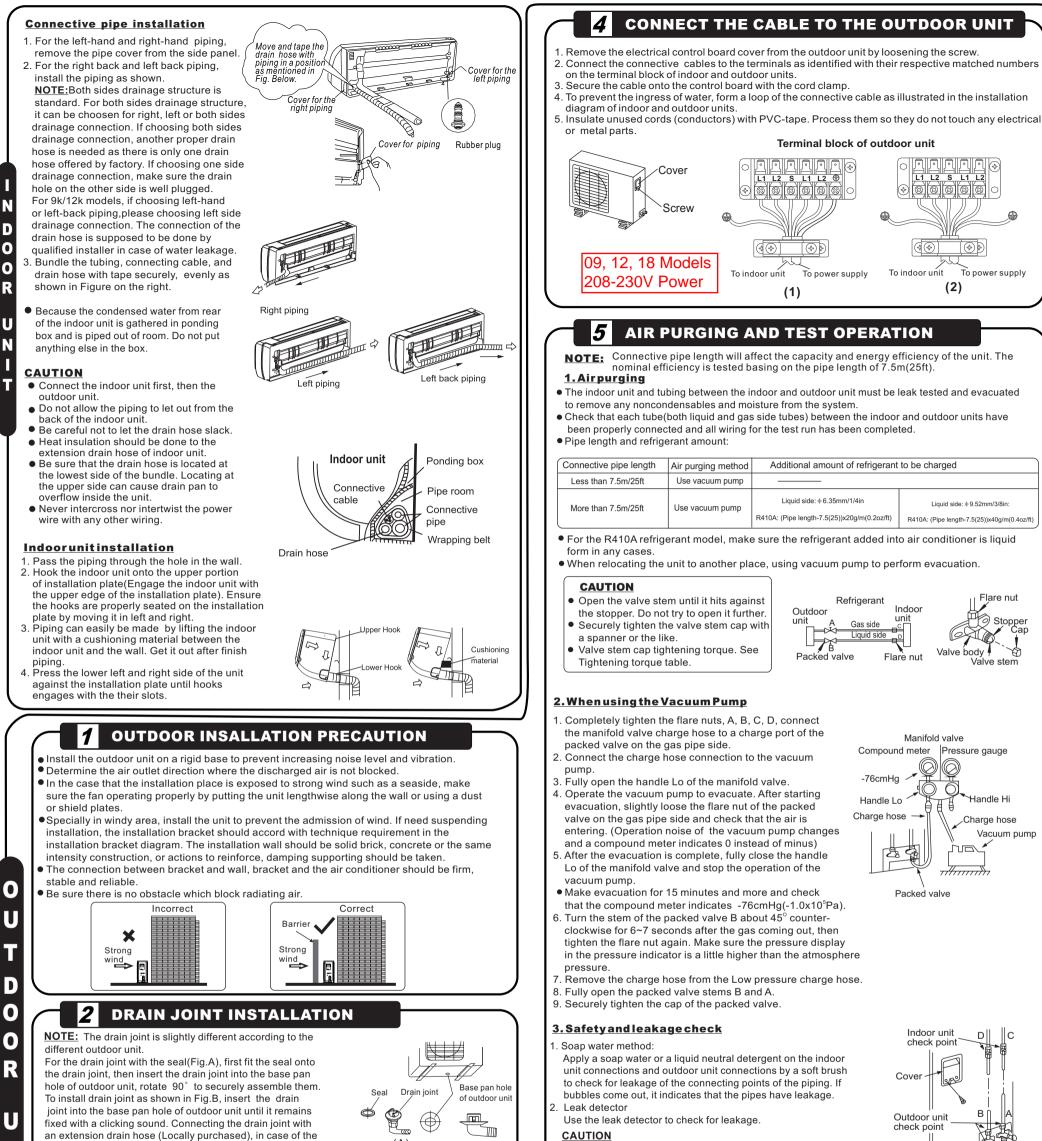
Drainage

- 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.



Do not put the end of drain hose into water

Wrong



IIII CAUTION (B)

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

REFRIGERANT PIPE CONNECTION

<u>Flaring</u>

- 1. Cut a pipe with a pipe cutter. 2. Put flare nuts on pipe/tube having
- completed burr removal and flare the pipe.

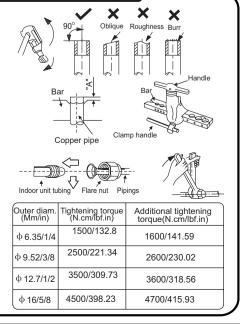
water draining off the outdoor unit during the heating mode

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

Outer diam.	A(mm/in)		
(Mm/in)	Max.	Min.	
ф 6.35/1/4	1.3/0.05	0.7/0.03	
ф9.52/3/8	1.6/0.06	1.0/0.04	
ф12.7/1/2	1.8/0.07	1.0/0.04	
ф16/5/8	2.2/0.09	2.0/0.08	

Tightening connection

- Alian 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.



4. Test running

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 17°C/62°F), the unit cannot be controlled by the remote controller to run at cooling mode, manual operation can be taken. Manual operation is used only when the remote controller 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.

