



LG

Life's Good

ENGLISH

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DEUTSCH

INSTALLATION MANUAL AIR CONDITIONER

- Please read this installation manual completely before installing the product.
- Installation work must be performed in accordance with the national wiring standards by authorized personnel only.
- Please retain this installation manual for future reference after reading it thoroughly.



P/NO : 3828A22235A

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Installation Requirements

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Required Tools

- Level gauge
- Screw driver
- Electric drill
- Hole core drill (ø50mm)
- Horizontal meter

- Flaring tool set
- Specified torque wrenches
1.8kg.m, 4.2kg.m, 5.5kg.m, 6.6kg.m
(different depending on model No.)
- SpannerHalf union

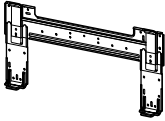


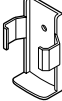
- A glass of water
- Screw driver

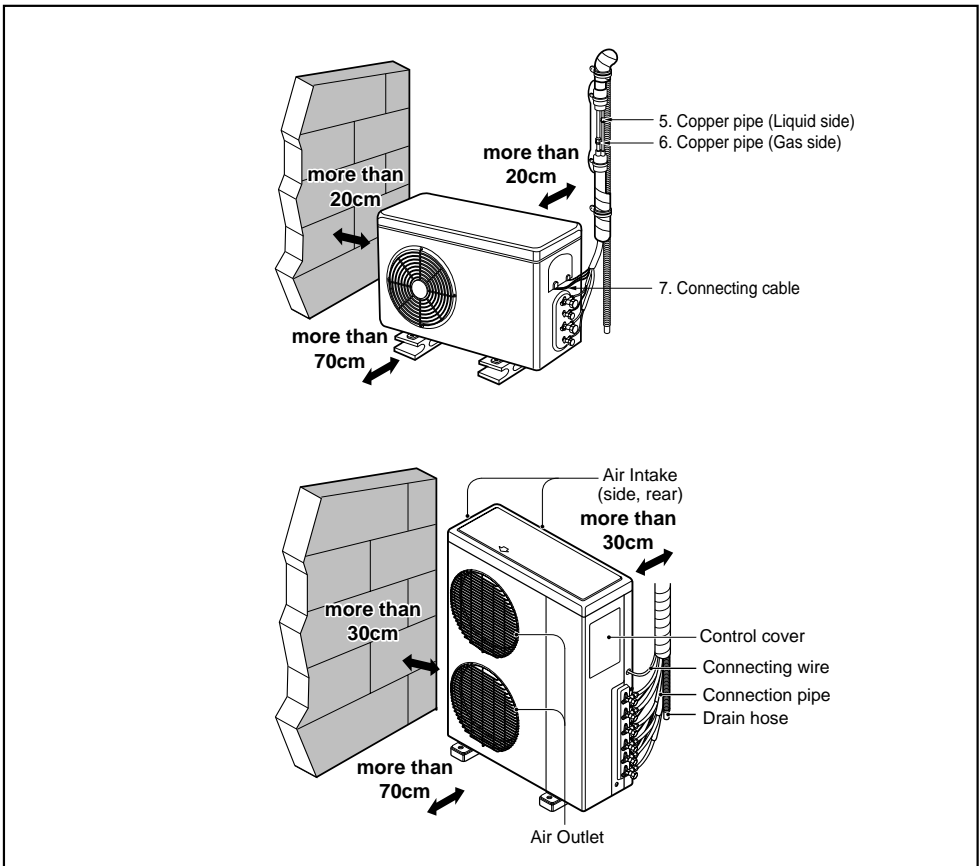
- Hexagonal wrench(4mm)
- Gas-leak detector
- Vacuum pump
- Gauge manifold

- Owner's manual
- Thermometer
- Holder Remote Control

Installation Parts Provided

Standard Type

<p>Installation plate</p>	<p>Type "A" screws and plastic anchors</p>
	
<p>Type "B" screws</p>	<p>Holder Remote Control</p>
	



Safety Precautions



To prevent injury to the user or other people and property damage, the following instructions must be followed.

■ Incorrect operation due to ignoring instruction will cause harm or damage. The seriousness is classified by the following indications.

⚠ WARNING This symbol indicates the possibility of death or serious injury.

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

■ Meanings of symbols used in this manual are as shown below.

	Be sure not to do.
	Be sure to follow the instruction.

⚠ WARNING

Do not disassemble or repair the product.

- Contact your dealer or service center.

Always earth the product.

- It will cause fire or electric shock.

Do not handle the flammable gas or explosive materials near the product.

- Otherwise, it may cause fire or failure of product.

Do not install where flammable gas could leak.

- Otherwise, it may cause explosion or fire.

Do not install the product on a defected installation stand.

- Otherwise, It may cause injury or accident.

Be cautious when unpack and install the product.

- Sharp edges could cause injury.

For installation, always contact the dealer or service center.

- Otherwise, it may cause fire, electric shock, explosion or injury."

Do not install the product on a defected installation stand.

- Otherwise, It may cause injury or accident

For electric work, contact the dealer or service center.

- Otherwise, It will cause fire or electric shock.

Do not use damaged power cable.

- It will cause fire or electric shock.

Always install an circuit breaker and main breaker.

- No installation may cause fire and electric shock.

If strange sound, smell or smoke come from product, turn the breaker off or disconnect the power supply cable.

- Otherwise, it may cause electric shock or fire.

Cover the electric part.

- Otherwise, it may cause fire or electric shock.

Do not open the suction inlet of the product during operation.

- Otherwise, it may cause electric shock or failure.

Do not step or put anything on the product.

- Otherwise, it may cause personal injury and failure of product.

Do not touch(operate) product with wet hands.

- Otherwise, it may cause fire or electric shock.

Do not put the heater, etc. near the power cable.

- Otherwise, it may cause fire and electric shock.

Do not turn the breaker on/off or connect/disconnect the power supply plug during operation.

- Otherwise, it may cause fire or electric shock.

Do not touch the metal parts of the product when removing the air filter.

- Otherwise, it may cause personal injury.

Use a vacuum pump or Inert (nitrogen) gas when doing leakage test or air purge. Do not compress air or Oxygen and Do not use Flammable gases. Otherwise, it may cause fire or explosion.

- There is the risk of death, injury, fire or explosion.

 CAUTION**Always inspect gas leakage after installation and repair of product.**

- Otherwise, it may cause failure of product.

Install the drain hose to ensure that drain can be securely done.

- Otherwise, it may cause water leakage.

Keep the level even in installing the product.

- Otherwise, it may cause vibration or water leakage.

Do not install the product where the noise or hot wind from the outdoor unit could give any casualty to the neighborhood

- Otherwise, it may cause dispute with the neighborhoods.

Installation of Indoor, Outdoor Unit

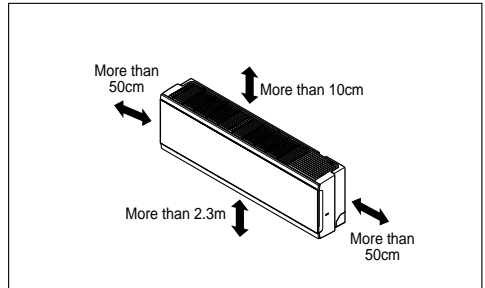
Read completely, then follow step by step.

Select the best location

Indoor unit

1. Do not have any heat or steam near the unit.
2. Select a place where there are no obstacles in front of the unit.
3. Make sure that condensation drainage can be conveniently routed away.
4. Do not install near a doorway.
5. Ensure the spaces indicated by arrows from the wall, ceiling, fence or other obstacles.
6. Use a stud finder to locate studs to prevent unnecessary damage to the wall.

CAUTION: Install the indoor unit on the wall where the height from the floors more than 2.3 meters.

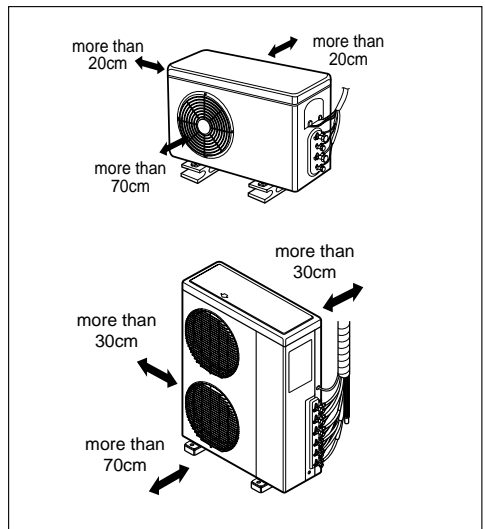


Outdoor unit

1. If an awning is built over the unit to prevent direct sunlight or rain exposure, make sure that heat radiation from the condenser is not restricted.
2. Ensure that the spaces indicated by arrows around front, back and side of the unit.
3. Do not place animals and plants in the path of the warm air.
4. Take the air conditioner weight into account and select a place where noise and vibration are minimum.
5. Select a place so that the warm air and noise from the air conditioner do not disturb neighbors.

Rooftop Installations:

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.



Piping length and elevation

Multi Piping Type

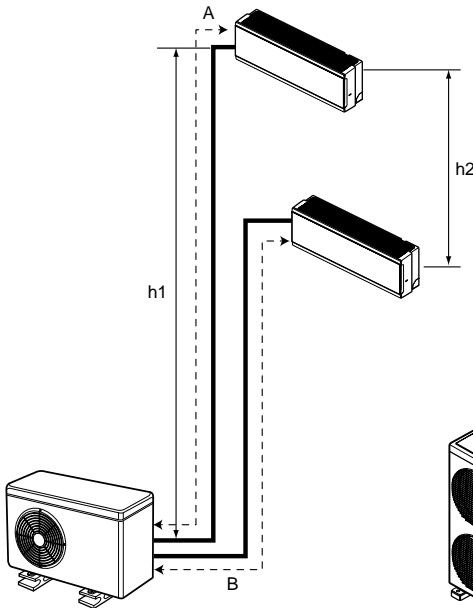
(m)

Capacity(Btu/h)	Total Length	Max Length(A/B)	Max Elevation (h1)	In - In Elevation (h2)
14k/16k	30	20	15	7.5
18k	40	25	15	7.5
24k	50	25	15	7.5
30k	70	25	15	7.5

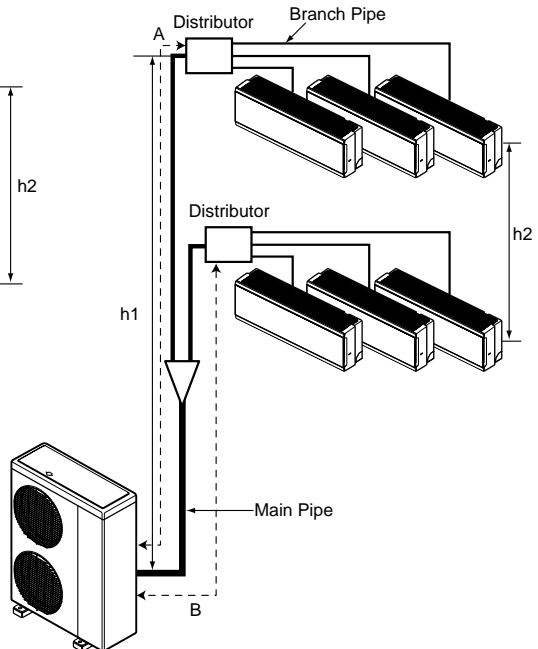
Distributor Type

(m)

Capacity (Btu/h)	Total Length	Max Main Pipe Length (A/B)	Total Branch Pipe Length	Max Branch Pipe Length	Max Elevation (h1)	In - In Elevation (h2)
40k	100	50	50	15	30	10
48k	110	50	60	15	30	10
56k	120	50	70	15	30	10



Multi Piping Type



Distributor Type



CAUTION: Capacity is based on standard length and maximum allowance length is on the basis of reliability. Oil trap should be installed every 5~7 meters.

How to fix installation plate

The wall you select should be strong and solid enough to prevent vibration

1. Mount the installation plate on the wall with type "A" screws. If mounting the unit on a concrete wall, use anchor bolts.

- Mount the installation plate horizontally by aligning the centerline using a level.

2. Measure the wall and mark the centerline. It is also important to use caution concerning the location of the installation plate—routing of the wiring to power outlets is through the walls typically. Drilling the hole through the wall for piping connections must be done safely.

Type 1.

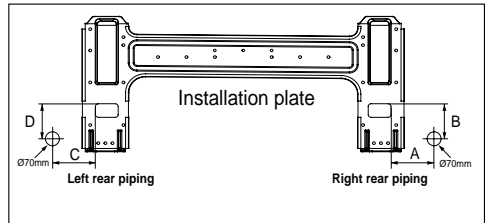
CHASSIS (Grade)	Distance (mm)			
	A	B	C	D
S4	73	55	82	55
S5	121	62	258	62

Type 2.

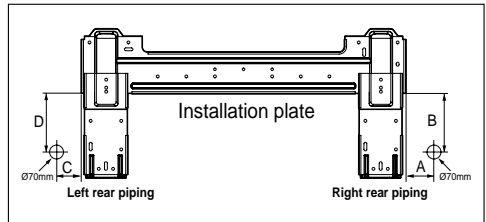
CHASSIS (Grade)	Distance (mm)			
	A	B	C	D
S4	50	105	59	105
SE	65	110	85	110
S5	95	122	235	122



Type 1.

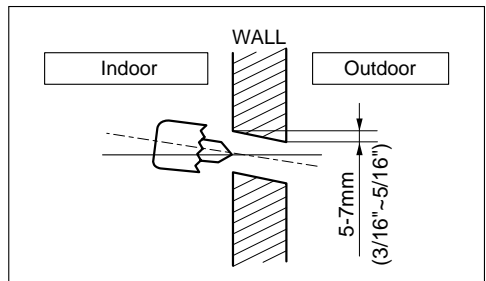


Type 2.



Drill a Hole in the Wall

- Drill the piping hole with a $\varnothing 70\text{mm}$ hole core drill. Drill the piping hole at either the right or the left with the hole slightly slanted to the outdoor side.

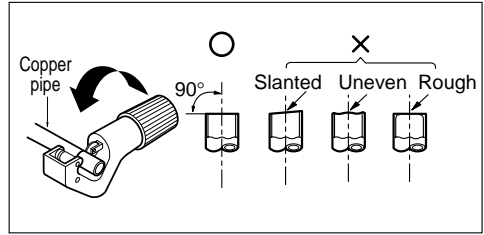


Flaring Work

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

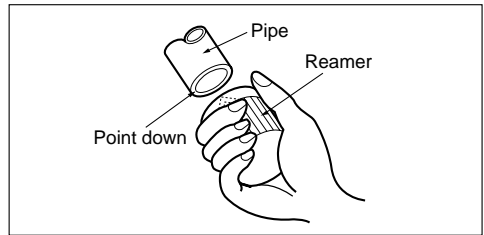
Cut the pipes and the cable.

1. Use the piping kit accessory or the pipes purchased locally.
2. Measure the distance between the indoor and the outdoor unit.
3. Cut the pipes a little longer than measured distance.
4. Cut the cable 1.5m longer than the pipe length.



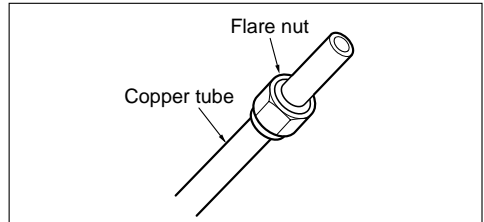
Burrs removal

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.



Putting nut on

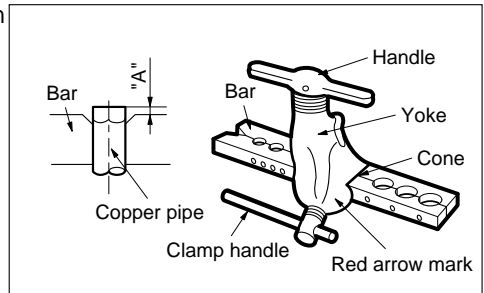
- Remove flare nuts attached to indoor and outdoor unit, then put them on pipe/tube having completed burr removal.
(not possible to put them on after flaring work)



Flaring work

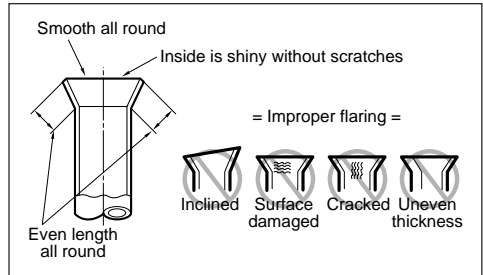
1. Firmly hold copper pipe in a die in the dimension shown in the table below.
2. Carry out flaring work with the flaring tool.

Outside diameter		A
mm	inch	mm
Ø6.35	1/4	0~0.5
Ø9.52	3/8	0~0.5
Ø12.7	1/2	0~0.5
Ø15.88	5/8	0~1.0
Ø19.05	3/4	1.0~1.3



Check

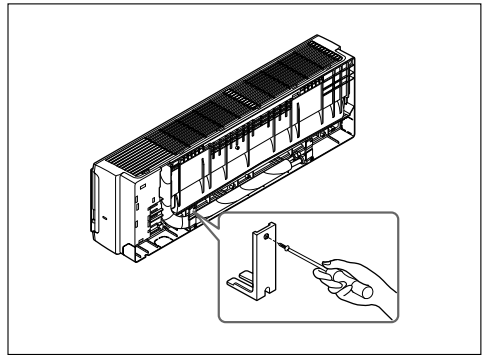
1. Compare the flared work with the figure by.
2. If a flared section is defective, cut it off and do flaring work again.



Connecting the Piping

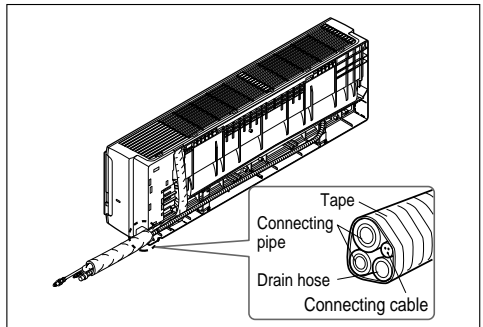
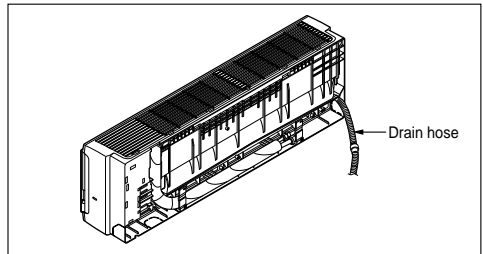
Indoor

1. Prepare the indoor unit's piping and drain hose for installation through the wall.
2. Remove the plastic tubing retainer(see the illustration by) and pull the tubing and drain hose away from chassis.
3. Replace only the plastic tubing holder 1, not the holder 2 in the original position.



For right rear piping

1. Route the indoor tubing and the drain hose in the direction of rear right.
2. Insert the connecting cable into the indoor unit from the outdoor unit through the piping hole.
 - Do not connect the cable to the indoor unit.
 - Make a small loop with the cable for easy connection later.
3. Tape the tubing, drain hose, and the connecting cable. 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.



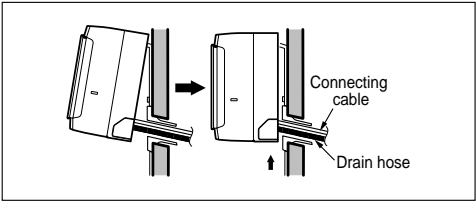
⚠ CAUTION

If the drain hose is routed inside the room, insulate the hose with an insulation material* so that dripping from "sweating"(condensation) will not damage furniture or floors.

*Foamed polyethylene or equivalent is recommended.

4. Indoor unit installation

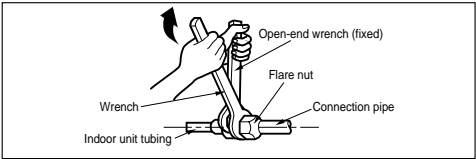
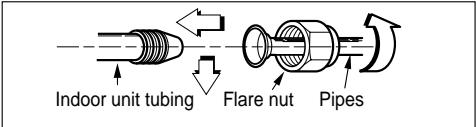
Hook the indoor unit onto the upper portion of the installation plate.(Engage the two hooks of the rear top of the indoor unit with the upper edge of the installation plate.) Ensure that the hooks are properly seated on the installation plate by moving it left and right.



Press the lower left and right sides of the unit against the installation plate until the hooks engage into their slots(clicking sound).

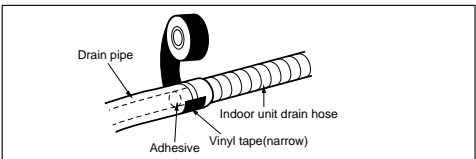
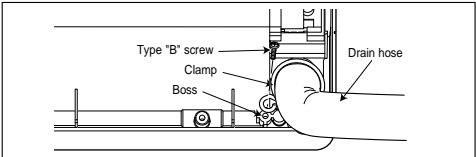
Connecting the piping to the indoor unit and drain hose to drain pipe.

1. Align the center of the pipes and sufficiently tighten the flare nut by hand.
2. Tighten the flare nut with a wrench.



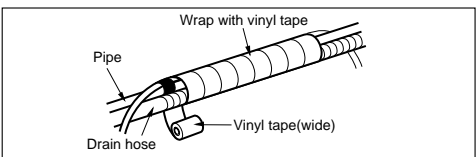
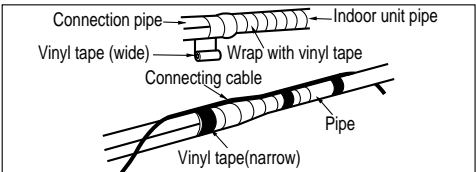
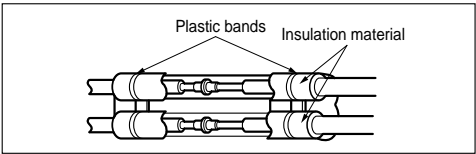
Outside diameter		Torque
mm	inch	kg·m
Ø6.35	1/4	1.8
Ø9.52	3/8	4.2
Ø12.7	1/2	5.5
Ø15.88	5/8	6.6

3. Mount the clamp on the boss with a type "B" screw.(optional)
4. When extending the drain hose at the indoor unit, install the drain pipe.



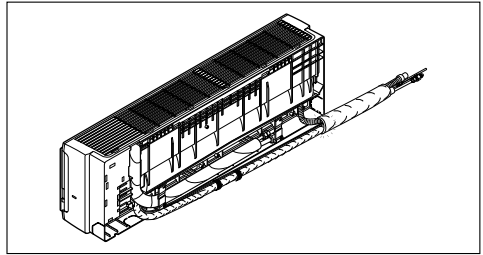
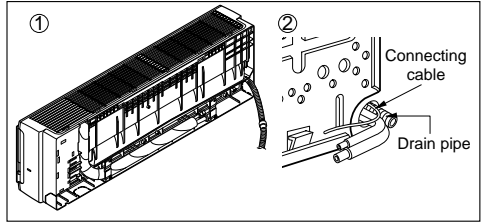
Wrap the insulation material around the connecting portion.

1. Overlap the connection pipe insulation material and the indoor unit pipe insulation material. Bind them together with vinyl tape so that there may be no gap.
2. Wrap the area which accommodates the rear piping housing section with vinyl tape.
3. Bundle the piping and drain hose together by wrapping them with vinyl tape for enough to cover where they fit into the rear piping housing section.

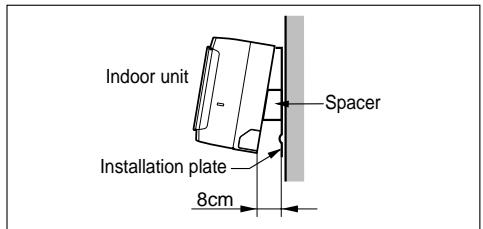


For left rear piping

1. Route the indoor tubing and the drain hose to the required piping hole position.
2. Insert the piping, drain hose, and the connecting cable into the piping hole.
3. Insert the connecting cable into the indoor unit.
 - Don't connect the cable to the indoor unit.
 - Make a small loop with the cable for easy connection later.
4. Tape the drain hose and the connecting cables.

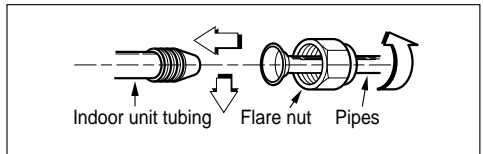


5. Indoor unit installation
 - Hang the indoor unit from the hooks at the top of the installation plate.
 - Insert the spacer etc. between the indoor unit and the installation plate and separate the bottom of the indoor unit from the wall.

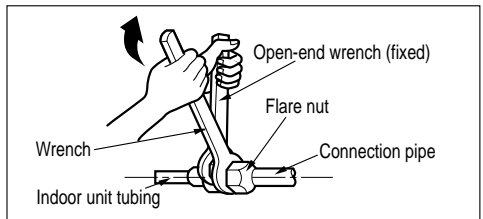


Connecting the piping to the indoor unit and the drain hose to drain pipe.

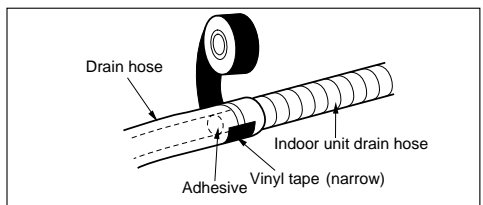
1. Align the center of the pipes and sufficiently tighten the flare nut by hand.
2. Tighten the flare nut with a wrench.



Outside diameter		Torque
mm	inch	kg·m
Ø6.35	1/4	1.8
Ø9.52	3/8	4.2
Ø12.7	1/2	5.5
Ø15.88	5/8	6.6

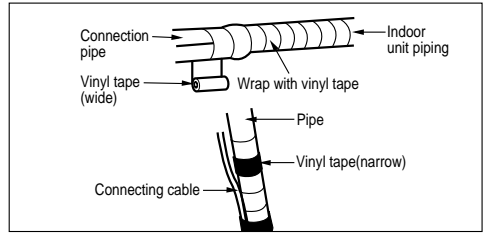
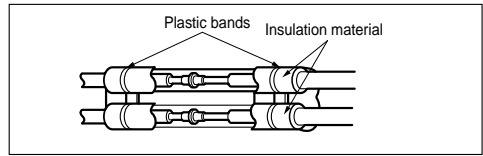


3. When extending the drain hose at the indoor unit, install the drain pipe.

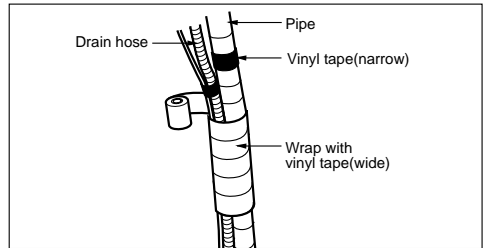


Wrap the insulation material around the connecting portion.

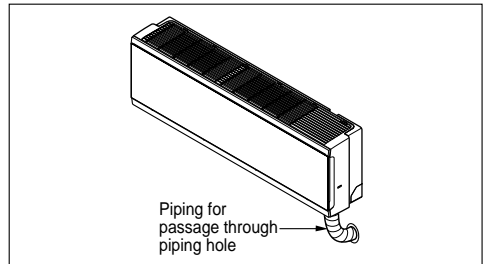
1. Overlap the connection pipe heat insulation and the indoor unit pipe heat insulation material. Bind them together with vinyl tape so that there may be no gap.
2. Wrap the area which accommodates the rear piping housing section with vinyl tape.



3. Bundle the piping and drain hose together by wrapping them with cloth tape over the range within which they fit into the rear piping housing section.

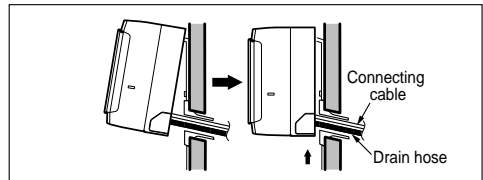


Reroute the pipings and the drain hose across the back of the chassis.



Indoor unit installation

1. Remove the spacer.
2. Ensure that the hooks are properly seated on the installation plate by moving it left and right.
3. Press the lower left and right sides of the unit against the installation plate until the hooks engage into their slots (clicking sound).

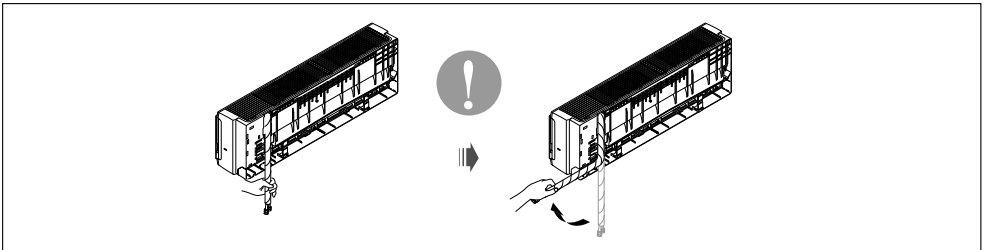


⚠ CAUTION

Installation Information. For left piping. Follow the instruction below.

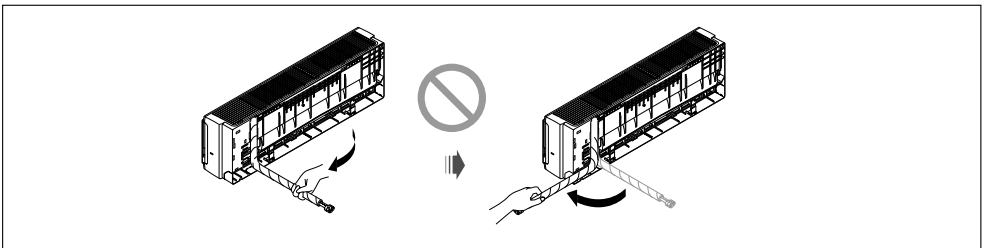
Good case

- Press on the upper side of clamp and unfold the tubing to downward slowly.



Bad case

- Following bending type from right to left may cause damage to the tubing.

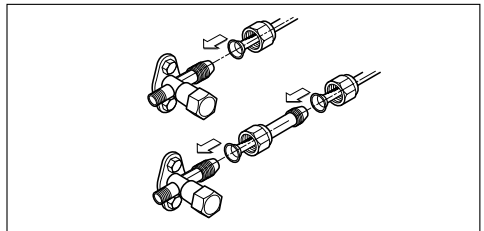


Connection of piping - Outdoor

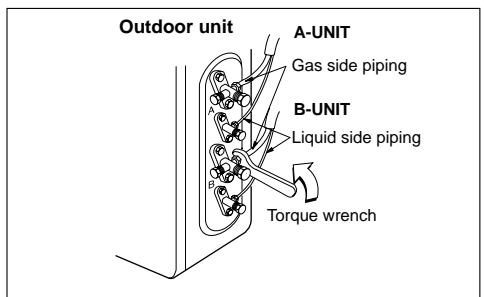
Align the center of the piping and sufficiently tighten the flare nut by hand.

Finally, tighten the flare nut with torque wrench until the wrench clicks.

- When tightening the flare nut with torque wrench ensure the direction for tightening follows the arrow on the wrench.



Outside diameter		Torque kg.m
mm	inch	
Ø6.35	1/4	1.8
Ø9.52	3/8	4.2
Ø12.7	1/2	5.5
Ø15.88	5/8	6.6
Ø19.05	3/4	6.6



Connecting the Cable between Indoor Unit and Outdoor Unit

Connect the cable to the Indoor unit.

Connect the cable to the indoor unit by connecting the wires to the terminals on the control board individually according to the outdoor unit connection. (Ensure that the color of the wires of the outdoor unit and the terminal No. are the same as those of the indoor unit.)

The earth wire should be longer than the common wires.

The circuit diagram is not subject to change without notice.

When installing, refer to the circuit diagram behind the panel front of Indoor Unit the wiring diagram on the Control Cover Inside Outdoor Unit.

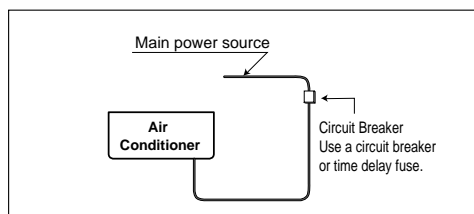


CAUTION:

- The circuit diagram is not subject to change without notice.
- Be sure to connect wires according to the wiring diagram.
- Connect the wires firmly, so that not to be pulled out easily.
- Connect the wires according to color codes by referring the wiring diagram.



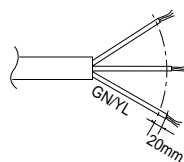
CAUTION: Provide a circuit breaker between power source and the unit as shown below.



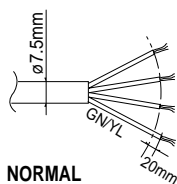
CAUTION: The power cord connected to the outdoor unit should be complied with the following specifications (Cable type approved by HAR or SAA).

NORMAL CROSS SECTIONAL AREA	Grade						
	14k	18k	24k	30k	40k	48k	56k
	2.5	2.5	2.5	3.5	5.5	5.5	5.5
Cable Type	H05RN-F						

(mm²)



The power connecting cable connected to the indoor and outdoor unit should be complied with the following specifications (Type "B" approved by HAR or SAA).

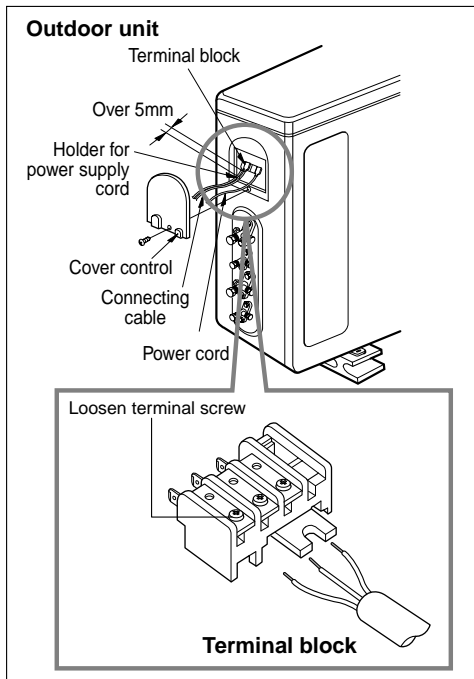


NORMAL
CROSS-SECTIONAL
AREA 0.75mm²
H05VV-F

Connect the cable to the Outdoor unit.

1. Remove the cover control from the unit by loosening the screw.
Connect the wires to the terminals on the control board individually as the following.
2. Secure the cable onto the control board with the holder (clammer).
3. Refix the cover control to the original position with the screw.
4. Use a recognized circuit breaker between the power source and the unit. A disconnection device to adequately disconnect all supply lines must be fitted.

Circuit Breaker (A)	Grade (Btu/h)					
	7k-14k	18k	24k-28k	30k, 32k	36k, 40k	48k, 50k
	15	20	30	30	40	50



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

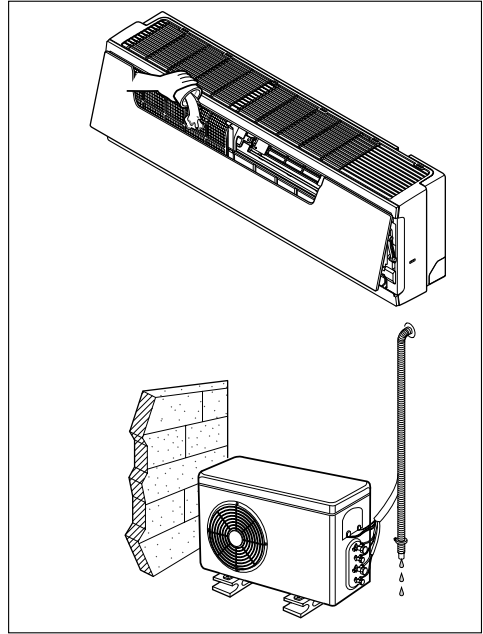
1. Never fail to have an individual power circuit specifically for the air conditioner. As for the method of wiring, be guided by the circuit diagram posted on the inside of control cover.
2. Firmly tighten the terminal screws to prevent them loosening. After tightening, pull the wires lightly to confirm that they do not move. (If they are loose the unit, the unit will not operate normally or it can 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. (Particularly note the relation between cable length and thickness.)
7. Do not 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 3mm in each active(phase) conductors.

Checking the Drainage, Forming the Pippings and Long Pipe Setting

Checking the drainage

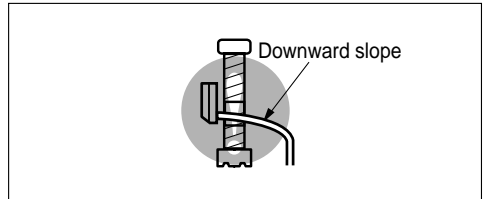
To check the drainage.

1. Pour a glass of water on the evaporator.
2. Ensure the water flows through the drain hose of the indoor unit without any leakage and goes out the drain exit.

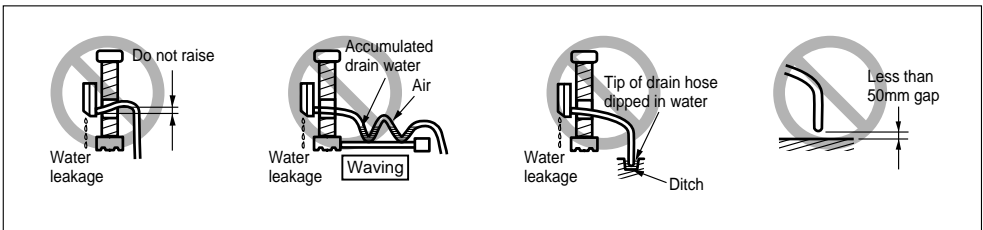


Drain piping

1. The drain hose should point downward for easy drain flow.



2. Do not make drain piping.



Forming the piping

Form the piping by wrapping the connecting portion of the indoor unit with insulation material and secure it with two kinds of vinyl tape.

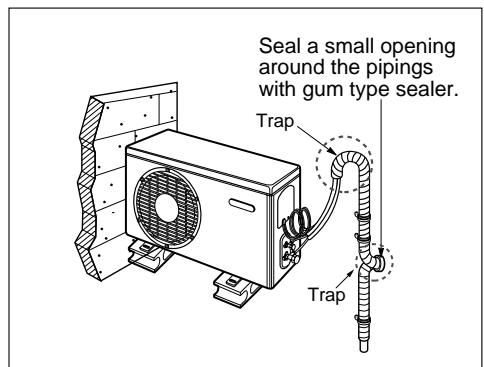
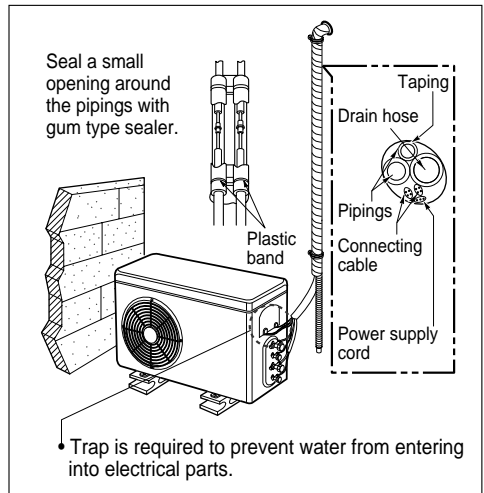
- If you want to connect an additional drain hose, the end of the drain outlet should be routed above the ground. Secure the drain hose appropriately.

In cases where the outdoor unit is installed below the indoor unit perform the following.

1. Tape the piping, drain hose and connecting cable from down to up.
2. Secure the tapped piping along the exterior wall using saddle or equivalent.

In cases where the Outdoor unit is installed above the Indoor unit perform the following.

1. Tape the piping and connecting cable from down to up.
2. Secure the taped piping along the exterior wall. Form a trap to prevent water entering the room.
3. Fix the piping onto the wall by saddle or equivalent.

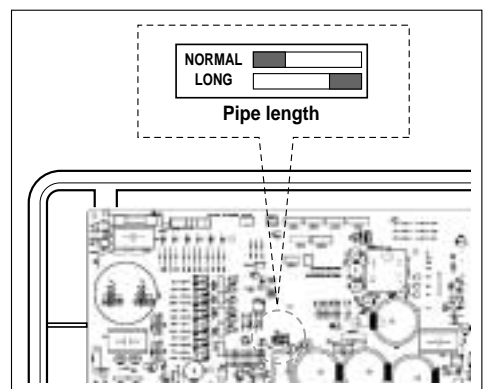


Long Pipe Setting

1. Open the top cover of outdoor unit.
2. Select one of the two selectable modes as follows.
3. Move the Slide switch to "LONG" position.
4. Close the top cover and check whether the product works normally.



WARNING: Do not open the top cover or Set the pipe length when operating the product.



Air Purging and Evacuation

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

1. Pressure in the system rises.
 2. Operating current rises.
 3. Cooling(or heating) efficiency drops.
 4. Moisture in the refrigerant circuit may freeze and block capillary tubing.
 5. Water may lead to corrosion of parts in the refrigeration system.
- Therefore, the indoor/outdoor unit and connecting tube must be checked for leak tight, and vacuumed to remove incondensable gas and moisture in the system.

Checking method

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. Check that both the liquid and the gas side service valves on the outdoor unit are kept closed at this stage.

Leakage test

- Connect the manifold valve(with pressure gauges) and dry nitrogen gas cylinder to this service port with charge hoses.



CAUTION: Be sure to use a manifold valve for leakage test.

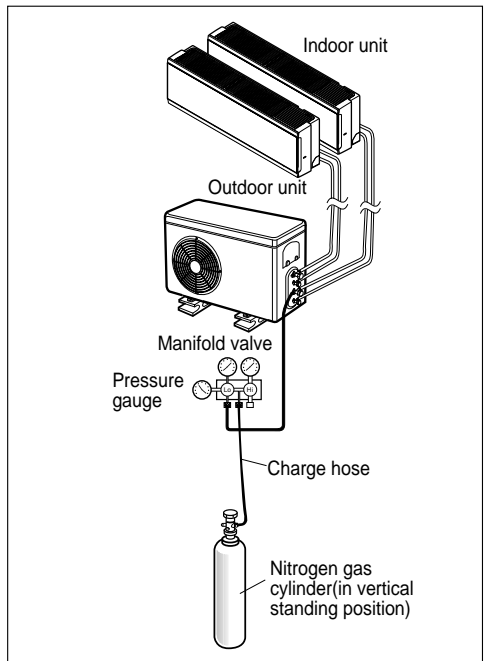
If it is not available, use a stop valve for this purpose. The "Hi" knob of the manifold valve must always be kept close.

- Pressurize the system to no more than 150 P.S.I.G. with dry nitrogen gas and close the cylinder valve when the gauge reading reached 150 P.S.I.G. Next, test for leaks with liquid soap.



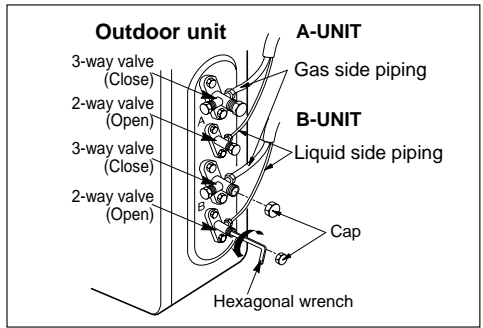
CAUTION: To avoid nitrogen entering the refrigerant system in a liquid state, the top of the cylinder must be higher than its bottom when you pressurize the system. Usually, the cylinder is used in a vertical standing position.

1. Do a leakage test of all joints of the tubing(both indoor and outdoor) and both gas and liquid side service valves. Bubbles indicate a leak. Be sure to wipe off the soap with a clean cloth.
2. After the system is found to be free of leaks, relieve the nitrogen pressure by loosening the charge hose connector at the nitrogen cylinder. When the system pressure is reduced to normal, disconnect the hose from the cylinder.



Soap water method

1. Remove the caps from the 2-way and 3-way valves.
2. Remove the service-port cap from the 3-way valve.
3. To open the 2-way valve turn the valve stem counterclockwise approximately 90°, wait for about 2-3 sec, and close it.
4. 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 the piping.
5. If bubbles come out, the pipes have leakage



Evacuation

1. Connect the charge hose end described in the preceding steps to the vacuum pump to evacuate the tubing and indoor unit. Confirm the "Lo" knob of the manifold valve is open. Then, run the vacuum pump. The operation time for evacuation varies with tubing length and capacity of the pump. The following table shows the time required for evacuation.

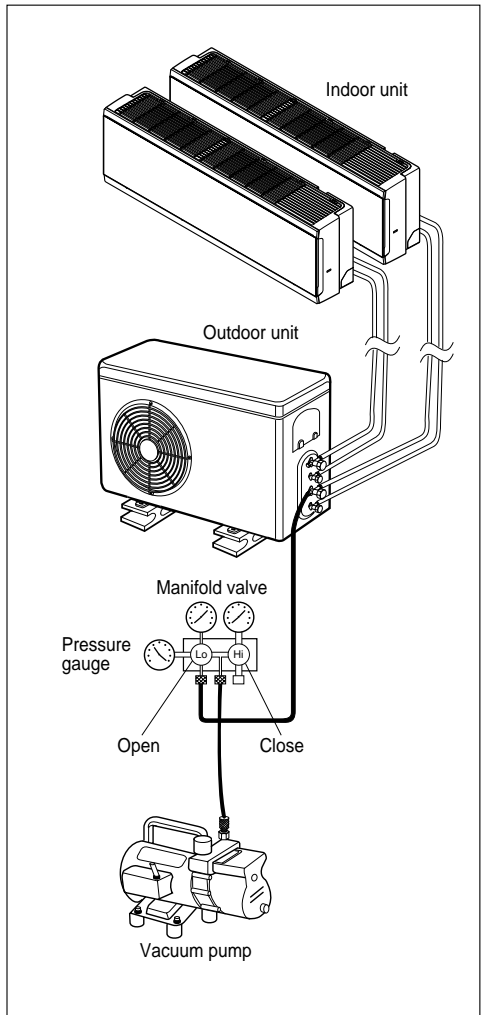
Required time for evacuation when 30 gal/h vacuum pump is used	
If tubing length is less than 10m (33 ft)	If tubing length is longer than 10m (33 ft)
10 min. or more	15 min. or more

2. When the desired vacuum is reached, close the "Lo" knob of the manifold valve and stop the vacuum pump.

Finishing the job

1. With a service valve wrench, turn the valve stem of liquid side valve counter-clockwise to fully open the valve.
2. Turn the valve stem of gas side valve counter-clockwise to fully open the valve.
3. Loosen the charge hose connected to the gas side service port slightly to release the pressure, then remove the hose.
4. Replace the flare nut and its bonnet on the gas side service port and fasten the flare nut securely with an adjustable wrench. This process is very important to prevent leakage from the system.
5. Replace the valve caps at both gas and liquid side service valves and fasten them tight.

This completes air purging with a vacuum pump. The air conditioner is now ready to test run.



Use of Front Panel

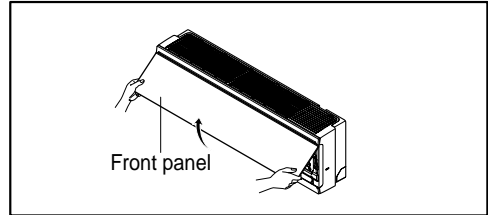
Connecting the Cables

⚠ CAUTION

How to use the front panel

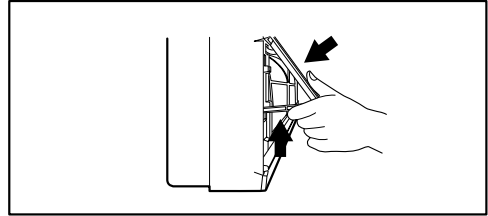
1. Front panel opening

Hold the two ends of the front panel at the bottom and move it upward.



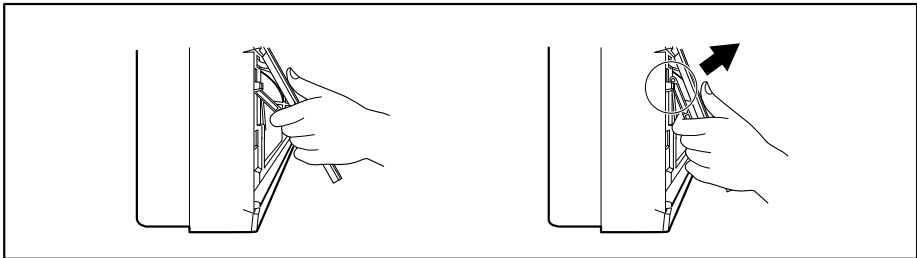
2. Front panel closing

Move the link upward and close the front panel.



3. Front panel removing

Raise the link up to hook hanger and remove front panel forward.

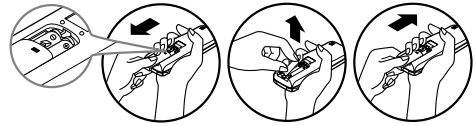


Test Running

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

Prepare remote control

Remove the battery cover by pulling it according to the arrow direction.

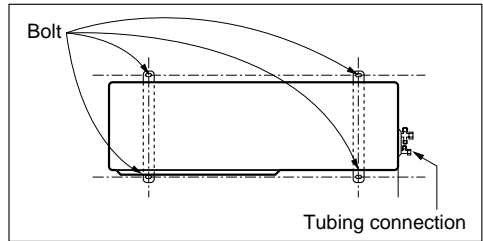


Insert new batteries making sure that the (+) and (-) of battery are installed correctly.

Reattach the cover by pushing it back into position.

NOTICE :

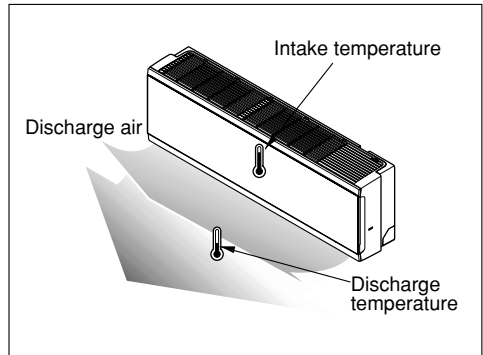
- Use 2 AAA(1.5volt) batteries. Do not use rechargeable batteries.
- Remove the batteries from the remote control if the system is not going to be used for a long time.



Evaluation of the performance

Operate unit for 15~20 minutes, then check the system refrigerant charge:

1. Measure the pressure of the gas side service valve.
2. Measure the temperature of the intake and discharge of air.
3. Ensure the difference between the intake temperature and the discharge is more than 8°C
4. For reference, the gas side pressure of optimum condition is as below.(Cooling)



Refrigerant	Outside ambient TEMP.	The pressure of the gas side service valve.
R-22	35°C (95°F)	4~5kg/cm ² G(56.8~71.0 P.S.I.G.)
R-410A	35°C (95°F)	8.5~9.5kg/cm ² G(120~135 P.S.I.G.)

- NOTICE :** If the actual pressure are higher than shown, the system is most likely over-charged, and charge should be removed. If the actual pressure are lower than shown, the system is most likely undercharged, and charge should be added.
The air conditioner is now ready for use.

Combination indoor units

The indoor units connectable to the outdoor unit are shown below.

Type	Chassis Name	Model Name				
		Capacity, Btu/h				
		7000	9000	12000	18000	24000
Standard Type	SQ					
	SR					
	ST					
Artcool Deluxe Type	SZ					
	SU					
Artcool Type	SP1					
Mirror Type	SE					
Ceiling Mounted Cassete Type 1Way	TC					
Ceiling Mounted Cassete Type 4Way	TE					
	TF					
Ceiling concealed Duct (High Static)	BH					
Ceiling concealed Duct (Low Static)	BT					
	BT1					
Ceiling concealed Duct (Built In)	BP					
Convertible Type	VE					
	VB					

- NOTICE** :
1. The total capacity(in Btu/h unit) of connected indoor unit models represents the total sum of the figures expressed in the indoor model name.
 2. Combinations in which the total capacity of the connected indoor units exceeds the capacity of the outdoor unit will reduce the capacity of each indoor unit below the rated capacity during simultaneous operation. Therefore, if circumstances allows, combine indoor units within the capacity of the outdoor unit

Combination table of Models

※ This table shows available combination.

Above standard combination, suitable performance may not be obtained depending on operating condition.

18k (2 rooms)

	Combination		
	Unit-A	Unit-B	Total
1 UNIT	7		7
	9		9
	12		12
2 UNIT	7	7	14
	7	9	16
	9	9	18
	7	12	19
	9	12	21
	12	12	24

24k (3 rooms)

	Combination			
	Unit-A	Unit-B	Unit-C	Total
1 UNIT	7			7
	9			9
	12			12
	18			18
2 UNIT	7	7		14
	7	9		16
	9	9		18
	7	12		19
	9	12		21
	12	12		24
	7	18		25
	9	18		27
3 UNIT	12	18		30
	7	7	7	21
	7	7	9	23
	7	9	9	25
	7	7	12	26
	9	9	9	27
	7	9	12	28
	9	9	12	30
	7	12	12	31
	9	12	12	33

30k (4 rooms)

	Combination				
	Unit-A	Unit-B	Unit-C	Unit-D	Total
1 UNIT	7				7
	9				9
	12				12
	18				18
2 UNIT	7	7			14
	7	9			16
	9	9			18
	7	12			19
	9	12			21
	12	12			24
	7	18			25
	9	18			27
	12	18			30
	18	18			36
3 UNIT	7	7	7		21
	7	7	9		23
	7	9	9		25
	7	7	12		26
	9	9	9		27
	7	9	12		28
	9	9	12		30
	7	12	12		31
	7	7	18		32
	9	12	12		33
	7	9	18		34
	12	12	12		36
	9	9	18		36
	7	12	18		37
	9	12	18		39
4 UNIT	7	7	7	7	28
	7	7	7	9	30
	7	7	9	9	32
	7	7	7	12	33
	7	9	9	9	34
	7	7	9	12	35
	9	9	9	9	36
	7	9	9	12	37
	7	7	12	12	38
	9	9	9	12	39
	7	7	7	18	39

40k (6 rooms)

	Combination						
	Unit-A	Unit-B	Unit-C	Unit-D	Unit-E	Unit-F	Total
1 UNIT	7						7
	9						9
	12						12
	18						18
	24						24
2 UNIT	7	7					14
	7	9					16
	9	9					18
	7	12					19
	9	12					21
	12	12					24
	7	18					25
	9	18					27
	12	18					30
	7	24					31
	9	24					33
	18	18					36
	12	24					36
	18	24					42
	24	24					48
3 UNIT	7	7	7				21
	7	7	9				23
	7	9	9				25
	7	7	12				26
	9	9	9				27
	7	9	12				28
	9	9	12				30
	7	12	12				31
	7	7	18				32
	9	12	12				33
	7	9	18				34
	12	12	12				36
	9	9	18				36
	7	12	18				37
	7	7	24				38
	9	12	18				39
	7	9	24				40
	12	12	18				42
	9	9	24				42
	7	18	18				43
	7	12	24				43
	9	18	18				45
	9	12	24				45
	12	18	18				48
	12	12	24				48
7	18	24				49	
9	18	24				51	
4 UNIT	7	7	7	7			28
	7	7	7	9			30
	7	7	9	9			32
	7	7	7	12			33
	7	9	9	9			34
	7	7	9	12			35
	9	9	9	9			36

	Combination						
	Unit-A	Unit-B	Unit-C	Unit-D	Unit-E	Unit-F	Total
4 UNIT	7	9	9	12			37
	7	7	12	12			38
	9	9	9	12			39
	7	7	7	18			39
	7	9	12	12			40
	7	7	9	18			41
	9	9	12	12			42
	7	12	12	12			43
	7	9	9	18			43
	7	7	12	18			44
	9	12	12	12			45
	9	9	9	18			45
	7	7	7	24			45
	7	9	12	18			46
	7	7	9	24			47
	12	12	12	12			48
	9	9	12	18			48
	7	12	12	18			49
	7	9	9	24			49
	7	7	12	24			50
9	12	12	18			51	
9	9	9	24			51	
7	9	12	24			52	
5 UNIT	7	7	7	7	7		35
	7	7	7	7	9		37
	7	7	7	9	9		39
	7	7	7	7	12		40
	7	7	9	9	9		41
	7	7	7	9	12		42
	7	9	9	9	9		43
	7	7	9	9	12		44
	9	9	9	9	9		45
	7	9	9	9	12		46
	9	9	9	9	12		48
	7	7	7	12	12		45
	7	7	7	7	18		46
	7	7	9	12	12		47
	7	7	7	9	18		48
	7	9	9	12	12		49
	7	7	12	12	12		50
	7	7	9	9	18		50
	9	9	9	12	12		51
	7	7	7	12	18		51
7	9	12	12	12		52	
7	9	9	9	18		52	
7	7	7	7	24		52	
6 UNIT	7	7	7	7	7	7	42
	7	7	7	7	7	9	44
	7	7	7	7	9	9	46
	7	7	7	7	7	12	47
	7	7	7	9	9	9	48
	7	7	7	7	9	12	49
	7	7	9	9	9	9	50
	7	7	7	9	9	12	51
7	9	9	9	9	9	52	

