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.

TYPE: Standard inverter



P/NO : MFI 67448501

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Safety Precautions

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

- Be sure to read before installing the air conditioner.
- Be sure to observe the cautions specified here as they include important items related to safety.
- Incorrect operation due to ignoring instruction will cause harm or damage. The seriousness is classified by the following indications.

AWARNING This symbol indicates the possibility of death or serious injury.

ACAUTION

This symbol indicates the possibility of injury or damage to properties only.

■ The meanings of the symbols used in this manual are as shown below.

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

AWARNING

Installation

Always perform grounding.

Don't use a power cord, a plug or a loose socket which is damaged.

always contact the service center or a professional installation agency. · Otherwise, it may cause a fire · Otherwise, it may cause a fire, elec-

For installation of the product,

· Otherwise, it may cause electrical shock.

Securely attach the electrical part cover to the indoor unit and the service panel to the outdoor unit.

 If the electrical part cover of the indoor unit and the service panel of the outdoor unit are not attached securely, it could result in a fire or electric shock due to dust, water, etc.

Always install an air leakage breaker and a dedicated switching board.

or electrical shock.

 No installation may cause a fire and electrical shock

Do not keep or use flammable gases or combustibles near

trical shock, explosion or injury.

the air conditioner

· Otherwise, it may cause a fire or the failure of product.

Ensure that an installation frame of the outdoor unit is not damaged due to use for a long time.

Do not disassemble or repair the product randomly.

· It may cause injury or an accident.

· It will cause a fire or electrical shock.

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.

Do not install the product at a place that there is concern of falling down.

· Otherwise, it may result in personal injury.

Use caution when unpacking and installing.

· Sharp edges may cause injury.

■ Operation

Do not share the outlet with other appliances.

 It will cause an electric shock or a fire due to heat generation.

Do not use the damaged power cord.

 Otherwise, it may cause a fire or electrical shock.

Do not modify or extend the power cord randomly.

 Otherwise, it may cause a fire or electrical shock.

Take care so that the power cord may not be pulled during operation.

 Otherwise, it may cause a fire or electrical shock.

Unplug the unit if strange sounds, smell, or smoke comes from it.

Otherwise, it may cause electrical shock or a fire.

Keep the flames away.

• Otherwise, it may cause a fire.

Take the power plug out if necessary, holding the head of the plug and do not touch it with wet hands.

 Otherwise, it may cause a fire or electrical shock.

Do not use the power cord near the heating tools.

 Otherwise, it may cause a fire and electrical shock.

Do not open the suction inlet of the indoor/outdoor unit during operation.

 Otherwise, it may electrical shock and failure.

Do not allow water to run into electrical parts.

 Otherwise, it may cause the failure of machine or electrical shock.

Hold the plug by the head when taking it out.

 It may cause electric shock and damage.

Never touch the metal parts of the unit when removing the filter.

 They are sharp and may cause injury.

Do not step on the indoor/outdoor unit and do not put anything on it.

• It may cause an injury through dropping of the unit or falling down.

Do not place a heavy object on the power cord.

 Otherwise, it may cause a fire or electrical shock.

When the product is submerged into water, always contact the service center.

 Otherwise, it may cause a fire or electrical shock.

Take care so that children may not step on the outdoor unit.

 Otherwise, children may be seriously injured due to falling down.

ACAUTION

■ Installation

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

· Otherwise, it may cause water leakage.

Install the product so that the noise or hot wind from the outdoor unit may not cause any damage to the neighbors.

· Otherwise, it may cause dispute with the neighbors.

Always inspect gas leakage after the installation and repair of product.

Otherwise, it may cause the failure of product.

Keep level parallel in installing the product.

 Otherwise, it may cause vibration or water leakage.

■ Operation

Avoid excessive cooling and perform ventilation sometimes.

· Otherwise, it may do harm to your health.

Do not use an appliance for special purposes such as preserving animals vegetables, precision machine, or art articles.

· Otherwise, it may damage your properties.

Use a soft cloth to clean. Do not use wax. thinner, or a strong detergent.

 The appearance of the air conditioner may deteriorate, change color, or develop surface flaws.

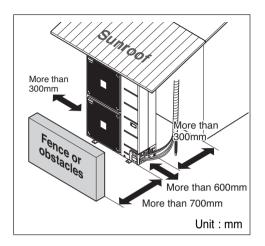
Do not place obstacles around the flow inlet or outlet.

· Otherwise, it may cause the failure of appliance or an accident.

Installation of Outdoor Unit

1. Installation Places

- 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.
- Ensure that the spaces indicated by arrows around front, back and side of the unit.
- Do not place animals and plants in the path of the warm air.
- Take the air conditioner weight into account and select a place where noise and vibration are minimum.
- Select a place so that the warm air and noise from the air conditioner do not disturb neighbors.

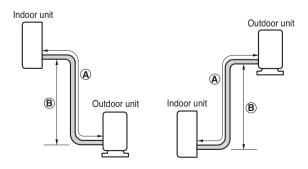


2. Piping length and the elevation

■ Single Operation

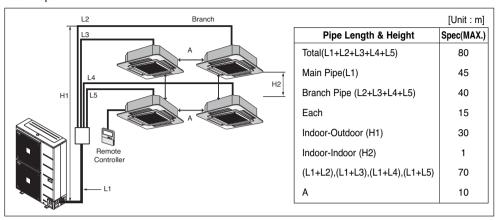
Model	Capacity Pipe Size mm(inch)		Length	n A(m)	Elevation	n B(m)	Additional refrigerant	
	, ,	Gas	Liquid	Standard	Max.	Standard	Max.	(g/m)
UU18W	5kW	Ø12.7(1/2)	Ø6.35(1/4)	7.5	40	5	30	20
UU24W	7kW	Ø15.88(5/8)	Ø9.52(3/8)	7.5	50	5	30	40
UU30W	8kW	Ø15.88(5/8)	Ø9.52(3/8)	7.5	50	5	30	40
UU36W/UU37W	10kW	Ø15.88(5/8)	Ø9.52(3/8)	7.5	50	5	30	40
UU42W/UU43W	12.5kW	Ø15.88(5/8)	Ø9.52(3/8)	7.5	75	5	30	40
UU48W/UU49W	14kW	Ø15.88(5/8)	Ø9.52(3/8)	7.5	75	5	30	40
UU60W/UU61W	15kW	Ø15.88(5/8)	Ø9.52(3/8)	7.5	75	5	30	40

If installed tube is shorter than 7.5 m, additional charging is not necessary. Additional Refrigerant = $(A - 7.5) \times Additional$ refrigerant (g)



■ Synchro Operation

Install the branch pipe so that pipe length and difference between high and low will not exceed below Spec.



- · When installing the branch pipe, direction and angle of installation is not limited.
- Take care so that burrs and foreign material may not enter into the cutting surface when connecting.
- Connect remaining those by cutting or direct insertion to the diameter of pipe.

■ Refrigerant Additional Charging Method

For additional charging method, see below table.

Indoor Unit	Refrigerant Additional charging (g)
Duo	Refrigerant = (L1-b) x B + (L2 + L3) x C
Trio	Refrigerant = (L1-b) x B + (L2 + L3 + L4) x C
Quartet	Refrigerant = (L1-b) x B + (L2 + L3 + L4 + L5) x C

Pipe Diameter. (mm)	C (g/m)
Ø 6.35	35
Ø 9.52	40

Model	b (m)	B (g/m)
UU42W/UU43W UU48W/UU49W UU60W/UU61W	7.5	40

NOTICE

- b: Rated performance for refrigerant line length.
- C: Additional charging Refrigerant of Branch Liquid Pipe.
- B: Additional charging Refrigerant of Main Liquid Pipe.



CAUTION:

- · Capacity is based on standard length and maximum allowance length is on the basis of reliability.
- · Improper refrigerant charge may result in abnormal cycle.

3. Synchro Combination table

			Possible combination of indoor units							
			Synchro							
			Duo			Trio		Quartet		
REMO : WIR	DOOR UNIT ACH BUTOR UNIT	IDL REM		טס	IDU REMO	ODU IDU	IDU	IDU REMO	ODU IDU IDU	IDU
MOI	DEL	Cas- sette	Duct	Ceiling Suspended	Cas- sette	Duct	Ceiling Suspended	Cas- sette	Duct	Ceiling Suspended
UU42W	//UU43W	CT24 NP2*2	CB24 NH2*2	CV24 NJ2*2	CT18 NQ2*3	CB18 NH2*3	CV18 NJ2*3	CT12 NR2*4		-
UU48W	//UU49W	CT24 NP2*2	CB24 NH2*2	CV24 NJ2*2	CT18 NQ2*3	CB18 NH2*3	CV18 NJ2*3	CT12 NR2*4		-
UU60W	//UU61W	UT30 NP2*2	UB30 NG2*2	UV30 NJ2*2	CT18 NQ2*3	CB18 NH2*3	CV18 NJ2*3	CT12 NR2*4		-
Applied Bdi	unit	PMUB11A PMUB111A PMUB1111A				A				
Acces- Sin	mple central ntroller**	PQCSZ250S0								

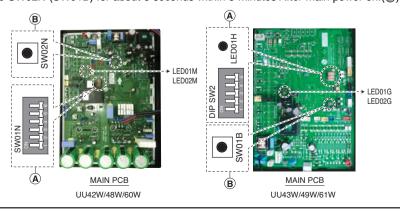
NOTICE

- ** When using synchro operation,
- Do not use wireless remote controller.
- Use only one wired remote controller in the indoor units.
- Use Simple central controller "PQCSZ250S0" only.

4. Outdoor Unit PCB Setting Procedure For Simultaneous Operation System

- 1. SW01N (PIP SW2) Setting
 Set the SW01N (PIP SW2) as below Table (A)
- Auto Addressing Method
 Addressing work assigns address to each indoor unit. When firstly installing product or replacing
- * Work procedure
- 1) Set SW01N (PIP SW2) correctly.
- 2) Turn on main power.
- 3) Press the SW02N (SW01B) for about 3 seconds within 3 minutes After main power on.(®)

the indoor unit PCB. Auto Addressing work should be done for simultaneous operation.



- 4) After step 3), the LED01M/G (red LED) and LED02M/G (green LED) rapidly flickers. When Addressing work is done, green LED is off, else LED (LED01M/G) stops flickering and lights continuously. Address of indoor unit is indicated on the wired remote control display window. (CH01, CH02, CH03, CH04)
- 5) Press ① button to turn on the indoor.
- 6) If you fail to perform the Addressing work, repeat step $2)\sim5$).

Table SW01N (PIP SW2) Setting				
SW01N (PIP SW2)	Indoor Unit No.			
ON 1 2 3 4 5 6	1(Single) : Default			
ON 1 2 3 4 5 6	2(Duo)			
ON 1 2 3 4 5 6	3(Trio)			
ON 1 2 3 4 5 6	4(Quartet)			

Night Silent Operation setting

- 1. Open the Side panel or Top Cover of outdoor unit.
- 2. Set the SW01N (PIP SW2).



UU18W UU24W **UU30W**



UU36W UU42W UU48W UU60W



UU37W UU43W UU49W UU61W

3. Close the Side panel or Top Cover.





UU18W UU24W UU30W





UU36W UU42W UU48W UU60W





UU37W UU43W UU49W **UU61W**

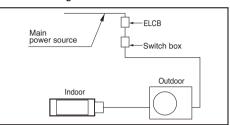
Wiring Connection

Electrical Wiring

Perform the electrical wiring work according to the electrical wiring connection.

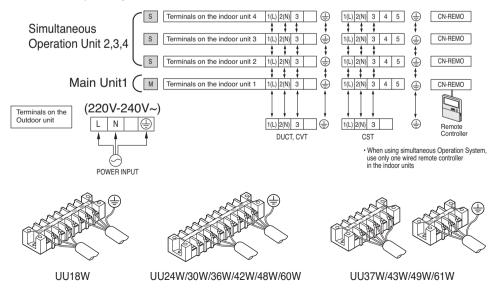
- All wiring must comply with local requirements.
- Select a power source that is capable of supplying the current required by the air conditioner.
- Use a recognized ELCB(Electric Leakage Circuit Breaker) between the power source and the unit. A disconnection device to adequately disconnect all supply lines must be fitted.
- Model of circuit breaker recommended by authorized personnel only

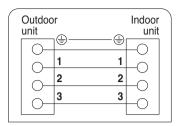
Model	Phase(Ø)	ELCB
UU18W	1	20A
UU24W	1	30A
UU30W	1	30A
UU36W	1	40A
UU42W/UU48W/UU60W	1	40A
UU37W	3	20A
UU43W/UU49W/UU61W	3	25A



Connecting Cables between Indoor Unit and Outdoor Unit

- · Connect the wires to the terminals on the control board individually according to the outdoor unit connection.
- Ensure that the color of the wires of outdoor unit and the terminal No. are the same as those of indoor unit respectively





A CAUTION

The power cord connected to the outdoor unit should be complied with EC 60245 or HD 22.4 S4 (This equipment shall be provided with a cord set complying with the national regulation.



Model	Phase(Ø)	Area(mm²)
UU18W/24W/30W	1	2.5
UU36W/UU42W /UU48W/UU60W	1	5
UU37W/UU43W /UU49W/UU61W	3	2.5

The connecting cable connected to the outdoor unit should be complied with IEC 60245 or HD 22.4 S4 (This equipment shall be provided with a cord set complying with the national regulation.)

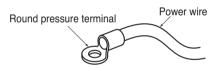


When the connection line between the indoor unit and outdooor unit is over 40m, connect the telecommunication line and power line separately.

If the supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer of its service agent.

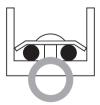
Precautions when laying power wiring

Use round pressure terminals for connections to the power terminal block.



When none are available, follow the instructions below.

- · Do not connect wiring of different thicknesses to the power terminal block. (Slack in the power wiring may cause abnormal heat.)
- When connecting wiring which is the same thickness, do as shown in the figure below.



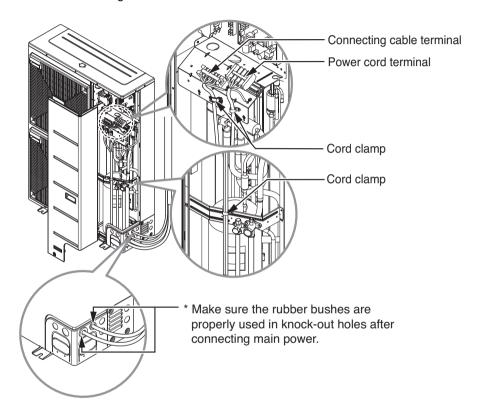




- For wiring, use the designated power wire and connect firmly, then secure to prevent outside pressure being exerted on the terminal block.
- · Use an appropriate screwdriver for tightening the terinal screws. A screwdriver with a small head will strip the head and make proper tighterning impossible.
- · Over-tightening the terminal screws may break them.

Connecting the cable to Outdoor Unit

- · Remove the side panel for wiring connection.
- · Use the cord clamp to fix the cord.
- Earthing work
 - Connect the cable of diameter more to the earthing terminal provided in the control box and do earthing.





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:

The Power cord connected to the unit should be selected according to the following specifications.

Connecting Pipes

Preparation of Piping

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

Cut the pipes and the cable.

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

Burrs removal

- · Completely remove all burrs from the cut cross section of pipe/tube.
- Put the end of the copper tube/pipe to downward direction as you remove burrs in order to avoid to let burrs drop in the tubing.

Putting nut on

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

Flaring work

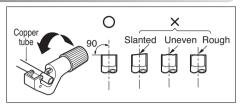
· Carry out flaring work using dedicated flaring tool for R-410A as shown below.

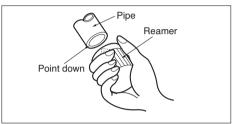
Outside	"A"	
mm	inch	mm
Ø6.35	1/4	1.1~1.3
Ø9.52	3/8	1.5~1.7
Ø12.7	1/2	1.6~1.8
Ø15.88	5/8	1.6~1.8

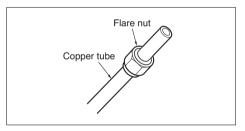
Firmly hold copper tube in a bar(or die) as indicated dimension in the table above.

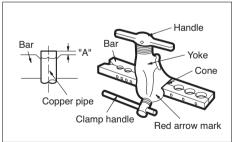
Check

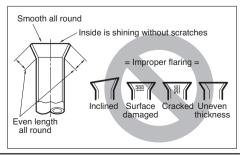
- · Compare the flared work with figure below.
- · If flare is noted to be defective, cut off the flared section and do flaring work again.







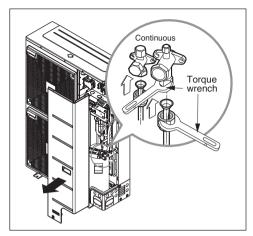




Connecting the pipes to the Outdoor unit

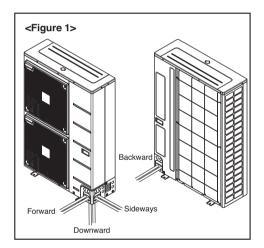
- Align the center of the piping and sufficiently tighten the flare nut by hand.
- Finally, tighten the flare nut with torque wrench until the wrench clicks.
 - When tightening the flare nut with torque wrench, ensure the direction for tightening follows the arrow on the wrench.

Outside	Torque	
mm	inch	kgf⋅m
Ø6.35	1/4	1.8~2.5
Ø9.52	3/8	3.4~4.2
Ø12.7	1/2	5.5~6.6
Ø15.88	5/8	6.3~8.2

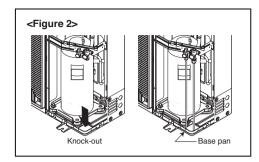


₩ When tighten the pipe, hold the haxagonal body.

· But, except 18k model



 When connecting in a downward direction, knock out the knock-out hole of the base pan. (refer to figure 2)



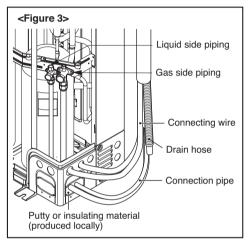
Preventing foreign objects from entering (Figure3)

• Plug the pipe through-holes with putty or insulation material(procured locally)to stop up all gaps, as shown in the figure 3.



CAUTION:

Insects or small animals entering the outdoor unit may cause a short circuit in the electrical box.



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.

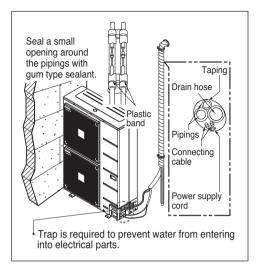
 If you want to connect an additional drain hose, the end of the drain outlet should be routed above the ground. Secure the drain hose appropriately.

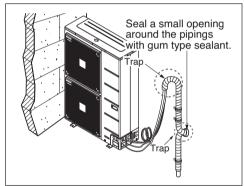
In cases where the outdoor unit is installed below the indoor unit perform the following.

- 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.
- Secure the taped piping along the exterior wall. Form a trap to prevent water entering the room.
- Fix the piping onto the wall by saddle or equivalent.





Leakage test 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.

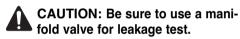
Therefore, the indoor/outdoor unit and connecting tube must be checked for leak tight, and vacuumed to remove incondensible gas and moisture in the system.

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.



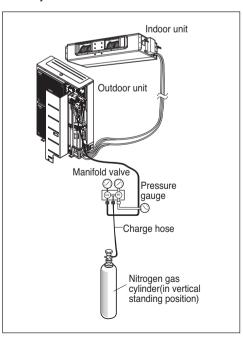
If it is not available, use a stop valve for this purpose. The "Hi" knob of the manifold valve must always be kept close.

 Pressurize the system to no more than 3.0 Mpa with dry nitrogen gas and close the cylinder valve when the gauge reading reached 3.0 MPa 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 unit and outdoor unit) 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.



Evacuation

 Connect the charge hose end described in the preceding steps to the vacuum pump to evacuate the tubing and indoor unit.

Confirm the "Lo and Hi" 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.

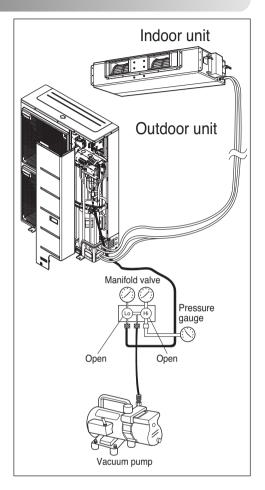
Required time for evacuation when 30 gal/h vacuum pump is used				
If tubing length is less than 10 m(33 ft)	If tubing length is longer than 10 m(33 ft)			
30 min. or more	60 min. or more			
0.07 kPa or less				

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

Finishing the job

- 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 counterclockwise to fully open the valve.
- 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.



Test running

1. PRECAUTIONS IN TEST RUNNING

• The initial power supply must provide at least 90% of the rated voltage. Otherwise, the air conditioner should not be operated.



- CAUTION ^① For test run, carry out the cooling operation firstly even during heating season. If heating operation is carried out firstly, it leads to the trouble of compressor. Then attention must be paid.
 - ② Carry out the test run more than 5 minutes without fail. (Test run will be cancelled 18 minutes later automatically)
- The test run is started by pressing the room temperature checking button and down timer button for 3 seconds at the same time.
- To cancel the test run, press any button.

CHECK THE FOLLOWING ITEMS WHEN INSTALLATION IS COMPLETE

- After completing work, be sure to measure and record trial run properties, and store measured data, etc.
- · Measuring items are room temperature, outside temperature, suction temperature, blow out temperature, wind velocity, wind volume, voltage, current, presence of abnormal vibration and noise, operating pressure, piping temperature, compressive pressure.
- As to the structure and appearance, check following items.
 - Is the circulation of air adequate?
 - Is the draining smooth?
 - □ Is the heat insulation complete (refrigerant and drain piping)?
 - □ Is there any leakage of refrigerant?
- □ Is the remote controller switch operated?
- □ Is there any faulty wiring?
- □ Are not terminal screws loosened?

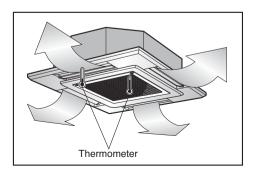
M4.....118N·cm{12kaf·cm} M5.....196N·cm{20kaf·cm} M6.....245N·cm{25kgf·cm} M8.....588N·cm{60kaf·cm}

2. Connection of power supply

- 1. Connect the power supply cord to the independent power supply.
 - · Circuit breaker is required.
- 2. Operate the unit for fifteen minutes or more.

3. Evaluation of the performance

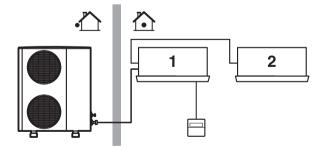
- 1. Measure the temperature of the intake and discharge air.
- 2. Ensure the difference between the intake temperature and the discharge one is more than 8°C (Cooling) or reversely (Heating).





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

- Never fail to have an individual power specialized for the air conditioner.
 As for the method of wiring, be guided by the circuit diagram pasted on the inside of control box cover.
- 2) Provide a circuit breaker switch between power source and the unit.
- 3) The screw which fasten the wiring in the casing of electrical fittings are liable to come loose from vibrations to which the unit is subjected during the course of transportation. Check them and make sure that they are all tightly fastened. (If they are loose, it could give rise to burn-out of the wires.)
- 4) Specification of power source
- 5) Confirm that electrical capacity is sufficient.
- 6) Be sure that the starting voltage is maintained at more than 90 percent of the rated voltage marked on the name plate.
- 7) Confirm that the cable thickness is as specified in the power sources specification. (Particularly note the relation between cable length and thickness.)
- 8) Never fail to equip a leakage breaker where it is wet or moist.
- 9) The following troubles would be caused by voltage drop-down.
 - Vibration of a magnetic switch, damage on the contact point there of fuse breaking, disturbance to the normal function of a overload protection device.
 - Proper starting power is not given to the compressor.
- 10) Use only 1 remote-controller contained in indoor unit, when using simultaneous operation system as shown below.
 After setting the ESP value in the Ceiling Concealed Duct Type Indoor Unit, the main power turns off and then remove the remote controller.
- 11) It is possible to connect (install) same type of indoor units only and also with in a single room.



HAND OVER

Teach the customer the operation and maintenance procedures, using the operation manual (air filter cleaning, temperature control, etc.).

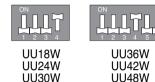
Function

Forced Cooling Operation

· Adding the refrigerant in winter.

Setting Procedure

1) Set the Dip Switch as follow after shutting the power source down.





- 2) Reset the power.
- 3) Red LED and Green LED of PCB lights during work.

UU60W

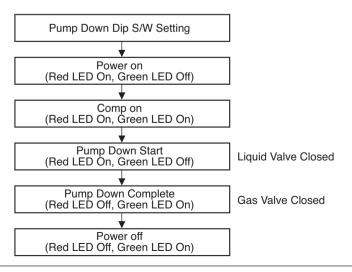
(The indoor unit is operated by force.)

- 4) If operation is done, Red LED will be turned off. If operation is not done normally. Red LED will blink.
- 5) Close the Liquid valve only after green LED turned off (7 minutes from the start of the machine). Then close the gas valve after Green LED on.



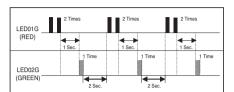
WARNING:

- · When the green LED of PCB is on, compressor is going to be off because of low
- · You should return the Dip Switch to operate normally after finishing the operation.
- · Improper Pump down will lead to product turn off along with LED (green &red) off with in 20 minutes from the initial start.



Self-diagnosis Function

Error Indicator (Outdoor)



Outdoor Error Ex) Error 21 (DC Peack)







UU18W/24W/30W

UU36W/42W/48W/60W

UU37W/43W/49W/61W

Error Code	Description	LED 1 (Red)	LED 2 (Green)	Indoor status
21	DC Peak(IPM Fault)	2times ①	1time ①	OFF
22	Max. CT(CT2)	2times ①	2times ①	OFF
23	DC Link Low Volt.	2times ①	3times ①	OFF
24	Pressure switch/Heater Sink.	2times ①	4times ①	OFF
26	DC Comp Position Error	2times ()	6times ()	OFF
27	PFC Fault Error	2times ①	7times ①	OFF
29	Comp Over Current	2times ①	9times ①	OFF
32	D-Pipe High(Inv.)	3times ()	2times ①	OFF
40	CT Sensor(Open/Short)	4times ①	0	OFF
41	Inv. D-Pipe Th Error(Open/Short)	4times ①	1time ①	OFF
43	High Pressure Sensor(Open/Short)	4times ①	3times ①	OFF
44	Outdoor air Th Error(Open/Short)	4times ①	4times ①	OFF
45	Cond. Middle Pipe Th Error(Open/Short)	4times ①	5times ①	OFF
46	Suction Pipe Th Error(Open/Short)	4times ①	6times ①	OFF
48	Cond. Out-Pipe Th Error(Open/Short)	4times ①	8time ①	OFF
51	Capacity over	5times ()	1times ①	OFF
53	Communication Error(Indoor ↔ Outdoor)	5times ①	3times ①	OFF
60	EEPROM Error(Outdoor)	6times ①	0	OFF
61	Cond. Middle Pipe High	6times ①	1times ①	OFF
62	Heatsink Error(High)	6times ①	2times ①	OFF
65	Heatsink Th Error(Open/Short)	6times ()	5times ①	OFF
67	BLDC motor fan lock(Outdoor)	6times ()	7times ①	OFF

If abnormal voltage is supplied, the protection circuits will turn off the product in order to prevent the component damage. The product will automatically restart after 3 minutes.

Installation Guide at the Seaside

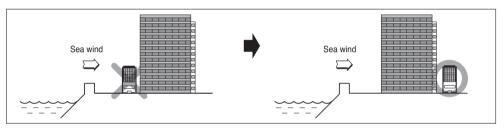


CAUTION:

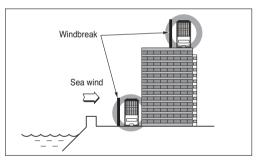
- 1. Air conditioners should not be installed in areas where corrosive gases, such as acid or alkaline gas, are produced.
- 2. Do not install the product where it could be exposed to sea wind (salty wind) directly. It can result corrosion on the product. Corrosion, particularly on the condenser and evaporator fins, could cause product malfunction or inefficient performance.
- 3. If outdoor unit is installed close to the seaside, it should avoid direct exposure to the sea wind. Otherwise it needs additional anticorrosion treatment on the heat exchanger.

Selecting the location(Outdoor Unit)

1) If the outdoor unit is to be installed close to the seaside, direct exposure to the sea wind should be avoided. Install the outdoor unit on the opposite side of the sea wind direction.



2) In case, to install the outdoor unit on the seaside, set up a windbreak not to be exposed to the sea wind.



- It should be strong enough like concrete to prevent the sea wind from the sea.
- · The height and width should be more than 150% of the outdoor unit.
- It should be keep more than 70 cm of space between outdoor unit and the windbreak for easy air flow.

- 3) Select a well-drained place.
 - · Periodic (more than once/year) cleaning of the dust or salt particles stuck on the heat exchanger by using water

