HEAT CONTROLLER, INC.

Ceiling Cassette Type DMC24CA-1, DMC36CA-1 Single-Zone Air Conditioning INSTALLATION INSTRUCTIONS

IMPORTANT!

Please read this instruction sheet completely before installing the product.

This air conditioning system meets strict safety and operating standards. As the installer or service person, it is an important part of your job to install or service the system so it operates safely and efficiently.

↑ WARNING

- Installation or repairs made by unqualified persons can result in hazards to you and others.
 Installation MUST conform with local building codes or, in the absence of local codes, with the National Electrical Code NFPA 70/ANSI C1-1993 or current edition and Canadian Electrical Code Part1 CSA C.22.1.
- The information contained in the manual is intended for use by a qualified service technician familiar with safety
 procedures and equipped with the proper tools and test instruments.
- Failure to carefully read and follow all instructions in this manual can result in equipment malfunction, property damage, personal injury and/or death.

CAUTION: Improper installation, adjustment, alteration, service or maintenance can void the warranty.

The weight of the condensing unit requires caution and proper handling procedures when lifting or moving to avoid personal injury. Use care to avoid contact with sharp or pointed edges.

Safety Precautions

- Always wear safety eye wear and work gloves when installing equipment.
- Never assume electrical power is disconnected. Check with meter and equipment.
- Keep hands out of fan areas when power is connected to equipment.
- R-410A causes frostbite burns.

R-410A is toxic when burned.
 NOTE TO INSTALLING DEALER: The Owners Instructions and Warranty are to be given to the owner or prominently displayed near the indoor Furnace/Air Handler Unit.

↑ Special warnings

When wiring:

Electrical shock can cause severe personal injury or death. Only a qualified, experienced electrician should attempt to wire this system.

- Do not supply power to the unit until all wiring and tubing are completed or reconnected and checked.
- Highly dangerous electrical voltages are used in this system. Carefully refer to the wiring diagram and these
 instructions when wiring. Improper connections and inadequate grounding can cause accidental injury or death.
- Ground the unit following local electrical codes.
- Connect all wiring tightly. Loose wiring may cause overheating at connection points and a possible fire hazard. When transporting:

Be careful when picking up and moving the indoor and outdoor units. Get a partner to help, and bend your knees when lifting to reduce strain on your back. Sharp edges or thin aluminum fins on the air conditioner can cut your finger.

When installing...

- ... in a wall: Make sure the wall is strong enough to hold the unit's weight.
- It may be necessary to construct a strong wood or metal frame to provide added support. ... in a room: Properly insulate any tubing run inside a room to prevent "sweating" that can cause
 - dripping and water damage to wall and floors.
- ... in moist or uneven locations: Use a raised concrete pad or concrete blocks provide a solid, level foundation for the outdoor unit. This prevents water damage and abnormal vibration. ... in an area with high winds: Securely anchor the outdoor unit down with bolts and a metal
- frame. Provide a suitable air baffle. ... in a snowy area(for Heat Pump Model): Install the outdoor unit on a raised platform that is

higher than drifting snow. Provide snow vents. When connecting refrigerant tubing

- Keep all tubing runs as short as possible.
- Use the flare method for connecting tubing.
- Check carefully for leaks before starting the test run.

When servicing

- Turn the power OFF at the main power box(mains) before opening the unit to check or repair electrical parts and wiring.
- Keep your fingers and clothing away from any moving parts.
- Clean up the site after you finish, remembering to check that no metal scraps or bits of wiring have been left inside the unit being serviced.

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- · Insulated drain hose
- · Additional Drain hose (Inner Dia.....32mm(1.26inch))
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- · Hexagonal Wrench (4mm, 5mm(0.16inch, 0.20inch))
- · Gas-leak detector

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- Owner's Manual
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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.

ACAUTION

This symbol indicates the possibility of injury or damage.

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

\bigcirc	Be sure not to do.
0	Be sure to follow the instruction.

▲ WARNING

■ Installation -

Do not use a defective or underrated circuit breaker. Use this appliance on a dedicated circuit.

. There is risk of fire or electric shock.



Install the panel and the cover of control box securely.

• There is risk of fire or electric shock.



For electrical work, contact the dealer, seller, a qualified electrician, or an Authorized Service Center.

• Do not disassemble or repair the product. There is risk of fire or electric shock.



Always install a dedicated circuit and breaker.

 Improper wiring or installation may cause fire or electric shock



Always ground the product.

. There is risk of fire or electric shock.



Use the correctly rated breaker or fuse.

. There is risk of fire or electric shock.



Do not modify or extend the power cable.

• There is risk of fire or electric shock.



For installation, always contact the dealer or an Authorized Service Center.

 There is risk of fire, electric shock, explosion, or injury.



Be sure the installation area does not deteriorate with age.

 If the base collapses, the air conditioner could fall with it, causing property damage, product failure, and personal injury.



 Sharp edges could cause injury. Be especially careful of the case edges and the fins on the condenser and evaporator.



Do not install the product on a defective installation stand.

• It may cause injury, accident, or damage to the product.



Moisture may condense and wet or damage furniture.

left open.



■ Operation

Do not store or use flammable gas or combustibles near the product.

• There is risk of fire or failure of product.



ACAUTION

■ Installation

Always check for gas (refrigerant) leakage after installation or repair of product.

• Low refrigerant levels may cause failure of product.



Keep level even when installing the product.

• To avoid vibration or water leakage.



Use two or more people to lift and transport the product.

· Avoid personal injury.



Install the drain hose to ensure that water is drained away properly.

• A bad connection may cause water leakage.



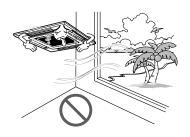
Do not install the product where the noise or hot air from the outdoor unit could damage the neighborhoods.

• It may cause a problem for your neighbors.



Do not install the product where it will be exposed to sea wind (salt spray) directly.

• It may cause corrosion on the product. Corrosion, particularly on the condenser and evaporator fins, could cause product malfunction or inefficient operation.



Installation of Indoor, Outdoor Unit

Selection of the best location

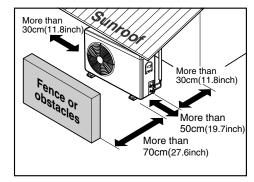
1. Indoor unit

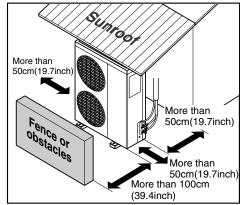
- There should not be any heat source or steam near the unit.
- There should not be any obstacles to prevent the air circulation.
- A place where air circulation in the room will be good.
- A place where drainage can be easily obtained.
- A place where noise prevention is taken into consideration.
- Do not install the unit near the door way.
- Ensure the spaces indicated by arrows from the wall, ceiling, or other obstacles.
- The indoor unit must keep the maintenance space.

© Ceiling Board Ceiling or less Ceiling Board Above 250(98.4) 330(157.5) or less 50(19.7) 50(19.7 // ≈ // Unit:cm(inch) Floor

2. Outdoor unit

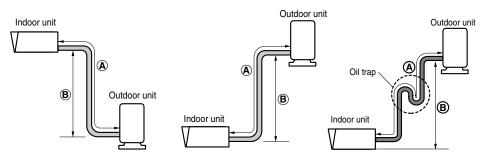
- If an awning is built over the unit to prevent direct sunlight or rain exposure, be careful that heat radiation from the condenser is not restricted.
- There should not be any animals or plants which could be affected by hot air discharged.
- Ensure the spaces indicated by arrows from the wall, ceiling, fence or other obstacles.





3. Piping length and the elevation

Capacity	Pipe Size (Diameter:Ø)		Length A(m)		Elevation B(m)		*Additional
	Gas	Liquid	Standard	Max.	Standard	Max.	refrigerant(g/m)
24k Btu/h	1/2"(12.7mm)	1/4"(6.35mm)	7.5(25')	30(100')	5(16')	15(50')	20(0.22 oz./ft.)
34k Btu/h	5/8"(15.88mm)	1/4"(6.35mm)	7.5(25')	35(115')	5(16')	20(66')	30(0.32 oz./ft.)



If piping length is more than 5m(16.4ft)



CAUTION:

- Rated performance for refrigerant line length of:7.5m(25ft)
- Capacity is based on standard length and maximum allowance length is on the basis of reliability.
- Improper refrigerant charge may result in abnormal cycle.
- Oil trap should be installed every 10 meters(32.8ft)..

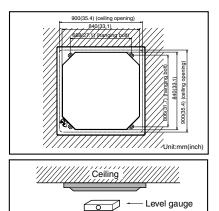
Ceiling opening dimensions and hanging bolt location

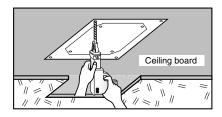
- The dimensions of the paper model for installing are the same as those of the ceiling opening dimensions.
 - Select and mark the position for fixing bolts and piping hole.
 - Decide the position for fixing bolts slightly tilted to the drain direction after considering the direction of drain hose.
 - Drill the hole for anchor bolt on the wall.



CAUTION:

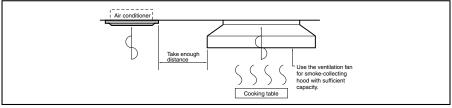
- This air-conditioner uses a drain pump.
- · Horizontly install the unit using a level gauge.
- During the installation, care should be taken not to damage electric wires.





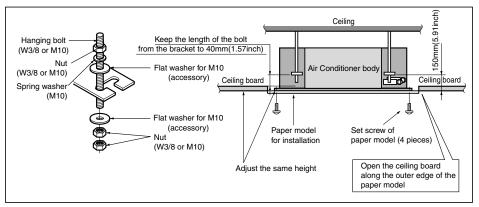
NOTICE

- Thoroughly study the following installation locations:
- 1. In such places as restaurants and kitchens, considerable amount of oil steam and flour adhere to the turbo fan, the fin of the heat exchanger and the drain pump, resulting in heat exchange reduction, spraying, dispersing of water drops, drain pump malfunction, etc. In these cases, take the following actions:
 - Make sure that the ventilation fan for smoke-collecting hood on a cooking table has sufficient capacity so that it draws oily steam which should not flow into the suction of the air conditioner.
 - Make enough distance from a cooking room to install the air conditioner in such a place where it may not suck in oily steam.



- 2. Avoid installing air conditioner in such circumstances where cutting oil mist or iron powder is in suspension in factories, etc.
- 3. Avoid places where inflammable gas is generated, flows in, is stored or vented.
- 4. Avoid places where sulfurous acid gas or corrosive gas is generated.
- 5. Avoid places near high frequency generators.

The Indoor Unit Installation

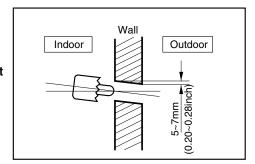


- . The following parts is option.
 - 1 Hanging Bolt W 3/8 or M10
 - W 3/8 or M10 Nut
 - ③ Spring Washer M10
 - (4) Plate Washer M10



CAUTION: Tighten the nut and bolt to prevent unit falling.

• Drill the piping hole on the wall slightly tilted to the outdoor side using a Ø 70(2.76inch) hole-core drill.



Remote Controller Installation

 Although the room temperature sensor is in the indoor unit, the remote controller should be installed in such places away from direct sunlight and high humidity.

Installation of the remote controller

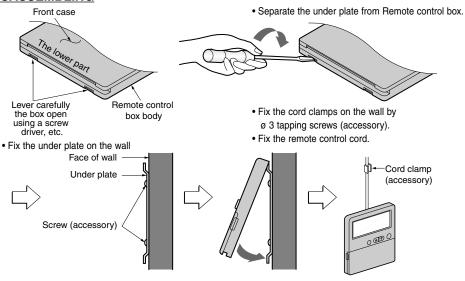
- Select places that are not splashed with water.
- Select control position after receiving customer approval.
- The room temperature sensor is built in the indoor unit.
- This remote controller equipped with liquid crystal display. If this position is higher or lower, display is difficult to see. (The standard height is 1.2 ~ 1.5m(3.9~4.9ft) high)

Routing of the remote controller cord

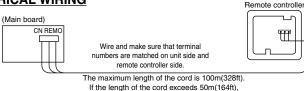
- Keep the remote controller cord away from the refrigerant piping and the drain piping.
- To protect the remote controller cord from electrical noise, place the cord at least 5cm(2.0inch) away from other power cables (audio equipment, television set, etc.)
- If the remote controller cord is secured to the wall, provide a trap at the top of the cord to prevent water droplets from running.

Wired Remote Control Installation

DISASSEMBLING



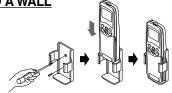
ELECTRICAL WIRING



use a wire size greater than 0.5mm2.

Remote Control Preparation

HOW TO MOUNT ONTO A WALL



HOW TO INSERT BATTERIES

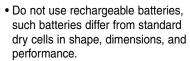
Remove the battery cover from the remote controller.

 Slide the cover according to the arrow direction.

Insert the two batteries.

- Be sure that the (+) and (-) directions are
 - Be sure that both batteries are new.
- Re-attach the cover.
 Slide it back into position.



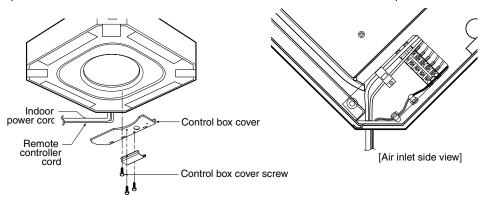




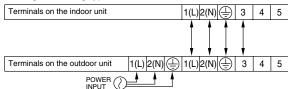
Romove the batteries from the remote controller if the air conditioner is not going to be used for some long time.

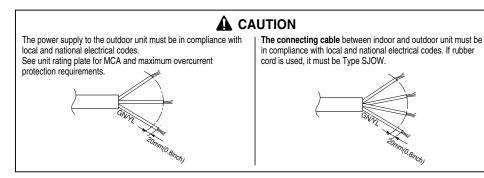
Wiring Connection

• Open the control box cover and connect the Remote controller cord and Indoor power wires.



- 24k/34k Btu/h (1Ø)
- . Cooling & Heating type







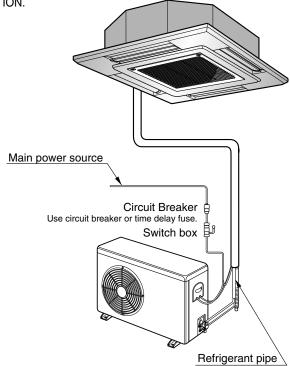
WARNING:

Make sure that the screws of the terminal are free from looseness.

Electrical Wiring

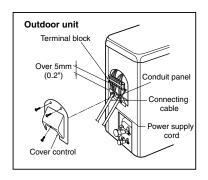
- 1. All wiring must comply with LOCAL REGULATIONS.
- 2. Select a power source that is capable of supplying the current required by the air conditioner.
- 3. Feed the power source to the unit via a distribution switch board designed for this purpose.
- 4. The terminal screws inside the control box may be loose due to vibration during transport. Check the screws for loose connection.
 - (Running the air conditioner with loose connection can overload and damage electrical components.)

5. Always ground the air conditioner with a grounding wire and connector to meet the LOCAL REGULATION.



Connecting the cable to Outdoor Unit

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



Connecting Pipes to the Indoor Unit

Preparation of Piping

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

1. 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 distance.
- Cut the cable 1.5m(4.9ft) longer than the pipe length.

2. 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.

3. 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)

4. Flaring work

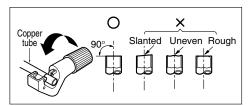
 Carry out flaring work using dedicated flaring tool for R-410A as shown below.

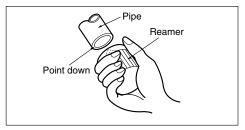
Outside	Α	
mm	inch	mm
Ø6.35	1/4	1.0~1.5
Ø9.52	3/8	1.0~1.5
Ø12.7	1/2	1.0~1.5
Ø15.88	5/8	1.0~1.5
Ø19.05	3/4	2.0~3.0

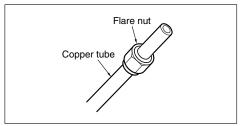
Firmly hold copper tube in a bar(or die) as indicated dimension in the table above.

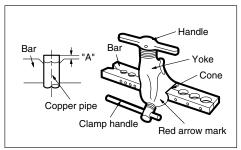
5. Check

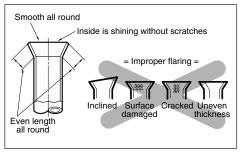
- Compare the flared work with figure below.
- If flare is noted to be defective, cut off the flared section and do flaring work again.





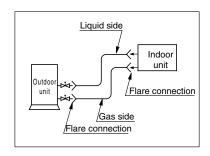






Piping Connection

- 1. Form the piping according to its routing. Avoid bending and bending back the same piping point more than three times. (This will result in hardening the pipe.)
- 2. After deforming the piping, align centers of the union fitting of the indoor unit and the piping, and tighten them firmly with wrenches.
- 3. Connect pipe to the service valve or ball valve which is located below the outdoor unit.
- 4. After completing the piping connection, be sure to check if there is gas leakage in indoor and outdoor connection.



Vacuum drying

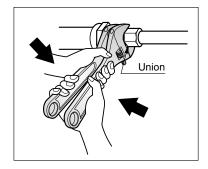
After completing the piping connection, execute vacuum drying for the connecting piping and the indoor unit.

The vacuum drying must be carried out using the service ports of both the liquid and gas side valves.



CAUTION: Use two wrenches and tighten with regular torque.

Flare nut fastening torque				
Ø6.35mm	1/4 inch	13.0 lbf-ft		
Ø9.52mm	3/8 inch	19.5 lbf-ft		
Ø12.7mm	1/2 inch	26.7 lbf-ft		
Ø15.88mm	5/8 inch	34.0 lbf-ft		
Ø19.05mm	3/4 inch	41.2 lbf⋅ft		

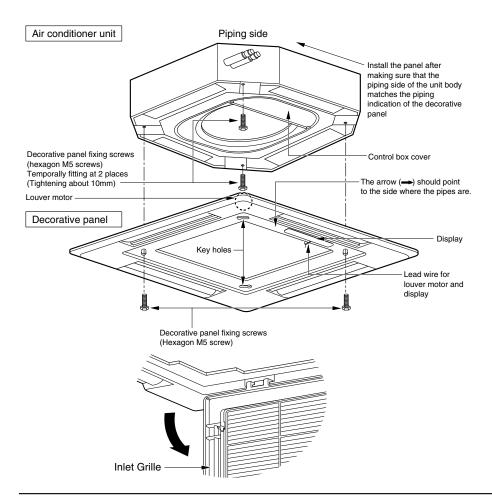


Installation to Decorative Panel

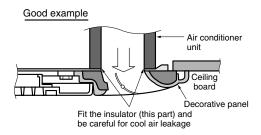
The decorative panel has its installation direction.

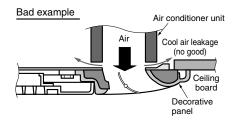
Before installing the decorative panel, always remove the paper template.

- 1. Temporarily fix two decorative panel fixing screws (hexagon M5 screw) on the unit body. (Tighten by amount 10mm(0.39inch) in length.) The fixing screws (hexagon M5 screw) are included the decorative panel box.
- 2. Remove the air inlet grille from the decorative panel. (Remove the hook for the air inlet grille cord.)
- 3. Hook the decorative panel key hole () on the screws fixed in step above, and slide the panel so that the screws reach the key hole edge.
- 4. Retighten completely two temporarily fixed screws and other two screws. (Total 4 screws)
- 5. Connect the louver motor connector and display connector.
- 6. After tightening these screws, install the air inlet grille (including the air filter).







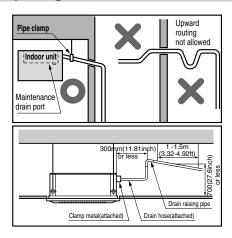


Indoor Unit Drain Piping

- Drain piping must have down-slope (1/50 to 1/100): be sure not to provide up-and-down slope to prevent reversal flow.
- During drain piping connection, be careful not to exert extra force on the drain port on the indoor unit.
- The outside diameter of the drain connection on the indoor unit is 32mm(1.26inch).

Piping material: Polyvinyl chloride pipe VP-25 and pipe fittings

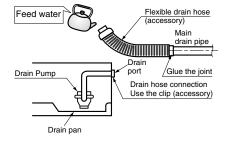
- Be sure to execute heat insulation on the drain piping.
- Install the drain raising pipes at a right angle to the indoor unit and no more than 300mm(11.8inch) from the unit.



Heat insulation material: Polyethylene foam with thickness more than 8 mm(0.31inch).

Drain test

The air conditioner uses a drain pump to drain water.
Use the following procedure to test the drain pump operation:

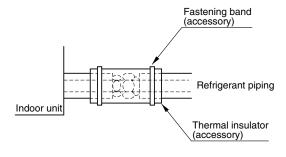


- Connect the main drain pipe to the exterior and leave it provisionally until the test comes to an end.
- Feed water to the flexible drain hose and check the piping for leakage.
- Be sure to check the drain pump for normal operating and noise when electrical wiring is complete.
- When the test is complete, connect the flexible drain hose to the drain port on the indoor unit.

HFAT INSULATION

- 1. Use the heat insulation material for the refrigerant piping which has an excellent heatresistance (over 120°C(248°F)).
- 2. Precautions in high humidity circumstance:

This air conditioner has been tested according to the "KS Standard Conditions with Mist" and con here is not any default. However, if it is operated for a long time in high humid atmosphere (dew point temperature: more than 23°C(73.4°F)), water drops are liable to fall. In this case, add heat insulation material according to the following procedure:



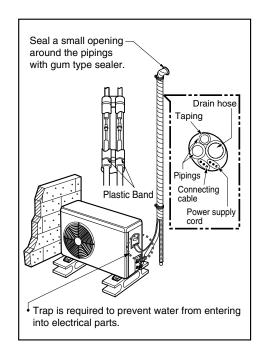
- Heat insulation material to be prepared... Adiabatic glass wool with thickness 10 to 20mm(0.39 to 0.79inch).
- Stick glass wool on all air conditioners that are located in ceiling atmosphere.
- In addition to the normal heat insulation (thickness: more than 8mm(0.31inch)) for refrigerant piping (gas piping: thick piping) and drain piping, add further 10mm to 30mm(0.39inch to 1.18 inch) thickness material.

FORM THE PIPINGS

- 1. Wrap the connecting portion of indoor unit with the Insulation material and secure it with two Plastic Bands. (for the right pipings)
 - If you want to connect an additional drain hose, the end of the drain-outlet should keep distance from the ground. (Do not dip it into water, and fix it on the wall to avoid swinging in the wind.)

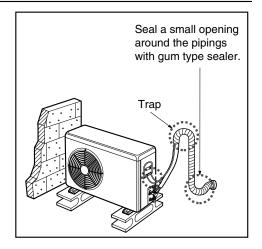
In case of the Outdoor unit being installed below position of the Indoor unit.

- 2. Tape the Pipings, drain hose and Connecting Cable from bottom to top.
- 3. Form the pipings gathered by taping along the exterior wall and fix it onto the wall by saddle or equivalent.



In case of the Outdoor Unit being installed above position of the Indoor Unit.

- 2. Tape the Pipings and Connecting cable from bottom to top.
- 3. Form the pipings gathered by taping along the exterior wall, and make the trap prevent water from entering into the room.
- 4. Fix the pipings onto the wall by saddle or equivalent.



Test running

1. PRECAUTIONS IN TEST RUN

• 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{12kgf.cm}{10.4lbf.in}

M5.....196N.cm{20kgf.cm}{17.4lbf.in}

M6.....245N.cm{25kgf.cm}{21.7lbf.in}

M8.....588N.cm{60kgf.cm}{52.1lbf.in}

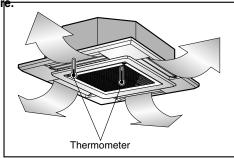
2. Connection of power supply

- 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(14.4°F) (Cooling) or reversely (Heating).





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

- 1) 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.

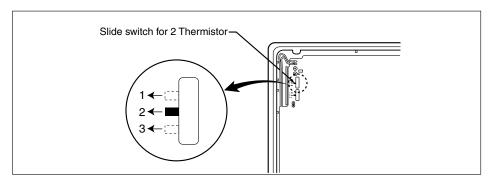
HAND OVER

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

Optional Operation

1. Two Thermistor System

- (1) Open the rear cover of the wired remote-controller to set the mode.
- (2) Select one of three selectable modes as follows.
 - Position 1: The room themperature is controlled by the thermistor of the wired remotecontroller, control the temperature according to the position of wired remotecontroller.
 - Position 2: The room temperature is controlled by the thermistor of the main body.
 - Position 3: The room temperature is controlled by lower temperature between the temperature of main body and of remote-controller sensor.
- (3) Move the slide switch to set position.



(4) Close the rear cover and check if it works normally.



CAUTION:

- Select the position after counselling with a customer.
- In case of cooling mode, room temperature is controlled by the main body sensor.
- To control the room temperature by a wired remote controller, install controller(room temp. sensor) to sense the temperature more accurately.
- · Manufactured in the position 3.

2. Adjusting air volume to the height of ceiling

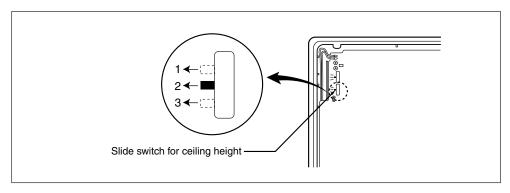
You can choose the RPM(or air volume) of indoor motor according to the height of ceiling to supply the comfortable atmosphere to consumers.

Procedure

1. Choose the selectable position in the table after measuring the height of ceiling.

Ceiling height	Mode of slide switch	Change of air volume	Remark
more than 3.3m(10.8ft)	High Ceiling	Increasing	Manufactured in
2.7~3.3m(8.~10.89ft)	Standard	-	standard mode
less than 2.7m(8.9ft)	Low Ceiling	Decreasing	Standard mode

- 2. In the case of changing the height as "high" or "low", open the rear cover of the wired remotecontroller.
- 3. Move the slide switch to the set position.

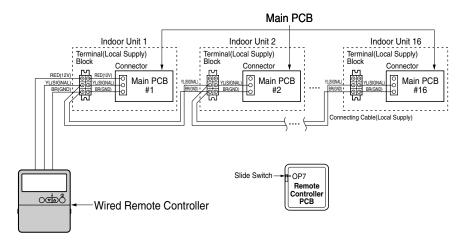


4. Close the rear cover and check if it works normally.

3. Group Control(Optional Wiring)

- You can use a group control operation after connecting the brown and yellow wire of each air-conditioner.
- Remove the resistor "OP 7" in remote controller.
- It operates maximum 16 Units by only one Wired Remote Controller, and each Unit starts sequentially to prevent overcurrent.

Wiring design



Features

- Use Only One Wired Remote Controller with several air conditioners(max. 16 Units)
- Random starting to prevent overcurrent.



CAUTION:

- · Be careful not to exchange the color of wires.
- The maximum length of connecting wire should be below 200m(656ft)(25 Ω) on connecting each units.
- Use a wire more than 0.5mm²

Specifications and performance data subject to change without notice.

HEAT CONTROLLER, INC.

1900 WELLWORTH AVENUE • JACKSON, MICHIGAN 49203
THE QUALITY LEADER IN CONDITIONING AIR

P/No.: 3828A10001Z