CASSETTE TYPE AIR CONDITIONER

Indoor Unit Operation & Installation Manual

HBU-18CF03 HBU-18HF03

No.0010576826A

- Please read this operation manual before using the air conditioner.
- Please keep this manual carefully and safely.

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Disposal of the old air conditioner

Before disposing an old air conditioner that goes out of use, please make sure it's inoperative and safe. Unplug the air conditioner in order to avoid the risk of child entrapment.

It must be noticed that air conditioner system contains refrigerants, which require specialized waste disposal. The valuable materials contained in a air conditioner can be recycled. Contact your local waste disposal center for proper disposal of an old air conditioner and contact your local authority or your dealer if you have any question. Please ensure that the pipework of your air conditioner does not get damaged prior to being picked up by the relevant waste disposal center, and contribute to environmental awareness by insisting on an appropriate, anti-pollution method of disposal.

Disposal of the packaging of your new air conditioner

All the packaging materials employed in the package of your new air conditioner may be disposed without any danger to the environment.

The cardboard box may be broken or cut into smaller pieces and given to a waste paper disposal service. The wrapping bag made of polyethylene and the polyethylene foam pads contain no fluorochloric hydrocarbon.

All these valuable materials may be taken to a waste collecting center and used again after adequate recycling.

Consult your local authorities for the name and address of the waste materials collecting centers and waste paper disposal services nearest to your house.

Safety Instructions and Warnings

Before starting the air conditioner, read the information given in the User's Guide carefully. The User's Guide contains very important observations relating to the assembly, operation and maintenance of the air conditioner.

The manufacturer does not accept responsibility for any damages that may arise due to non-observation of the following instruction.

• Damaged air conditioners are not to be put into operation. In case of doubt, consult your supplier.

• Use of the air conditioner is to be carried out in strict compliance with the relative instructions set forth in the User's Guide.

• Installation shall be done by professional people, don't install unit by yourself.

• For the purpose of safety, the air conditioner must be properly grounded in accordance with specifications.

• Always remember to unplug the air conditioner before opening inlet grill. Never unplug your air conditioner by pulling on the power cord. Always grip plug firmly and pull straight out from the outlet.

• All electrical repairs must be carried out by qualified electricians. Inadequate repairs may result in a major source of danger for the user of the air conditoiner.

• Do not damage any parts of the air conditioner that carry refrigerant by piercing or perforating the air conditioner's tubes with sharp or pointed items, crushing or twisting any tubes, or scraping the coatings off the surfaces. If the refrigerant spurts out and gets into eyes, it may result in serious eye injuries.

• Do not obstruct or cover the ventilation grille of the air conditioner. Do not put fingers or any other things into the inlet/outlet and swing louver.

• Do not allow children to play with the air conditioner. In no case should children be allowed to sit on the outdoor unit.

Specifications

The refrigerating circuit is leak-proof. **The machine is adaptive in following situation**

		Rated	Maximum	Minimum	
	т. 1.	DB °C	27	32	18
Cooling	Indoor	WB °C	19	23	14
coomig	outdoor	DB °C	35	43	10
	outdoor	WB °C	24	26	6
	Indoor	DB °C	20	27	15
Heating	Indoor	WB °C	14.5		
	outdoor	DB ℃	7	24	-7
	0414001	WB °C	6	18	

1. Applicable ambient temperature range:

2. If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similar qualified person.

3. If the fuse on PC board is broken please change it with the type of T 3.15A/250VAC.

4. The wiring method should be in line with the local wiring standard.

5. The power cable and connecting cable are self-provided. The requirement of the power cable:

Model	
HBU-18CF03	H07RN-F
HBU-18HF03	3G 2.5mm ²

The requirement of the connecting cable: H07RN-3G 2.0mm²+2·0.75mm².(For HBU-18HF03); H07RN-F3G 2.0mm².(For HBU-18CF03)

6. The breaker of the air conditioner should be all-pole switch; and the distance between its two contacts should be no less 3mm. Such means for disconnection must be incorporation in the fixed wiring.

7. The waste battery shall be disposed properly.

8. The indoor unit installation height is at least 2.5m.

Safety cautions

Carefully read the following information in order to operate the airconditioner correctly. Below are listed three kinds of Safety Cautions and Suggestions.

WARNING! Incorrect operations may result in severe consequences of death or serious injuries.

CAUTION! Incorrect operations may result in injuries or machine damages; in some cases may cause serious consequences.

INSTRUCTIONS: These information can ensure the correct operation of the machine. Be sure to conform with the following important Safety Cautions.

The Safety Cautions should be at hand so that they can be checked at any time when needed.

If the conditioner is transferred to the new user, this manual should be as well transferred to the new user.

WARNING!

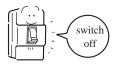
• Don't blow the human body with the cooling air too long, and don't let the room temperature decrease too low either.

Otherwise the one will feel unpleasant or harm ones' health.



• If any abnormal phenomena is found (e. g. smell of firing), please cut off the power supply immediately, and contact the dealer to find out the handling method.

In such case, to continue using the conditioner will damage the conditioner, and may cause electrical shock or fire hazard.



• When need maintenance and repairment, call dealer to handle it.

Incorrect maintenance and repairment may cause water leak, electrical shock and fire hazard.



• Please let the dealer be responsible for installing the conditioner.

Incorrect installation may cause water leak, electrical shock and fire hazard.

• Don't put fingers or any other things into the inlet/outlet and swing louver while the conditioner is in operation.

Because the highspeed fan is very dangerous and may cause injuries.



• Call the dealer to take measures to prevent the refrigerant from leaking.

If conditioner is installed in a small room be sure to take every measure in order to prevent suffocation accident even in case of refrigerant leakage.

• When conditioner is deinstalled or reinstalled dealer should be responsible for them.

Incorrect installation may cause water leaking, electrical shock and fire hazard.

CAUTIONS!

• Conditioner should not be used for any other purpose other than airconditioning.

Don't use air-conditioner for any other special purposes, e.g. the preservation and protection

of food, animals, plants, pecision apparatus as well as work of art, otherwise the qualities of these stuffs may be damaged.



• Don't dismantle the outlet of the outdoor unit.

The exposure of fan is very dangerous which may harm human beings.



• When air-conditioner is co-used with other heat-radiator the frequent replacement of room atmosphere should be required.

Inefficient ventilation may cause suffocation.



• After a long time use of air-conditioner the base should be checked for any damages.

If the damaged base is not repaired, the unit may fall down and cause accidents.



• No goods or nobody is permitted to placed on or stand on outdoor unit.

The falling of goods and people may cause accidents.



• Pets and plants should not be blowed directly in the air flow.

Otherwise will suffer damage.



- Don't operate the air-conditioner with damp hands. Otherwise will be shocked.
- Only use correctly-typed fuse. May not use wire or any other materials replacing fuse, otherwise may cause faults or fire accidents.
- Don't place any burning unit in the air flow of air-conditioner, which may cause incomplete combustion.
- No inflammable spray fluid should be permitted to be placed or used near to airconditioner otherwise may cause fire accidents.
- Air-conditioner should be cleaned only after power supply is cut off to keep from shock or hurt.
- Don't clean air-conditioner with water. Otherwise may cause shock.













• When use the fumigating insecticide don't open air-conditioner.

Otherwise the poisonous chemicals may settle in air-conditioner which harm the health of chemical-allergic people.



Installation

Please ask the dealer or specialist to install, never try by the users themselves. After the installation please be sure of the following conditions.

WARNING !

• Please call dealer to install the air-conditioner. Incorrect installation may cause water leaking, shock and fire hazard.

CAUTION !

- Air-conditioner can't be installed in the environment with inflammable gases because the inflammable gases near to air-conditioner may cause fire hazard.
- **Installed electrical-leaking circuit breaker.** It easily cause electrical shock without circuit breaker.

[Location]

- Air-conditioner should be located in well-vented and easily-accessible place.
- Air-conditioner should not be located in the following places:
 - (a) Places with machine oils or other oil vapours.
 - (b) Seaside with high salt content in the air.
 - (c) Near to hot spring with high content of sulfide gases.
 - (d) Area with frequent fluctuation of voltage e.g. factory, etc.
 - (e) In vehicles or ships.
 - (f) Kitchen with heavy oil vapour or humidity.
 - (g) Near to the machine emitting electric-magnetic waves.
 - (h) Places with acid, alkali vapuor.
- TV, radio, acoustic appliances etc are at least 1 m far away to the indoor unit, outdoor unit, power supply wire, connecting wire, pipes, otherwise images may be disturbed or noises be created.

• Connect earthing wire.

Earthing wire should not be connected to the gas pipe, water pipe, lightning rod or phone line, incorrect earthing may cause shock.



Earthing

• Use discharge pipe correctly to ensure efficient discharge.

Incorrect pipe use may cause water leaking.

• As required, take measures against heavy snow.

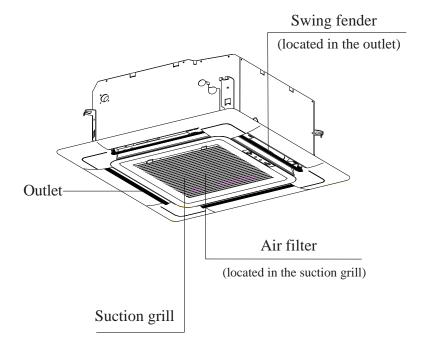
[Wiring]

• Air-conditioner should be equipped with special power supply wire.

[Operating noise]

- Chose the following locations:
 - (a) Capable of supporting air-conditioner weight, don't increase operating noise and vibration.
 - (b) Hot vapour from outdoor unit outlet and operating noise don't disturb neighbour.
- No obstacles around the outdoor unit outlet.

Introduction to Spare Parts

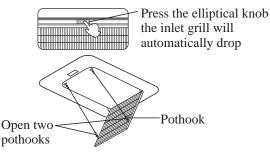


[Clean air filter]

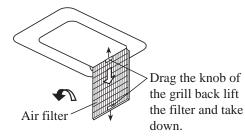
NOTE When having to clean, don't dismantle air-filter,otherwise may cause faults. In the environment where there is too much dust, air filter should be cleaned for more times. (about half a year one time)

1. Open inlet grill

Press the elliptical "PUSH" knob, the inlet grill will automatically drop. (the inlet grill is catched with two pothooks)



- 2. Open two othooks
- 3. Dismantle air filter



4. Clean

CAUTION!

- Don't wash with water over 50°C, to prevent discoloring or deforming.
- Don't dry over fire. Filter maybe burn.

(A) Remove dust with vacuum filter.



(B) Wash with water.

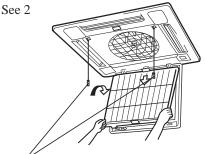
With too much dust, use soft brush and neutral detergent.

Swing off the water, and then place in cool place.



5. Install air filter

- (1) Put filter into protruding parts at the top of the inlet grill.
- (2) Connect the two pothooks with inlet grill



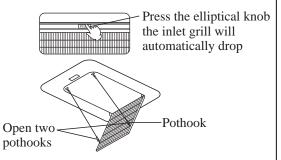
Connet the two pothooks with inlet grill

- 6. Close inlet grill See 1.
- 7. Press the filter signal return key on the

controller. " 🗗 "

[Clean inlet grill]

- 1. Open inlet grill
- Press the elliptical "PUSH" knob, the inlet grill will automatically drop. (the inlet grill is catched with two pothooks)



2. Take off airfilter

See "clean air filter"

3. Take of inlet grill

Open the inlet grill by an angle of 45° , lift up.



4. Clean

CAUTION!

- Don't wash with water over 50°C,to prevent decoloring or deforming.
- Use soft brush, water and neutrul detergent, then swing off the water.





When the filter too much dust

- To spray the special detergent for vent fan or utensils.
- 5. Install inlet grill see 3
- 6. Install air filter see "Clean air filter"
- 7. Close inlet grill see 1

[Clean outlet and shell]

CAUTION!

• Don't use gasoline, benzene, dilutant, polishing powder, or liquid inseticide.

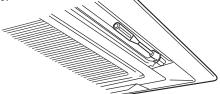
- Don't wash with water over 50°C, otherwise may cause decoloring or deforming.
- Use soft dry cloth to scrub.
- If dust not removed, can use water or neutral detergent.
- If ceiling built-in conditioner's swing plate too dirty, it can be dimantled (as described below) and cleaned.

[Dismantle and install swing plate]

- 1. Fix the swing plate at the bottom.
- 2. Dismantle the swing plate.

CAUTION!

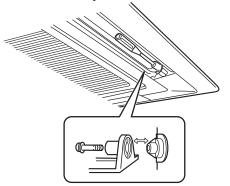
• Use water to clean the plate and don't heavily scrub, otherwise the fine hair may fall off. Unscrew the screw at both ends of the swing plate.



[Dismantle and install swing plate]

3. Install swing plate

Lightly rotate swing plate to insert the ridge at both ends of the outlet into the groove and then screw up.



Seasonal Reserve

Post-season Care

Operate the unit with FAN mode on a fair day for about half
a day to dry the inside of the unit well.Image: Comparison of the power supply switch .Electric
power is consumed even the air conditioner is in stop.Clean the air filter, indoor unit and outdoor unit, and cover
the unit with dustcoat.Image: Comparison of the unit and outdoor unit, and cover
the unit with dustcoat.

Pre-season Care

See that there is no obstacles blocking the air inlet and air outlet of both indoor and outdoor unit to avoid reduce the working efficiency.

Be sure to install the air filter, ensure that the air filter is not dirty. Otherwise may result in machine damages or cause malfunciton due th dust inside the unit

To prevent compressor when start in HEAT mode, please cut in the power supply switch 12 hours before starting run,furthermore, always keep the power supply switch on during the using senson.

NOTE

- 1. The inner part of indoor unit must be cleaned. Consult dealer, because clean must be done by technician.
- 2. In cooling operation, discharging system discharge water in room.

The followings are not malfuncition

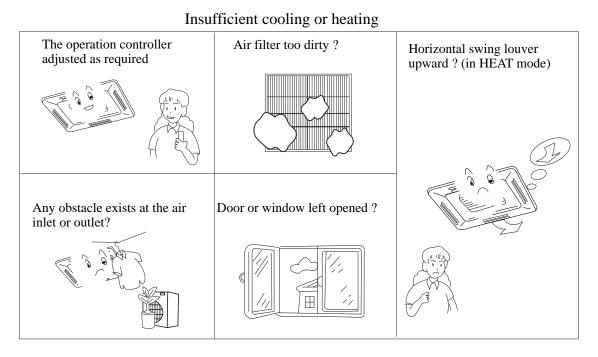
Water flowing sound is heard	When the air conditoner is started, when the compressor starts or stops during operation or when the air conditioner is stopped,it som- etimes sounds " Bi- Bi-" or "Godo-Godo". It is the flowing sound of the refrigerant , not a malfunction.
Cracking sound is heard	This is caused by heat expansion or contra- ction of plastics
It smells.	Air blown out from the indoor unit sometimes smells. The smell results from smells of furniture, paint, tobacco absorbed by indoor unit.
During operation, white fog comes out of indoor unit.	When in COOL or DRY mode, a thin water fog can be seen blown out of unit ,this is the condensed fog because the suddenly cooled indoor air is blown out.
Automatically switch into FAN mode during cooling.	To prevent frost from being accumulated on the indoor unit heat exchanger, it sometimes auto- matically switched into the FAN mode,but it will soon back to the cooling mode.
The air conditioner cannot be restarted soon after it stops. Air conditioner does not start?	This is because of the self-protection function of the system, therefore, it cannot be restarted for about three minutes after it stops. Please wait for three minutes

Air does not blow or the fan speed cannot be changed during drying.	In DRY mode, when room temperature becomes 2 °C higher than temperature setting, unit rill run intermittently at LO speed regardless of FAN setting
Water or vapor generated from the outdoor unit during heating.	This happens when the frost accumulated on the outdoor unit is removed (during defrosting operation). Defrosting operation
During heating, indoor fan is still running even unit is stopped.	To get ride of the excess heat, indoor fan will continue running for a while after unit autom- atically stops.

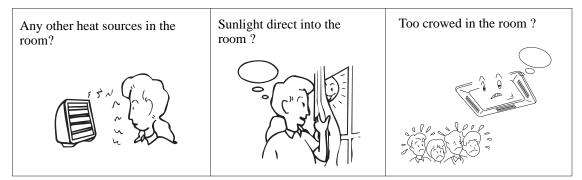
Please check the following things about your air conditioner before making a service call.

Unit fails to start.			
Is the power supply switch on ?	Is city supply power normal ?	Is the earth leakage breaker in action ?	
Power supply switch is not in ON position.		Be sure to turn off the power supply switch immediately and contact the sales dealer.	

When Trouble Happens



Insufficient cooling



Cooled air blown out (when heating)

When the air conditioner does not operate properly after you have checked the above-mentioned items or when following phenomenon is observed, stop the operation of the air conditioner and contact your sales dealer. 1)The fuse or breaker often shuts down.

2)Water drops off during cooling or drying operation.3)There is an irregularity in operation or abnormal sound that is audible.

When Trouble Happens

Trouble display

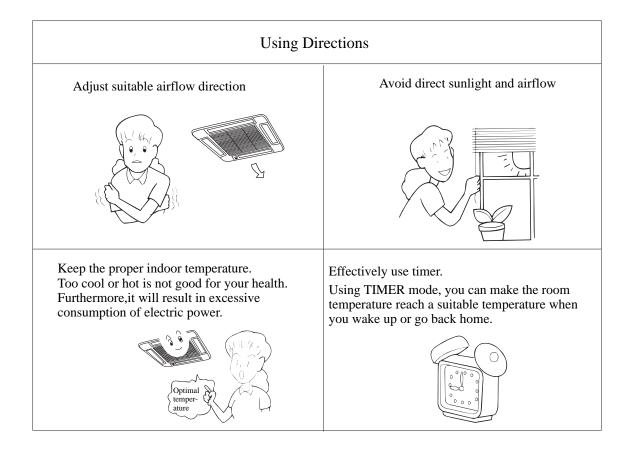
Reason	The phenomenon of indicator light on indoor remote receiver
Room temp. sensor malfunction	"Run" light flashes once
Indoor coil temp. sensor malfunction	"Run" light flashes twice
Drainage system malfuntion	"Run" light flashes ten times
Low pressure protection	"Run"light flashes sixteen times
The exterior alarm signal input	"Run" light flashes eleven times
The defrosting sensor malfunction	"Run" light flashes four times(Heat pump model)
The indoor coil temperature is higher than room temperature when cooling or the former is lower than the later when heating	"Run" light flashes thirteen times

Change-over switch

BM1	(1) OFF (2) OFF		
	(1) OFF (2) OFF (Cooling only unit)		
BM2	(1) OFF (2)ON (Heat pump model)		
	(3) OFF/ON Heat pump model/Cooling only unit		
	(4) ON/OFF Defrost sensor/No defrost sensor		
BM3	OFF		
BM4	OFF		

Customer Need-to-know

- Please install the air conditioner according to the requirements specified in this manual to ensure the air conditioner work well.
- Be careful not to scratch the surface of the case during moving the air conditioner.
- Please keep the installation manual for future reference when maintenance and changing installation place.
- After installation ,please use the air conditioner according to the specification in the operation manual.



ATTENTION: after finishing installation, confirm no refrigerant leakage.

Installation tools

The installation tools listed in the following sheet can be used as required.

- 1. Screw driver
- 2. Hacksaw
- 3. Drill with a diameter of 60mm
- 4. Inner hexagon spanner, shifting spanner
- 5. Spanner (14, 17, 19,24,27mm)
- 6. Pipe cutter
- 7. Pipe expander
- 8. Knife
- 9. Pincers
- 10. Leakage detector or soapy water
- 11. Band tape
- 12. Scraper
- 13. Refrigerant oil

Standard accessories

Following in the list are the accessories supplied with the unit, which can be used as required

No.	Accessory parts	Qty.
1	Remote controller	1
2	Battery	2
3	Wire clamp	4
4	Heat insulation sheathing	1+1
5		1
6	Screw cap	1+1
7	R e m o t e controller bracket	1

CAUTIONS: To ensure proper installation, read "Cautions" carefully before working. After installation, start the unit correctly and show customers how to operate and maintain the unit.

Meanings of Warning and Cautions:

Warning! Serious injury or even death might happen, if it is not observed. Caution! Injury to people of damages to machine might happen, if it is not observed.

WARNING!

- Installation shall be done by professional people, don't install unit by yourself. Incorrect installation will cause water leakage, electric shock or fire.
- Install unit as per the Manual. Incorrect installation will cause water leakage, electric shock or fire accident.
- Be sure to use specified accessaries and parts. Otherwise, water leakage, electric shock, fire accident or unit falling down may happen.
- Unit should be placed on a place strong enough to hold the unit. Or, unit will fall down causing injuries.
- When install the unit, take in consideration of storms, typhoom, earthquake. Incorrect installation may cause unit to fall down.
- All electric work shall be done by experienced people as per eocal code, regulations and this Manual.
- Use exclusive wire for the unit. Incorrect installation or undersized electric wire may cause electric shock or fire accident.
- All the wires and circuit shall be safe. Use exclusive wire firmly fixed. Be sure that external force will not affect terminal bolck and electric wire. Poor contact and installation may cause fire accident.
- Arrange wire correctly when connectin indoor and outdoor power supply. Fix terminal cover firmly to avoid overheat, electric shock or even fire accident.
- In case retrigerant leakage occurred during unit installation, keep a good ventilation in the room.
- Poisonous gas will occur when meet with fire.
- Check the unit upon installation. Be sure there is no leakage. Refrigerant will induce poisonous gas when meet heat source as heater, oven, etc.
- Cut power supply before touching terminal bolck.

CAUTION!

- Unit shall be grounded. But grounding shall not be connected to gas pipe water pipe, telephone line. Poor grounding will cause electric shock.
- Be sure to install a leakage breaker to avoid electric shock.
- Arrange water drainage according to this Manual. Cover pipe with insulation materials in case Earthing dew may occur. Unproper installation of water drainage will cause water leakage and wet your furniture.
- To maintain good picture or reduce noise, keep at least 1 m from T.V. radio, when install indoor and outdoor unit, connecting wire and power cable. (If the radio wave is relatively strong, 1 m is not enough to reduce noise).
- Don't install unit in following places:
 - (a) Oil mist or oil gas exists, such as kitchen, or, plastic parts may get aged, or water leakage.
 - (b) Where there is corrosive gas. Copper tube and welded part may be damaged due to corrosion, causing leakage.
 - (c) Where there is strong radiation. This will affect unit's control system, causing malfunction of the unit
 - (d) Where flamable gas, dirt, and volatile matter (thinner, gasoline) exist, These matter might cause fire accident.
- Refer to paper pattern when installing unit.

Cautions for the installation personnel

• Don't fail to show customers how to operate unit.



1 BEFORE INSTALLATION <Don't discard any accessories until completed>

- Determine the way to carry unit to installation place.
- Don't remove packing until unit reaches installation place.
- If unpacking is unavoidable, protect unit properly.

2 SELECTION OF INSTALLATION PLACE

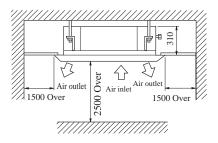
(1) Installation place shall meet the following and agreed by customers:

- Place where proper air flow can be ensured.
- No block to air flow.
- Water drainage is smooth.
- Place strong enough to support unit .
- Place where inclination is not evident on ceiling.
- Enough space for maintenance.
- Indoor and outdoor unit piping length is within limit. (Refer to Installation Manual for outdoor unit.)
- Indoor and outdoor unit, power cable, inter unit cable are at least 1 m away fromT.V. radio. This is helpful to avoid picture disturbance and noise. (Even if 1 m is kept, noise can still appear if radio wave is strong)
- (2) Ceiling height

Indoor unit can be installed on ceiling of 2.5-3m in height. (Refer to Field setting and Installation Manual of ornament panel.)

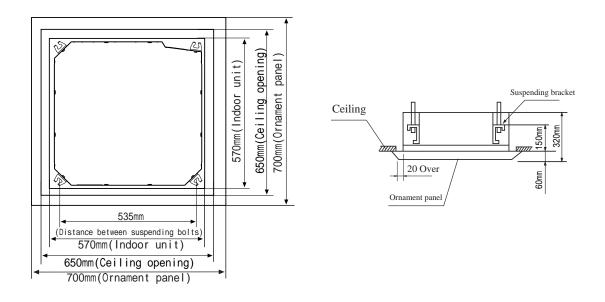
(3) Install suspending bolt. Check if the installation place is strong enough to hold weight. Take necessary measures in case it is not safe. (Distance between holes are marked on paper pattern. Refer to paper pattern for place which need be reinforced)

Installation space



3 PREPARATION FOR THE INSTALLATION

(1) Position of ceiling opening between unit and suspending bolt.



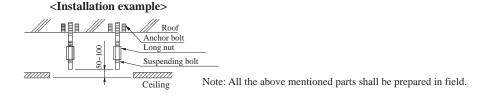
(2) Cut an opening in ceiling for installation if necessary. (when ceiling already exists.)

- Refer to paper pattern for dimension of ceiling hole.
- Connect all pipings (refrigerant, water drainage), wirings (inter unit cable) to indoor unit, before installation.
- Cut a hole in ceiling, may be a frame should be used to ensure a smooth surface and to prevent vibration. Contact your real estate dealer

(3) Install a suspending bolt.

(Use a M10 bolt)

To support the unit weight, anchor bolt shall be used in the case of already exists ceiling. For new ceiling, use built-in type bolt or parts prepared in the field. Before going on installing adjust space between ceiling.



4 INSTALLATION OF INDOOR UNIT

In the case of new ceiling

- (1) Install unit temporarily
 - Put suspending bracket on the suspending bolt. Be sure to use nut and washer at both ends of the bracket.
- (2) As for the dimensions of ceiling hole, see paper pattern. Ask your real estate dealer for details.
 Center of the hole is marked on the paper pattern.
 - Center of the unit is marked on the card in the unit and on the paper pattern.
 - Mount paper pattern (5) onto unit using 3 screws (6). Fix the corner of the drain pan at piping outlet.

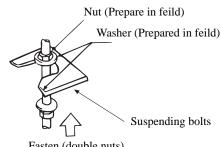
< After installation on the ceiling >

(3) Adjust unit to its right position. (Refer to preparation for the installation-(1))

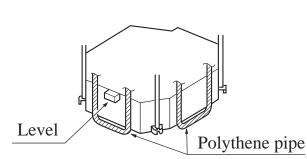
- (4) Check unit's horizontal level.
 - Watert pump and flating switch is installed inside indoor unit, check four corners of the unit for its level using horizontal compartor or PVC tube with water. (If unit is tilting against the direction of water drainage, problem may occur on floating switch, causing water leakage.)
- (5) Remove the washer mounting O, and tighten the nut above.
- (6) Remove the paper pattern.

In the case of ceiling already exists

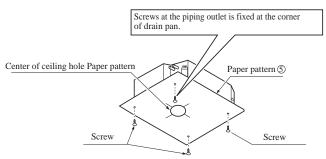
- (1) Install unit temporarily
 - Put suspending bracket on the suspending bolt. Be sure to use nut and washer at both ends of the bracket. Fix the bracket firmly.
- (2) Adjust the height and position of the unit.
- (Refer to preparation for the installation (1)). (3) Proceed with **(3)** and **(4)** of "In the case of new ceiling".



Fasten (double nuts)







[Fix the paper pattern]

5 REFRIGERANT PIPING (As for outdoor piping, please refer to installation Manual of outdoor unit.)

- Outdoor is precharged with refrigerant.
- Be sure to see the Fig.1, when connecting and removing piping from unit.
- For the size of the flare nut, please refer to Table 1.
- Apply refrigerant oil at both inside and outsid of Iflare nut. Tighten it band tight 3-4 turns then tighten it.
- Use torque specified in Table 1. (Too much force may damage flare nut, causing gas leakage).
- Check piping joints for gas leakage. Insulate piping as shown in Fig. below.
- Cover joint of gas piping and insulator (7) with seal.

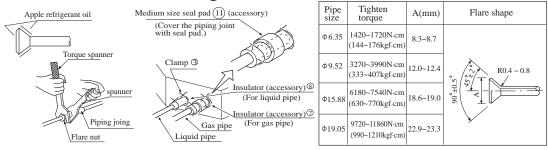
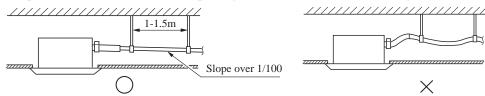


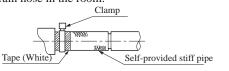
Table 1

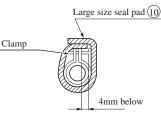
6 INSTALLATION OF WATER DRAINAGE PIPE

- (1) Install water drainage pipe
- Pipe dia, shall be equal or larger than that of unit piping.(pipe of polyethylent; size: 25mm; O.D:32mm)
- Drain pipe should be short, with a downward slope at least 1/100 to prevent air bag from happening.
- If downward slope can't be made, take other measures to lift it up.
- Keep a distance of 1-1.5m between suspending brackets, to make water hose straight.



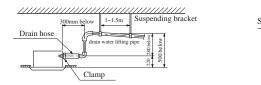
- Use the self-provided stiff pipe and clamp () with unit. Insert water pipe into water plug until it reaches the white tape. Tighten the clip until head of the screw is less than 4mm from hose.
- Wind the drain hose to the clip using seal pad (9). Insulate drain hose in the room.

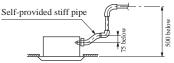




<Cautions for the drain water lifting pipe>

- Installation height shall be less than 280mm.
- There should be a right angle with unit, 300mm from unit.





(Note)

- The slope of water drain hose (1) shall be within 75mm, don't apply too much force on it.
- If several water hoses join together, do as per following proceedures.



Specifications of the water hoses shall meet the requirements for the unit running.

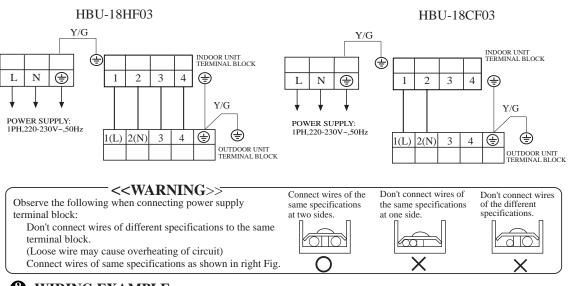
(2) Check if water drainage is smooth after installation.

• Charge, through air outlet or inspecting hole, 1200cc water to see water drainage.

7 WIRING

- All supplied parts. materials and wiring operation must in appliance with local code and regulations. Use copper wire only.
- When make wiring, please refer to wiring diagram also. All wiring work must be done by qualified electricians.
- A circuit breaker must be installed, which can cut power supply to all system.
- Connecting of unit
- Remove cover of control box , connect wires of correct pole to the terminal block inside, please connect the wires in right way.
- Upon connecting, replace control box cover and inlet grill.

Note:remember to connect the blue terminal of indoor unit with the white terminal of outdoor unit properly using the connecting wire in the accessory bag(For heat pump model).Otherwise the "Run" light on indoor remote receiver will flash four times refer to Page.13.



8 WIRING EXAMPLE

As for outdoor unit circuit, please see Installation Manual of outdoor unit. **Note:** All electric wires have their own poles, poles must match that on terminal block.

9 INSTALLATION OF ORNAMENT PANEL

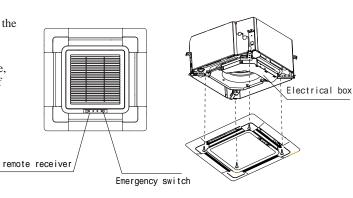
Cautions for the installation

- Be sure to show customers Operation Manual and guide them how to operate unit correctly. Before installation. read also the Installation Manual of indoor unit.
- With this ornament, 2 or 3 air flow direction is not available. Suitable height is 3 m.

Installation of ornament panel

- Check if the indoor unit is horizontal with level apparatus, and also check if the size of ceiling opening is right. Remember to take off the level apparatus before installation.
- Fix the ornament panel onto the indoor unit temporarily with two screws, make sure that the height difference of the indoor unit's two sides should be no more than 5mm.
- Screw other two screws and tighten all of the four screws to fix up the ornamnet panel.

- Connect the wires of swing flap motor on the ornament panel.
- Connect the signal wires.
- Check if the remote controlling is availble, if not,please check if all the connecting of wires is right. Turn off the power for ten seconds,and then try it again.



Pay special care to the following and check after installation			
Item to the checked	Unproper installation may cause	Check	
Is indoor unit firmly installed?	Unit might fall down, make vibration or noise.		
Is gas leakage check performed?	This may lead to gas shortage.	1	
Is unit properly insulated?	Dew or water drop may occur.		
Is water drainage smooth?	Dew or water drop may occur.	1	
Is power voltage meet that stipulated on the nameplate?	Problem may occur or parts got burned.	1	
Is wiring and piping correctly arranged?	Problem may occur or parts got burned.		
Is unit safely grounded?	There might be a danger of electric shock.		
Is wire size correct?	Problem may occur or parts got burned.		
Are there any obstacles on air inlet and outlet grill of indoor and outdoor unit?	This may cause poor cooling.		
Is record made for piping length and refrigerant charging amount?	It is hard to control refrigerant charging amount.		

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