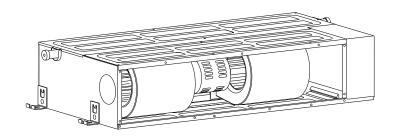


INSTALLATION MANUAL DUCT TYPE



MODEL:

OSH-B18HRK3/OSH-OU18HRK3 OSH-B24HRK3/OSH-OU24HRK3 OSH-B36HRK3/OSH-OU36HFK3 OSH-B48HRK3/OSH-OU48HFK3 OSH-B60HRK3/OSH-OU60HFK3

This instruction manual contains important information and recommendations that we would ask you to comply with to obtain best results from air conditioner.

Thank you once again.

PRECAUTION

- Read the following "PRECAUTIONS" carefully before installation.
- The air conditioner must be installed by professional technicians.
- The installation should be done in accordance with the manual.
- Please forgive delay of notice in case of any advancement.

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Usage

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USAGE

PRECAUTIONS

- Read the following " PRECAUTIONS" carefully before installation.
- The caution items stated here must be followed because these important contents are related
 to safety. The meaning of each indication used is as below.
 Incorrect installation due to ignoring of the instruction will cause harm or damage, and the
 seriousness is classified by the following indications.

(! WARNING	This indication shows the possibility of causing death or serious injury.
! CAUTION	This indication shows the possibility of causing injury or damage to properties only.

Please read the lable on the principal unit carefully.

In case of such abnormal situations as abnormal noise, smelliness, smoke, temperature rising, electrical leakage, fire, please cut off the electric supply quickly and contact the dealer.



Engage dealer or specialist for installation. If installation done by user is defective, it will cause water leakage, electrical shock or fire.

Professional persons are not allowed to dismantel the unit, otherwise, accident or damage may occur.

Please do not use ort store such flammable gas or liquid as hair styling jelly, oil paint, petrol in case of fire.

The major electrical supply should be installed out of children touch.

Please do not spray water or other liquid in case of danger.

Please do not touch the unit with wet hands in case of electric shock.

Please cut off the electrical supply in lightning and rainy days, othwewise, danger or damage may occur.

Please cut off the major electrical supply when it is not used for a long time to avoid accidents.



Never put hands or objects into the air inlet and outlet of the indoor and outdoor unit, in case the fan with high speed may hurt you.

The baffle of the outdoor unit is not allowed to be dismantled because the fan with high speed may cause injury.

Do not let the indoor unit or remote controller be affected with damp, otherwise ,Short circuit or damage may occur.

Make sure the is totally closed after the ash screen is cleaned.

Do not let it open for a long time in case of any danger.

• It suits for 18000~60000Btu/h cooling and heating capacity type. When the outdoor temperature is lower than 6°c, the system shuould be electrified over 12 hours.

Descrition of symbols

Symbol	Meaning
Warning	Mistaken operation/use may cause death or serious injury.
Notice	Mistaken operation/use may cause injury or damage of properties only.

- 1. Injury means causing harmed, burned, electrical shocked, but not serious for hospitalization.
- 2. Damage of property means disrepair of property, material.

Description of icon

Icon	Meaning
0	Contents prohibited are represented by nots or figures.
0	Execution in force. Iterms forcibly executed are represented by notes or figures.
	Notices (including warning)items noticed and warned are represented by the notes or figures.

Warning

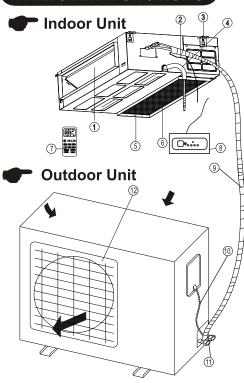
\bigcap	9	Do not attempt to install this unit by yourself. This unit requires installation by qualified
	Professional installation	persons, or will cause users harmed, burned electrical shocked.
	Confirm grounded wire	Confirm if it is grounded properly. If not, it may cause electrical shock.
	Ω	When installing in air conditioner a small room, measures should be taken to avoid
	Measures of no lessthan	suffocation, while the leakage of refrigerant accumulates the limited density.
	limited density	Consukt our dealers for details.

Prohibition	Never put hands or objects into the air outlet/inlet of indoor or outdoor units. These units are installed with a fan running at high speed. To touch the moving fan will cause serious injury.					
When exceptions occuring, such as smelling odors, power should be						
Poweroff	switched offat once and contact our dealers , or may cause person injury or fire					
0	Do not install the AC in the place where flammable gasis prone to leaking. If flammable gas					
Confirm	leaks and surrounds the AC, fire may be caused.					

Insta- Ilation	Confirm Location	leaks and surrounds the AC, fire may be caused.
	Confirm Fixture	Ensure that the base of installation is firm. If not firm, the accident of AC's crush may occur.
	Confirm electric leakage protector	Ensure that electric system has installed creepage protector. Lack of creepage protector may cause electric shock or fire.

	Check installation base	Please check the base of installation is firm and perfect when running for a long time. If not, the accident of AC's crush may occur and cause injury or death of persons.
Usage	Disconnect manual switch	Please disconnect manual switch to stop running while sweeping. If not, high speed fan may cause damage.
	prohibition	Please choose the proper fuse. It is prohibited to use substitution or it may cause obstacle or fire.
	Prohibition	Prohibit spraying flammable spray to outdoor unit, or may cause fire.

PARTS AND FUNCTIONS



- 1 Air Outlet
- (2) Refrigerant Pipe Junction
- (3) Installation Panel
- (4) Drainage Plpe
- 7 Remote controller
- 6 Air Return
- (8) Remote controller receiver
- 6 Filter
- Refrigerant connection pipe
- 10 Connecting cord
- 11) Stop valve
- (12) Air Outlet grille

Requirements

- ★ Do not run the unit until it has been electrified for 2 hours. Besides, if the unitstops for a day and night, please do not disconnect the power.
- ★ Attention not to block the air outlet and inlet. It may cause the performance decreasing or start the protection device so that the unit cannot run.

DISPLAY PANEL

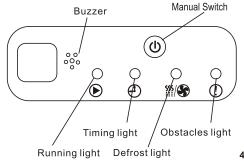
Infrared signal receiver: receive the signal from the remote controller.

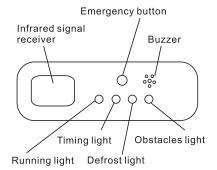
To make your remote controller operation more efficient, please let remote controller emittor aim at infrared signal receiver.

Buzzer: firstly power supplied or any of remote controller operations will make the buzzer sound once. Some obstacles occuring in the system will be recognized by intelligent recognition system of unit lighting on the DISPLAY PANEL flashing show the type of obstacles.

Note: Different models correspond to different display panels.

DISPLAY PANEL





3 minutes protection

Restart the unit at once after stopping or turning it off, compressor will not operate in the first 3min ,this
phenomena is one of system functions(self-protection).

Feature of heating

- When indoor unit operate in the heat mode, no heat air blows out till3-5min after heat exchanger being warm
- The outdoor fan motor may stop runnig during operation if outdoor temperature is high.

Defrost in the process of HEAT mode

Under the condition that indoor unit operate in heat mode and heat exchanger of outdoor unit frosts.

The system will defrost for 2-10 minutes to improve heat effect, at this time drain water from outdoor unit.

• During defrosting, outdoor and indoor fan motors stop running.

Air conditioner operation conditions

The unit can be operated properly within temp range listed below.

Coo- ling Heat- ing	Outside temp	-15°C above 43°C below
	Room temp	17°C above
	Room humidity	If the AC runs for a long time in COOL mode at air relative humidity higher than 80%(doors or windows opened), dew may generate and drip near air outlet.
	Extertal temp	-7°C above 24°C below
	Room temp	31℃ below

The protective device maybe trip and stop the unit beyond temp range listed above.

Protection Device (high-pressure)

It refers to the device which stop automatically when the air conditioner is enforced to run. The indicator light still flashes when the protection device is on though running has stopped. the checking dictator lamp flashes when

protection device is on. Protection device may start under situations as follows

- Refrigeration is running.
- The air inlet and outlet of the outdoor unit are choked.
- Strong wind goes on blowing outlet of the outdoor unit .
- ▲ Heating is running
- Ash filter of the indoor .unit is overwhelmed with ashes and garbage.
- The air outlet of the indoor unit is choked.

When the protection device is running, please cut off manually operated mains switch and restart the unit after the troubles are solved.

CUT OFF ELECTRICITY

- If cut off the electricity during operation, all the running will be stopped.
- Electrify and restart the unit after the electricity is cut off, the running indicator lamp of the indoor is
- flashing to inform you.
- Restart the unit till the power recovers.

When the mistaken action occur during operation, please cut off the manual switch in case the mistaken action occur during operation which is caused by thunder and wireless automobile. After turn it on again, restart the unit.

HEATING CAPACITY

- Heating is a way that heat pump absorbs heat from outside and release inside.
- Once the outside temperature decrease, the heating capacity also decrease.
- It is suggest that other heating equipments be used together when outdoor temperature is lower.
- The result will be better if the electric auxiliary heater is purchased additionally especially in the low temperature district.

OPERATION AND PERFORMANCE

Checks Before Operation

- Check if the ground wire is connected well.
- Check if the air filter is installed well.
- You must clean the filter and then start the air conditioner when it is not used for a long time.
- Check that the air outlet or inlet of outdoor unit is not blocked.

Best Operation

Notice the following items to ensure the system operate at best. The specific operation ways refers to the corresponding content.

Set the temperature properly to make the environment comfortable; avoid overheating or overcooling.

Use window curtain or shutter to avoid penetrated sunshine during COOL mode running.

Please close the door and window. If they are open, the cooling & heating efficiency will be worse.

Please preset the running timer by pressing TIMER key of the remote controller.

Do not put objects near the air outlet & inlet ,otherwise air conditioner efficiency will be lower and even the system will stop running.

The cooling & heating result will be influenced if the air filter is blocked. Please clean the air filter periodically.

Safety Rule

NOTICE The unit must be installed by professional technician and users cannot installed by themselves.

Otherwise it may damage the air conditioner or it is dangerous to you.

For proper performance, please refers to the installation manual otherwise it may cause self-protection or dripping, the cooling & heating result reduce.

Please adjust room temperature properly, especially when the old man, children, patients stay at home. Lightening and other electromagnetic radiation may cause ill effect. If it is, please plug off the power

WARNING The power plug should not be install at the places where the children can touch, in case they play with the power plug.

> In the stormy weather, please disconnect the power switch, otherwise lightening may damage it. If the unit not be used for a long time, please cut off the power.

Before cleaning and maintaining the unit, it is safe to disconnect the power switch.

- DANGEROUS Never put hands or objects into the air outlet of indoor or outdoor unit. Otherwise, the moving fan with high speed will cause serious injury.
 - Do not touch the louver when it is running or it may clamp your fingers or damage the louver accessory.
 - Never dismantle the air-in grille of the outdoor unit. To touch the moving fan at a high speed will cause serious injury.
 - It is dangerous for children to play with the air conditioner.
 - Do not damper the indoor unit and remote controller. Or it may be short circuit and even fire.
 - Do not use the flammable gas or liquid, such as styling gel, paint, petrol etc. Otherwise fire may take place.
 - If abnormal situation happens, such as abnormal noise, smell, smog, temperature rising, electricity leaking. Please cut off the power immediately and contact with dealers. Do not attempt to repair the air conditioner yourself.

MAINTENANCE

Malfunction & Handling Ways

Other unusual situation happens.

If the following situation happens, please stop running the air conditioner and cut off the power and contact with dealers. " Malfunction " words is shown on the wire controller and give off the sound of buzzer. The fuse breaks down or the breaker makes a mistake frequently. Malfunction External material or water enter into the inside of indoor unit. Type Remote controller fail to receive or the switch operation is abnormal.

If the following situation appears, the user should check according to the following request. If the problem cannot be solved please contact the dealers.

Malfunction	Reason	Dealing Ways				
	Power is cut off.	Wait until the power is on.				
	Power switch cannot be connected.	Get through the power switch.				
It cannot start	Fuse of power switch breaks down.	Replace the fuse				
	The battery of remote controller is exhausted.	Replace the battery				
	The time of starting the machine has not got.	Wait or cancel the TIMER setting				
Air is blown out	Temperature is not set properly.	Set the temperature properly and adjust the temperature lower or higher.				
but the cooling	The air filter is blocked by dust.	Clean the air filter.				
& heating result is not good.	The air inlet and outlet of indoor or outdoor unit are blocked.	Clean up the blockage.				
is not good.	Open the door and window	Close the door and window				
Air is blown out but cannot be	Air outlet and inlet are blocked by objects.	Eliminate the blockage first, then operate again.				
cooling & heating completely.	Three minutes protection of compressor	Wait				
completely.	The temperature setting is not proper.	Set the temperature properly.				

Note: To avoid danger, do not replace the power wire by yourself; do not repair the air conditioner yourself.

These are not failures

Phenomenon following do not indicate any trouble

1.Usual protection

Protective function of compressor.

- Compressor can not start within 3 minutes after it stops.
 - Cold air outlet prevention(In heating mode).
- The indoor fan cannot start if indoor heat exchanger can not reach certain temperature.
 - (1)Heating starts just now.
 - (2)Defrosting is going on.
 - (3) Heating in low temperature (temperature is too low outside).

2.Defrosting

In heating mode, the outdoor heat exchanger may be frosted because the outside temperature is too low. The frost cover may ill effect normal heating effect for AC. Thus, AC will automatically defrost after heating mode is running for a while. In the process of defrostation, the compressor is running with the indoor and outdoor fans stop.

3.Indoor unit emit water fog

When the relative humidity is too high in cooling or dehumidity mode, the unit may emit gas like fog because of high relative humidityand great temperature drop.

When the AC return to heating after defrosting, water from defrosting may be evaporated and blown out.

4.Noise

When air conditioner is in operation or stops, sound like flowing water occurs and begins louder after 2-3 minutes.

This is the sound comes form refrigerant flowing or condensed draining water.

When AC is in operation or stops zizi sound occur due to little dilatability of heat exchange for temperature changing.

5.ERRATIC SMELL from indoor uint

The indoor unit absorbs the odor of all the matters in the room and emits it in operation Cooling or heating (cooling type has no such function)converts into air flowing.

When the room temperature reaches the default value, the outdoor unit will automatically stop its operation leaving air flowing only, thus, energy can be saved.

The outdoor unit will not restart until the room temperature rises (cooling mode) or lowers (heating mode) to some extent.

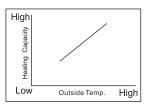
6. Condensation appears on the panel of the indoor unit

When it is overly humid in the room (beyond 80%), startigcooling or drying mode may bring out condensation around the air outlet of the panel.

7. Air outlet temperature of HEAT mode is not comfortable.

Air conditioner absorbs caloric from outdoor and releases to indoor in order to heat up the room air during heating process. This is the principle that the heat pump works.

Heating absorption decreases when the external temperature is reduce. Its heating ability is therefore lower (refers to the right diagram). At the same time, temperature difference of indoor &outdoor strengthens and then the heating charges is heavier. If the air conditioner operation cannot attain a satisfactory result, We suggest that you can use other heating device for assistant.



Cleaning

of shape.

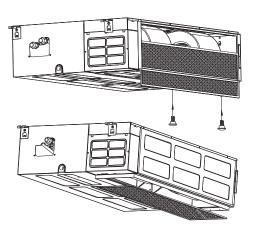
Warning: please shut down the unit and cut off the power before cleaning for safe.

Clean the filter

Clean the unloaded filter with vacuum cleaner or water.

Scrub with neutral detergent if the filter is too dirty. Do not wash with hot water (about above 50 °C), in case it is out of shape.

- Place it on a ventilated place and cannot be under the sunshine directly after washing lest it is out
 - For your purchasing unit is a rear ventilated one, please remove the filter fixed screws
 (2screws) and take down the filter a way from the unit.
- For your purchasing unit is a descensional ventilate done, please push the filter up slightly to let the position retainer escape away from the flange fixed holes, and take off the filter according to the arrow direction shows in the



Maintenance

1. Please do the following job well if the air conditioner is not used for a long time.

In order to dry the unit completely, set the FAN mode and runsf or 3-4hours.

Shut down the air conditioner and cut off the power supply.

2. When used again after the unit stops for a long period:

When cleaning the filter and indoor unit, you must stop the unit and cut off power supply. Wipe the indoor uni twith soft cloth. It is forbidden to posh the machine with petrol, benzene, lye, powder, detergent, insecticide etc., Which will damage the unit.

Ensure air in let and outlet of indoor and outdoor unit are not blocked by rubbish.

Check whether the grounded wire is loose and flexible, then connect the power.

After-salesservice

When your air conditioner can not run in order, please shut down the machine and cut off the power supply immediately. Then contact dealers.

TROUBLE SHOOTING

Please refer to the following table before declaring repair service.

		T
+		
	White fog or water	Begin defrosting and stop fan motor running
	appear.	Electromagnetic valve make sounds while defrosting begins or en
	● Zizi sound often occur	When air conditioner is in operation or stops, sound like flowing water occurs and begins louder after2-3 minutes. This is the sound comes from refrigerant flowing or condensed draining water.
		When air conditioner is in operation or stop, su sound occur due to little dilatability of heat exchange for temperature changing
	● Bad smell	Dust from wall carpet ,clothes, cigarette, cosmetic, etc attached o the air conditioner.
	Running lamp flashing	Switch on the power supply after power failure, running lamp is flashing
	Non priority or waiting lamp flashs	It does not run in the mode of cooling due to other indoor units in the mode of heating
		When the set mode is contrary to default mode (heating)
		Fan stops for preventing cool air blows out.
		 When used as multi-drive unit, indicator lamp flashing and running stop.
	Auto stop or auto start	Whether use TIMER ON button without intention
Ι.	•	Whether power fail;
1	- No rupping	whether manual switch is on;
	No running	whether the fuse breaks;
		whether the protector starts
		whether setting time of "TIMER"approach
		Whether air inlet or outlet of outdoor unit is blocked
	 Cooling&heating 	Whether door or windows are open
	effect is not good.	Whether the filter is accumulated by dust
		Whether the position of loaver is proper;
		Whether FAN mode is set too low or whether MODE is setto END
	AFI	Whether the temperature is set properly.
- 1	W/: Sal.)	If choose the COOL and HEAT at the same time.

INSTALLATION

Important safety information

Please go through all the IMPORTANT SAFETY INFORMATION before installation.

Please install according to the installation manual.

Please read the lable on the machine carefully before installation.



Users must engage dealer or authorized specialist for installation.

Any structure modification must comply with specific construction standard.

The unit must be hung over ceilings that can bear its weight.

Power cord that is prescribed or complied with the requirement should be used.

All the electric manipulation should be done by authorized specialists according to current specification or this installation manual.

Please do not connect electric supply before installation is finished.

Please assure good ventilation when refrigerant leaks to prevent its density going beyond safety standard.



After the air conditioner is finished, please explain to the user about right ways of usage and maintenance. Besides, ask the user to read and keep the manual carefully.

Keep away from place with volatile oil (including engine oil) or vitriolic mist, otherwise, the inner component willbe damaged with the performance greatly impaired.

Dimension of the fuse must be no less than the prescribed capacity.

Make sure an earthing breaker is installed.

Make sure a earth wire is installed.

If this air conditioner is installed on the mental part of architecture, electric installation must be done in accordance with concerning technology standard.

PREPARATION BEFORE INSTALLATION

Key points of inspection

(INSTALLATION)

• Be sure of machine type and name to avoid wrong installation.

Refrigerant Pipe

- Refrigerant pipe diameter must comply with the prescription.
- Refrigerant pipe must be heat-insulated.

Air purging

 Vacuum pump or refrigerant jar should be used in air purging of the connection pipe or refrigerant can be used at the gas side.

Charge additional refrigerant

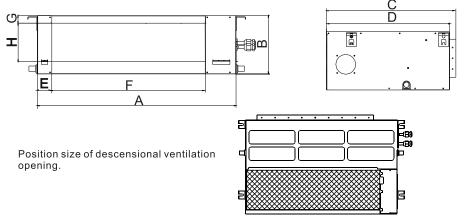
- The refrigerant charge volume is based on 5m connecting pipe. If the connecting length is longer than 5m,please refer to the followings.
- please keep record of additional refrigerant charge, pipe length and height drop of indoor&outdoorunit (stick inside right panel)

Electric wiring)

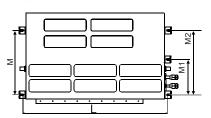
- Choose the electric capacity and circuit according to the design manual. The diameter of the electric supply line must be more than that of ordinary electromotor.
- Connect the electric supply after air is vacuumed.
- Wiring Specification

Figure of body size

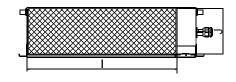
1. The positioning of celling hole, indoor unit and hanging screw bolts.



Size of mounted hook

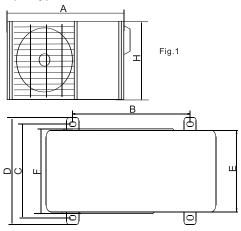


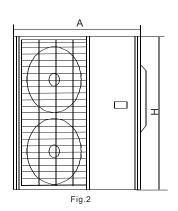
Air inlet size



	Outline dimension			Air outlet opening size				Air retu opening						
	Α	В	O	D	Е	F	G	Н	-	J	اـ	М	M1	M2
9/12D5	700	200	447	450	45	510	17	140	570	172	738	298	158	/
18D5	920	200	447	450	45	730	17	140	790	172	958	298	158	/
18D2	920	210	635	570	65	713	35	119	815	200	958	427	240	/
24D2	920	270	635	570	65	713	35	179	815	260	958	427	/	427
36D2	1140	270	775	710	65	933	35	179	1035	260	1184	541	/	541
48/60D2	1200	300	865	800	80	968	40	204	1094	268	1238	585	1	585

Split type outdoor unit





MODE	Α	В	С	D	Е	F	Ι	REMARK
09/12	760	506	290	330	244	246	550	Fig.1
18	780	521	290	328	288	290	605	Fig.1
24	900	753	349	399	304	315	650	Fig.1
36	900	675	398	433	358	360	805	Fig.1
48/60	940	600	375	410	338	340	1250	Fig.2

Choose installation location

- 1. A place where there are sufficient space for repair
- 2. Hung ceiling that can bear the weight of the machine.
- 3、A place without air inlet and outlet is not hindered and without influence from outdoor air
- 4. A place without heat source like smoke, fire or toxic pullution.
- 5. A place where air flow can be transmitted everywhere in the room.
- 6. A place convienient for installation.

○ OUTDOOR UNITS

- 1.A place where there is sufficient space for installation and repair.
- 2.A place where the air inlet and outlet are not hindered, without strong air flowing.
- 3.A dry and ventilated place.
- 4.A place where the overhanging is leveland bear the weight of the outdoor unit, without much noise.
- 5.A place where neighbours are not annoyed by noise and exhausted air.
- 6.A place without leakage of flammable gas.
- 7.A place convenient for installation.

Caution: (location in the following places may cause malfunction of the machine).

- 1.A place where there is flammable gas leakage.
- 2.there is salty air surrounding(near the coast)
- 3. there is caustic gas (the sulfide, for example) existing in the ai.
- 4.a place where can not bear the weight of the machine
- 5.in kitchen where it is full of oil gas.
- 6.there is strong electromagnetic wave existing.
- 7.there is acid or alkaline liquid evaporating
- 8.a place where air circulation is not enough.
- 9. other special surroundings.

OUTDOOR UNIT INSTALLATION

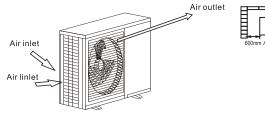
Move outdoor unit in

- 1. Please use 4 pieces of 6mm steel wire hanging the outdoor unit up and move in.
- 2. To avoid the outdoor unit is out of shpe, please add the baffles at the surface of outdoor unit where the steel wire rope may touch.
- 3.after moving, please remove the tray wood on the bottom.



INSTALLATION SPACE

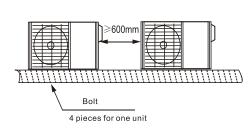
- After leaving repair space as illustrated below, install the outdoor unit with power supply equipmentinstalled at the side of the outdoor unit. Please refer to ELECTRIC SUPPLY INSTALLATION MANUAL for the installation method.
- 2. Please make sure necessary space for installation and repair.

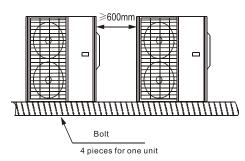




No obstruction from the air outlet of outdoor unit

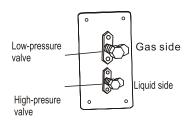
At least 600mm space must be left between outdoor units as the sketch indicated.





Refrigerant pipe

- 1. The junction is inside the cover of the right panel, please take off the cover first.
- 2. The pipe gets out of the side gap of the cover.
- 3. After connecting from the valve gap, reinstall it from left, right or backwards for installation.
- 4. The right picture is the sketch map of valve installation board of outdoor. Gas-side(low pressure) is the one upward, liquid side is the one downward.



INSTALLATION

Pre-installation precautions

Please confirm that the installation personnel are qualified in relevant installation service. If the air conditioner was installed by persons without special skills, normal operations would not be ensured, even the personal and estate safety would be affected.

User guideline

- The user's installation site should be provided with regular power supply in conformity with that indicated in nameplate of the air conditioner, and its voltage should be within a range 90 %~ 110 % of the rated voltage value
- Power circuit should be equipped with protector, such as electricity leakage protector or air switch, which should possess a capacity greater than 1.5 times the maximum current value of the air conditioner.
- Never fail to adopt personal circuit and effectively-grounded socket compatible with the attached plug of the air conditioner. The attached plug is equipped with grounding pin, and it must not be modified as desired.
- Please adopt the fuse or circuit breaker prescribed in Installation Instructions.
- Only qualified electrician is allowed to carry out wiring tasks strictly according to electric safety requirements.
- Do ensure good earth of air conditioner, in other words, the main power switch of air conditioner must be connected to reliable ground wire.

Precautions

- The air conditioner should be installed securely; otherwise poor installation may lead to abnormal noises and vibration.
- Outdoor unit should be installed at a spot ensuring that its air outlet noises and hot exhaust will not violate your neighbors.

Unit body installation

Please confirm the indoor unit dimension according to the picture below M10 whorl is to be installed.(4 sets)

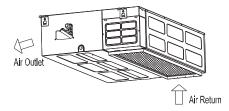
- ♦please refer to the following for the center distance between the bolts
- ◆M 10 whorl is used
- ◆please consult professional for your specific ceiling arrangement.
- 1. Dismantle scale of the ceiling.....please keep ceiling its level. Strengthen the beam to avoid vibration.
- Break the beam of the ceiling
- 3. Strengthen the breaking point of the ceiling and reinforce the ceiling beam.
- After the main body hanging is finished, arrangement of pipe and line will be done in the ceiling. The direction of the pipe is determined after the installation location is chosen. If the ceiling has existed, please arrange the refrigerant pipe, drainage pipe, indoor and outdoor connecting line.
- Installation of the hanging screw bolt

INDOOR UNIT INSTALLATION

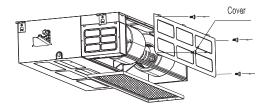
Choice of air return ways

This indoor unit is fitted with downward air return, which can be change to its backward counterpart if necessary. Please follow the steps below(2-5) to change it into the mode of air return backward(6).

1.Air return downward

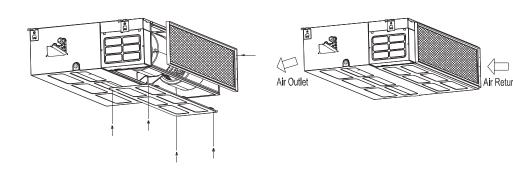


2. Loose the nut and dismantle flannel plate and filter; Loose the nut dismantel the back over.



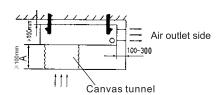
3. Install the flannel plate and filter at the backside; Install the cover to the downside.

4. Air return backward.



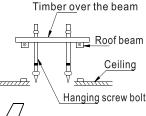
Installation Space

Ensure sufficient space for installation and repair.



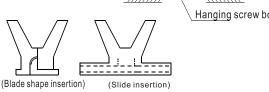
Wooden construction

Put the square timber over the roof beam, then install the hanging screw bolt.



New concrete bricks

Inlaying or embedding the screw bolts



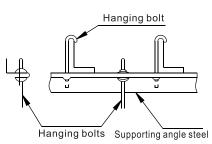
Finished concrete bricks

Install the hanging hook with expansible bolt into the concrete deep to 45-50mm to prevent loose.



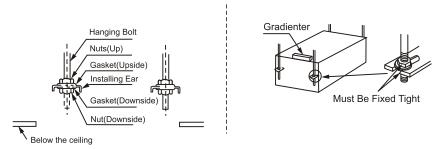
Steel roof beam structure

Make use of steel in the ceiling or supporting angle steel..



Hanging &Installation of Indoor Unit

Adjust the nut position while the gap between gasket(downside) and ceiling should be confirmed according to actual situations.

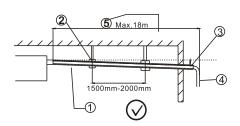


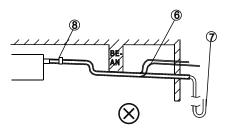
Hang the nut inside the U slot of the installation panel. To confirm level degree with gradienter . (Leaning downside toward non-draining side is prohibited)

DRAINAGE PIPE CONNECTION

Drainage pipe installation

- 1. Use PVC pipe with 30 inner diameter to lay the drainage pipe and make sure downward slope is more than 2/100.
- 2. Use adhesive glue to connect drainage pipe and connect pipe joint with PVC adhesive tape
- 3. Check each step of the installation.
- 4. Use connected drainage hose to change air flow direction.





- Heat-insulation material
- 2 Support of the drainage pipe
- 3 Minimum slope
- 4 Drainage pipe

- Maximum distance
- Upward and bend(must avoid)
- Sewage accumulation
- 8 Vent hole

Drainage Test

- ◆Check whether the drain pipe is unhindered and each joint is airproof.
- ♦As for new room, the test should be done before the ceiling is fixed.
- . Dismantle the cover and inject 2000ml water into the tray. Then, preserve temperature of drainage pipe with cotton case in case condenser appears.

REFRIGERANT PIPE CONNECTION

Pipe dimension and ways of installation

Outdoor pipe dimension and ways of install (in sequence of cooling capacity)

1) 9000Btu/h

Junction Dimension: $(\varphi 1/4'' + \varphi 3/8'')$

2) 12000~18000Btu/h

Junction Dimension: $(\varphi 1/4'' + \varphi 1/2'')$

3) 24000Btu/h

Junction Dimension: $(\varphi 3/8'' + \varphi 5/8'')$

4)36000~60000Btu/h

Junction Dimension: $(\phi 1/2'' + \phi 3/4'')$

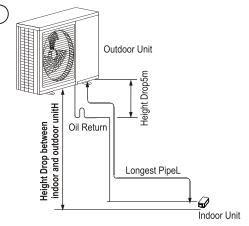
Conventiona	Allowed value	
	10m	
Maximum height drop	Height drop between indoor and outdoor unitH	5m

Conventional	Allowed value	
	15m	
Maximum height drop	Height drop between indoor and outdoor unit	7.5m

Convention	Allowed value	
	20m	
Maximum height drop	Height drop between indoor and outdoor unit H	9m

Please refer to refrigerant pipe connection for detail.

Allowed length and height drop



Remove objects and water

- Use high-pressure nitrogen to clean the pipe instead of outdoor refrigerant.
- Before installing refrigerant pipe, please clean the pipe in case of foreign objects.

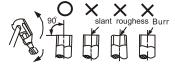
Additional refrigerant charge

The additional charge is base on the diameter and length of outlet/inlet liquid type . This AC has been charged with that for 5m pipe, those beyond 5m should recharge as follows.

Liquid pipe diameter	ф 1/4″	ф 3/8″	ф 1/2″
Additional charge for 1m pipe(R410A)	0.022kg	0.054kg	0.110Kg
Additional charge for 1m pipe(R22)	0.020kg	0.050kg	0.080Kg

FIARING

1 Cut the refrigerant pipr off with pipe cutter.



② Flaring after putting the pipe into connection nut.



Outside	A (mm)		
Diameter	MAX	MIN	
φ1/4″	8.7	8.3	
φ3/8″	12.4	12.0	
φ1/2″	15.8	15.4	
φ5/8″	19.0	18.6	
φ3/4"	23.3	22.9	

Stop valve operation item

- Open the valve rod til to the position rod.
 Do not trey to open larger.
- Fasten the bonnet with spanner or similar tools.
- Fasten the bonnet of valve rod.
 Liquid side(\(\phi\)3/8" \, \(\phi\)1/2"): 1180N-cm(120kgf-cm)
 gas side(\(\phi\)5/8" \, \(\phi\)3/4"): 1180N-cm(120kgf-cm)

Junction fixture

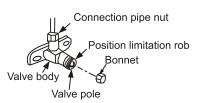
Aim at connection pipe

fix the nut of connection pipe, then tighten] as the following diagram with spanner

A Notice

 According to installation conditions, overlarge wrenched torch will destroy the nut. (Unit. N.cm)

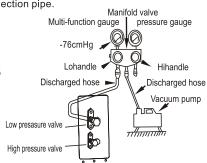
	Outside	Stengthen to fasten the torch
	diameter	Tablett the teren
	φ1/4″	1420~1720N cm (144~176kgf.cm)
	φ3/8″	3270~3990N cm (333~407kgf.cm)
	φ1/2″	4950~6030N cm (504~616kgf.cm)
	ф5/8″	6180~7540N cm (630~770kgf.cm)
	φ3/4″	9720~11860N cm (990~1210kgf.cm)



- When vacuum pump is used, each low-pressure valve muse be manipulated as follow Please refer to operation manual for the usage of manifold valve.
- 1.Connect the recharged hose to lower pressure valve jucntion (low/high pressure valve must be tightened.)
- 2. Connect the charged hose junction with vacuum pump.
- 3. Open the low pressure handler of manifold fully.
- 4.Start vacuumizing with vacuum pump. Wijhen vacuumizing begins, loosen the nut of low pressure valve a bit. Check is the air enters(noise of vacuum pump changes, the all-purpose meter indication changefrom negative to zero), then tighten the nut of connection pipe.
- 5.After vacuumizing finishing, tighten thelow pressure handler of manifoldvalve fully and stops the vacuum pump.

When vacuumizing is carried out for over 15 minutes, please confirm if the all-purpose meter points at -1.0X10 Pa(-76cmHg).

- 6. Open the high/low pressure valve fully.
- 7.Dismantle the recharged hose from charge gap of low pressure valve.
- 8. Tighten the bonnet of low-pressure valve.



ELECTRIC WIRING

Caution

- Please set the appropriated power supply of outdoor unit.
- Please classify the connection wire system of outdoor&indoor unit and refrigeration pipe system as the same system.
- Carried out according to National Electric Standard.
- Consign the professional technician to do the electric wiring.
- Electric leakage protector and manual switch should be installed for power.

Safety precaution



WARNING

Please make sure that dimension of electrical source complies with requirements and the voltage is stable.

The electrical source should be connected by specific circuit.

Wiring operation should be done by professionals in accordance with concerning national standard.

Indoor and outdoor connection and the lead of electrical source should be well installed to make sure they do not contact each other.

Please wire under the guidance of circuit diagram and notice concerning warnings on indoor and outdoor unit.

Please add short-circuit switch and protection switch for electrical leakage to the circuitry.

Please make use of the matched power cord. If requirement can not be satisfied, the substitute should comply with national standard.



- 1. Electric line connecting indoor and outdoor unit is a power-supply cord connecting indoor and outdoor unit.
- 2. Those above are dimensions of electric supply, electric line and indoor -outdoor connecting line for each type of unit.
- 3. When the electric connecting line is a bitlonger, The sectional area of Conductor should be enlarged in case of voltage falling.
- 4. The sectional area of the electric core wire is minimum.in case power-connecting wire is longer than usual, just select the conductor cross-section a level higher than the specified one to avoid voltage drop.
- 5. Power lead connecting indoor unit is RVV (300/500V) power cord. Power line connecting outdoorunit and indoor-outdoor power supply is multi-stranded line of YZW (300/500V) power cord. If single-core cord is adopted, please use wires with larger dimension and wear electrician cover.

When following occasions occur, please stop running immediately,cut off the power supply and contact the dealer.

- Incorrect motion of on/off.
- Fuse or electric leakage protector meltsfrequently.
- Foreign matters or water come into the air conditiner.

1. Ways Of Electric wiring for indoor unit

Open the electric joint box and let connecting line go through the ring.

Do according to what the circuit diagram proscribes.

Please make sure the connecting line at the end of the line be impressed tight.

2 Wrapping

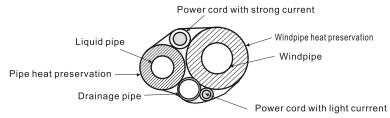
After wiring is finished, please wrap connecting pipe, connecting line and drainage pipe with bandages. The section is illustrated as follows after wrapping is done.

NOTICE:

Do not flatten the drainage pipe

Please connect drainage outlet

Where the environment is not polluted.



If situations as follow occur, please cut off the electric power before contacting the dealer

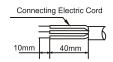
- open or close incorrectly fuse or electric leakage protector breaks for several times.
- Objects or water into the AC

3. outdoor unit wiring

- 1. Copper-cored wire should be selected.
- 2. As the electric control box is inside the unit body, dismantle the valve installation cover, top cover right front board sequenly when connecting wires. Then connect the responding wires from the hole of the electric of the right back board.
- 3.mate series number according to junction box of outdoor unit. (Disposed length of connection wire is good enough for inserting the connection pole completely as the right picture shows.)
- 4. Wrap the electric wire(conductor), which is not inserted into the connection pole, with PVC belt and make it avoid any electric appliance or metal elements.
- 5. After installing cable connection lug on the main power wire, then connect to the terminal row.
- 6. Connection lug should be installed on the grounded wire of all cables.

Only finishing that all cables can be connected to grounded bolt.

- 7. The electric wire from wire terminal should be through wire clips.
- 8. Please refer to the right illustration.



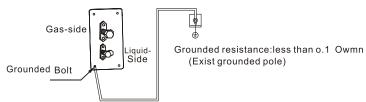
NOTICE

The indoor unit should be connected correctly with the high-pressure and low-presurre stop valve of the outdoor unit as well as the signal line. Otherwise, some electrical componets and system may suffer damages.

GROUNDED JOB

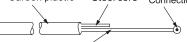
(NOTE: the hull of outdoor unit must be grounded)

- Find the grounded connection pole on the outdoor PCB as the following picture indicated.
- (1) when there is an exist grounded connection pole on the outdoor PCB as the following picture indicated $\[$ The area of the wire is no less than 4mm $^2\]$ (standard line)



(2) use a grounded electrode

• Dimension of grounded electrode。
Carbon plastic
Steel core
Connection terminal M4



PVCinsulated wire (2mm²x3.5m green or yellow/green)

Step of grounded connection

Do the grounded connection according to the following instruction.

Step	Job	Instruction	Notice information
1	Decide the connection Position	Suitable position a) moisture places b) hard quality soil but not loose sand and soil unsuitable position a) the places where there are underground building and facilities, such as gas pipe, telephone wire, cable,etc. B) within 2m of electric pole or conductor.	 Avoid sand soil, gravel soil because their resistance are high. The grounded wire of the telephone cannot be used as that of the AC When the elctrode is installed in a heavy traffic place, please pay attention to fasten connection.
2	Put the grounded electrode into the installation position	A)dig a hole according to the graphic size and put the electrode into it. B)cover grounded electrode with soil which has been dug out.	Hammer 30cm a) Grounded electrode
3	Arrange the grounded wire connection	a) if the grounded wire is too short, extend the wire.the joint should be welded and wrapped with adhesive tape. b) fix the grounded wire with thread yard.	Grounded wire should use the green or yellow-greeen insulation material. The section-crossed are is no less than 4mm do not bury the welding objects into underground
4	If necessary, check quality and take prope measure.	a) after the grounded job finishing, test the grounded resistance with ohmmeter b) if the grounded resistance is higher than the standard level, put the electrode deeper or add more elctrodes.	
5	Connect grounded wire with AC.	Fix the grounded wire to the rod of the AC unit	

TEST RUN

NOTICE

- 1. When carrying out test run, please confirm all the valves are open.
- 2.after checking electric safety, do the test run.
- 3. Try your best not to do the test running in force.
- 1. Test running should be preceded by proper installation.
- 2. Please confirm the following particulars.
 - Make sure proper installation of the indoor and outdoor units..
 - Make sure proper connection of pipe and line. (Cross connection is forbidden!)
 - Make sure refrigerant pipe system gone through leak hunting.
 - Make sure drainage is not hindered.
 - Make sure heat t insulation and preservation in proper condition.
 - Make sure earth wire correctly connected.
 - Make sure recordes on pipe length and additional refrigerant charge are made.
 - Make sure voltage of the electrical source equal to rated voltage of the air conditioner.
 - Make sure clearance in air outlets of indoor and outdoor units.
 - Make sure gasr-sided and liquid-sided cut-off valve open.

Make sure electrical source is connected and the air conditioner preheated.

3. Racks for remote controller should be installed according to customers? requirement.

The location should facilitate smooth transmission of signals to the indoor apparatus.

4. TEST RUNNING

Usage of remote controllers should be in accordance with particulars as follows:

Troubles can be eliminated according to the chapter of maintenance.

- Indoor Unit
- (1) Make sure switch of the remote controller in proper state.
- (2) Make sure each function buttonof the remote controller in proper state.
- (3) Make sure movement of baffle in proper state. (Except for those without baffles)
- (4) Make sure regulation of indoor temperature in proper state.
- (5) Make sure the pilot lamp shine in proper state.
- (6) Make sure buttons for hands handling in proper state.
- (7) Make sure no condensation or drooping water as a result of loose in copper pipe and drainpipe.
- (8) Open the air grill and make sure no penetration or leakage, especially at the drain plug.
- (9) Make sure no vibration or abnormal noise in operation.
- (10) Make sure proper running in heating mode.
- Outdoor Unit
- (1) Make sure no vibration or abnormal noise in operation.
- (2) Make sure neighbours out of disturbance from wind, noise and condensation.
- (3) Make sure no refrigerant leakage.

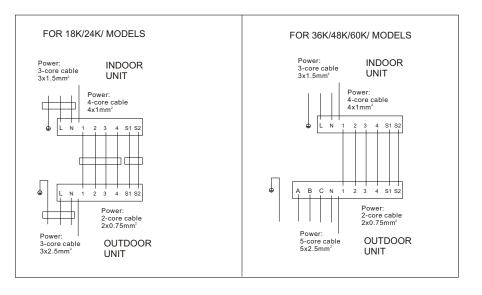
NOTE: When the switch is on, restarting after immediate opeing or closing will be under protection of the air conditioner with the compressor resarting 3 minutes later.

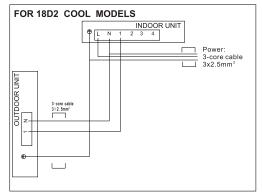
PTC Function

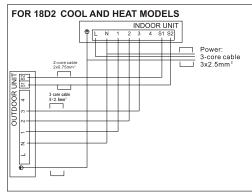
- Automatically controlled by PCB, the auxiliary heater will start under such occasions as:
 - 1. In heating mode:
 - 2. Compressor is in operation (Exclude defrosting and outdoor protection period);
 - 3. Indoor fan motor is in operation:
 - 4、T2≤42℃:
 - 5、T_S-T1>3℃;
 - 6、T1≤18℃。
- The auxiliary heater will close under such occasions as:
 - 1. The compressor is off (Exclude defrosting and outdoor protection period);
 - 2. The indoor fan motor is off:
 - 3、T2≥54°C:
 - 4、T1≥Ts-1°C or T1≥24°C。
- When the auxiliary heater and compressor are reliable to be on spontaneously, the former will be on 3minutes later then the latter is.
 Note: T1 is indoor temp; T2 is evaporator coil temp; Ts is the temp set by the user.

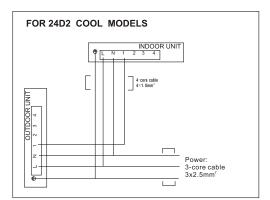
WIRING DIAGRAM

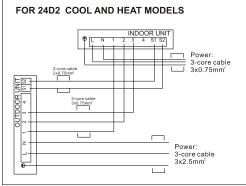
Please see the pasted diagram instruction on the unit first

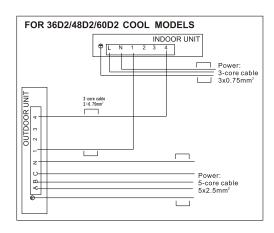


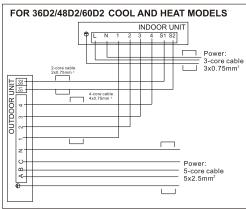










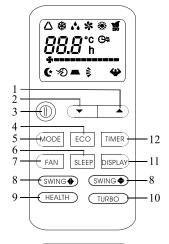


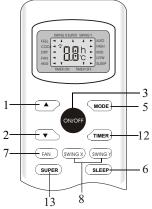
HAND OVER TO CUSTOMERS

- INSTALLATION MANUAL and REPAIR MANUAL must be handed over to customers.
- Please narrate the manual to customers in detail.
- The figures in this manual are sketch maps based on the external view of a standard model. In practice, the shape may differ from that of the air conditioner you have selected.
- The specification are subject to change without prior notice for product improvement.

REMOTE CONTROLLER

No.	Button	Function
1	▲ (TEMP UP)	Increase the temperature or time by 1 unit
2	▼ (TEMP DN)	Decrease the temperature or time by 1 unit
3	ON/OFF	To switch the conditioner on and off.
4	ECO	In cooling mode, press this button, the temperature will increase 2°C on the base of setting temperature. In heating mode, press this button, the temperature will decrease 2°C on the base of setting temperature.
5	MODE	To select the mode of operation
6	SLEEP	To activate the function "SLEEP"
7	FAN	To select the fan speed of auto/low/mid/high
8	SWING	To activate or deactivate of the movement of the "DEFLECTORS".
9	HEALTHY	To switch - on /off HEALTHY funtion.It is a button which controls the ionizer or plasma generator only for inverter type.
10	TURBO	In cooling mode, press this button, the unit will give the maximum cooling temperature with 16° C In heating mode, press this button, the unit will give the maximum heating temperature with 31° C
11	DISPLAY	To switch on/off the LED display (if present)
12	TIMER	To set automatic switching-on/off
13	SUPER	In cooling mode, press this button, the unit will give the maximum cooling temperature with 16° C In heating mode, press this button, the unit will give the maximum heating temperature with 31° C

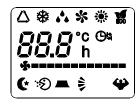




- The outlooking and some function of remote control may vary according to the model.
- The shape and position of buttons and indicators may vary according to the model, but their function is the same.
- The unit confirms the correct reception of each press button with a beep.

Remote control DISPLAY Meaning of symbols on the liquid crystal display

No.	Symbols	Meaning
1	\triangle	FEEL indicator
2	*	COOLING indicator
3	•••	DEHUMIDIFYING indicator
4	*	FAN ONLY OPERATION indicator
5	*	HEATING indicator
6	⊕ ►	TIMER OFF indicator
7	<u>.</u>	TIMER ON indicator
8	- ļ	AUTO FAN indicator
9	-}	LOW FAN SPEED indicator
10	÷	MIDDLE FAN SPEED indicator
11	- 	HIGH FAN SPEED indicator
12	(·	SLEEP indicator
13	ليهنا	SUPER indicator
14	*£)	HEALTHY indicator
15	ECO	ECO indicator
16	_	BATTERY indicator
17	48	BATTERY indicator
18	88:8	CLOCK indicator



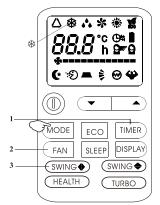
COOLING MODE

The cooling function allows the air conditioner to cool the room and at the same time reduces the humidity in the air.

To activate the cooling function (COOL) , press the MODE button until the symbol ℜ appears on the display.

The cooling cycle is activated by setting the keys \triangle or ∇ at a temperature lower than that of the room.

To optimize the functioning of the conditioner, adjust the temperature (1), the speed (2) and the direction of the air flow (3) by pressing the keys indicated

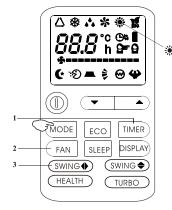


HEATING MODE

The heating function allows the air conditioner to produce hot air. To activate the heating function (<code>HEAT</code>) , press the MODE button until the symbol \divideontimes appears on the display. With the keys \blacktriangle or \blacktriangledown set a temperature higher than that of the room.. To optimize the functioning of the conditioner adjust the temperature (1), the speed (2) and the direction of the air flow (3) by pressing the keys indicated

The appliance is fitted with a Hot Start function, which delays appliance to startup in a few seconds to ensure an immediate output of hot air.

In HEATING operation, the appliance can automatically activate a defrost cycle, which is essential to free the condenser from an excessive deposit of frost. This procedure usually lasts for 2-10 minutes during defrosting, fans stop operation. After defrosting, it returns to HEATING mode automatically.



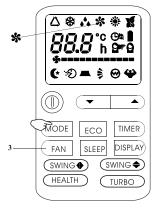
FAN MODE

The conditioner works in only ventilation.

To set the FAN mode, Press MODE untill * appears in the display. Whith pressing FAN button the speed changes in the following sequence: LOW/ MEDIUM/HIGH /AUTO in FAN mode.

The remote control also stores the speed that was set in the previous mode of operation.

In FEEL mode (automatic) the air conditioner automatically chooses the fan speed and the mode of operation (COOLING or HEATING).



TIMER MODE----TIMER ON

To set the automatic switching on of the air conditioner.

To program the time start, the appliance should be off.

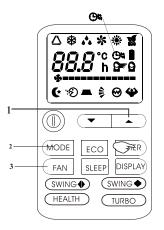
Press TIMER, Set the temperature with pressing the key \triangle or ∇ , Press TIMER Again, set the time with pressing the key \triangle or ∇ , Press the key more times till on the display you can read the time which passes between the programming and the timed start.

IMPORTANT!

Before proceeding with the timed start : program the working mode with the key $\;MODE(2)\;$ and the fan speed with the key $\;FAN(3)$. Switch the conditioner off (with the key $\;ON/OFF\;$).

Note:To cancel the setted function ,press the TIMER button again.

Note: In case of power off, it is necessary to set TIMER ON again.



TIMER MODE----TIMER OFF

To set the automatic switching-off of the air conditioner.

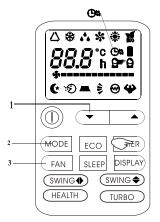
The timed stop is programmed with the appliance on.

Press TIMER ,Set the time pressing the key \triangle or ∇ , Press the key more times till on the display you can read the time which passes between the programming and the timed stop.

Note:To cancel the setted function, press the TIMER button again.

Note:In case of power off,it is necessary to set TIMER OFF again.

Note: While the time was right settled, the TIMER function of this remote(clock function) can set by half hours.



DRY MODE

This function reduces the humidity of the air to make the room more comfortable.

To set the DRY mode, Press MODE untill 🔥 appears in the display. An automatic function of alternating cooling cycles and air fan is activated.

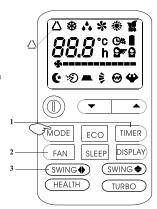


FEEL MODE

To activate the FEEL (automatic) mode of operation, press the MODE button on the remote control until the symbol \triangle appears in the display. In the FEEL mode the fan speed and the temperature are set automatically according to the room temperature (tested by the probe which is incorporated in the indoor unit)to ensure user comfort.

Ambient temp	Operation mode	
< 20℃	HEATING (FOR HEAT PUMP TYPE) FAN (FOR COOL ONLY TYPE)	
20℃~26℃	DRY	
> 26℃	COOL	

To optimize the working of the conditioner, adjust the temperature(only $\pm\,2^{\circ}\!C$)(1), the speed (2) and the direction of the air flow (3) by pressing the buttons indicated .



SLEEP MODE

In heating mode the set temperature is gradually decreased by 2 $^{\circ}\mathrm{C}$ during the first 2 hours of work.

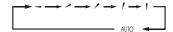
After 10 hours running in sleep mode the air conditioner is swicthed off automatically.



Air flow direction adjustment procedure

Adjusting air flow direction

Up/down direction can be adjusted by using the AIRFLOW button on the remote controller. This button, each time pressed, changes the mode in the following sequence:



push the LOUVER button, changes the mode to swing louver. Push the button,to stop swing.



- When the room temperature controller(thermostat)trips in the heating mode or when the defrosting operation is conducted, the blow flap changes automatically to the when use toom sequence consider (with insequence) in the result in the delivers of the deliver

■ About TIMER operation

About Amenity reservation

Amenity reservation function is provided to start the operation a little earlier so that the room temperature is near the optimum temperature at the timer ON time in case of starting the operation by TIMER ON/OFF.

- Checking of the room temperature starts 60 minutes ahead of the timer ON time. Depending on the temperature at that time, operation starts 5 to 60 minutes ahead of the timer ON time.
- Amenity reservation is the function only for COOL and HEAT operation mode (including AUTO).it does not actuate in DRY mode.
- ▶ In cool operation 4 (Stop) Operation starts (Operation) Set Temperature Check the room Set time temp. 60 mln

About SLEEP Operation

When the SLEEP operation is selected, the room temperature is automatically controlled with elapsed time so that the room isn't too cool during cooling or too warm during heating.

- During cooling and dry:Present temperature is raised 1°C in an hour (when the timer is set),and 2℃ raise in two hours. Then the temperature dosen't change ever.
- During heating:Present temperature is lowered 1°C in an hour (when the timer is set),and 2℃ lower in two hours.Then the temperature dosen't change ever.

About FAN SPEED

Capacity of the air conditioner can be selected by your choice. During heating or cooling.

ahead

Operation capacity by your choice	FAN SPEED
Set automatically by microcomputer	AUTO
Powerful operation with high capacity	Н
Standard operation	MED
Energy-saving operation	LO

■ About power-off memory function

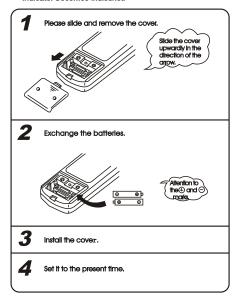
- When the air conditioner disconnect the power suddenly, restart it, the air conditioner operates at the mode it did before power suddenly failed.
- The wire controll don't have this function

■ Remote controller handling procedure

Batteries replacing procedure

Following cases signify dead cells. Replace the dead batteries with new ones.

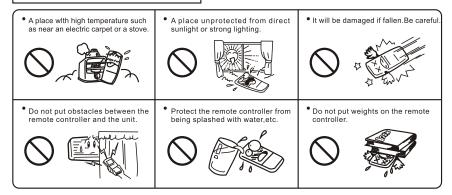
- · Receiving sound is not emitted from the unit when signal is transmitted.
- · Indicator becomes indistinct.





- · Do not use an old battery together with a new one.
- Remove cells when the remote controller is not used for a long period.
- The life of a cell made in conformity to JIS or IEC is 6 to 12 months in normal use. If it is used longer or an unspecified cell is used, a liquid leaks from the cell, causing the remote controller inoperative.
- Guideline of the life time is printed on the battery.
 The battery life may be shorter than that of the air conditioner depending on the date of manufacture.
- However, the battery may be alive even after the nominal life time expired.

Note of remote controller handling



Error code

Fault code ofindoor unit						
Failure	Error Code	Failure description	Remarks			
Indoor ambient sensorfault	E1	1. Check whether the sensors are				
Indoor coil sensorfault	E2	normal.				
Outdoor coil sensor Faultsensor fault	E3	Check whether the sensors are Connected.				
outdoor unit protection	E4	(if there is an outdoor control board) 1.View the fault code of outdoor unit. (if there is not an outdoor control board) 1.Check whether the protection input and the neutral line is short circult.	Unrecoverable before restart.			
Water pump fault	d3	(if there is a water pump) 1.Check whether the water pump is normal. 2.Check whether the water level switch is normal. 3.Check whether the water level switch is connected. (if there is not a water pump) 1.Check whether the water level switch Is short circuit.	Recoverable			
EEPROM fault	Ed		Unrecoverable before restart.			

	Fault code of thyristor unit: ● Lighting							
Red	Gree	Faults/States	Solutions	Priority				
•	0	Zero-cross point fault	Check whether the power frequency is 50Hz.	1				
© (1Hz)	0	Outdoor ambient sensor/Outdoor coil sensor fault Outdoor exhaust sensorfault (reserved)	1.Check whether the sensors are normal. 2.Check whether the sensors are connected.	2				
0	•	Standby		3				
0	© (1Hz)	Cooling mode		4				
0	⊚ (0.5Hz)	Heating mode		5				

Fault code ofindoor unit					
Failure	Error Code	Failure description	Remarks		
Indoor ambient sensorfault	E1	1. Check whether the sensors are			
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Water pumpfault	d3	(if there is a water pump) 1.Check whether the water pump is normal. 2.Check whether the water level switch is normal. 3.Check whether the water level switch is connected. (if there is not a water pump) 1.Check whether the water level switch Is short circuit.	Recoverable		
EEPROM fault	Ed		Unrecoverable before restart.		





IMPORTANT INFORMATION FOR CORRECT DISPOSAL OF THE PRODUCT IN ACCORDANCEWITH EC DIRECTIVE 2002/96/EC.

At the end of its working life, the product must not be disposed of as urban waste. It must be taken to a special local authority differentiated waste collection centre or to a dealer providing this service.

Disposing of a household appliance separately avoids possible negative consequences for the environment and health deriving from inappropriate disposal and enables the constituent materials to be recovered to obtain significant savings in energy and resources. As a reminder of the need to dispose of household appliances separately, the product is marked with a crossed-outwheeled dustbin.