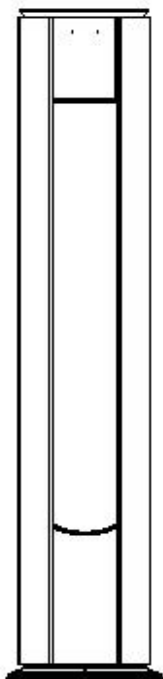




FLOOR STANDING TYPE AIR CONDITIONER OWNER'S MANUAL

BAF-18ICOW

BAF-24ICOW



- Thank you for choosing an Air Conditioner. Please read this OWNER'S MANUAL carefully prior to using, keep it for further reference.
- Do not attempt to install, service or move the Air Conditioner by yourself. Incorrect behaviour may cause fire, electric shock and the unit falling may result in injury or water leakage. Contact our designated air conditioner service centre and specialists. The manufacturer shall not assume responsibility for accidents or injury caused by incorrect behaviour.

CONTENTS



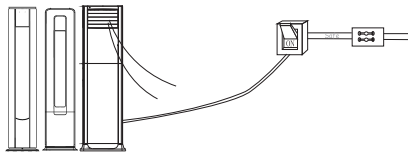
Contents	1
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Name of the components	4
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SAFETY AWARENESS



Read and understand thoroughly this safety awareness before use. The items Indicated here are very important safety precautions, which must be followed.

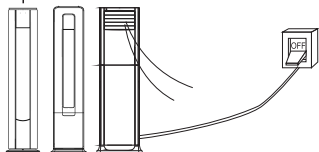
The capacity of the power lines must be enough; the power lines must have circuit breakers and fuses. Otherwise the power lines might be overheated and cause fire.



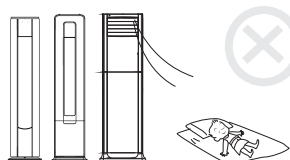
Do not damage the power cord. You may damage it if you make connection from the middle of the power cord or extend it, put heavy object on it or place it near heat sources. In such cases, accidents like fire caused by short circuit or casualty might occur.



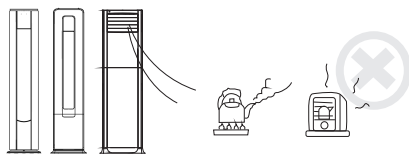
When the machines are working, do not cut off the power (turn off the power switch, for example). If you do not use the machine for a long time, cut off the power.



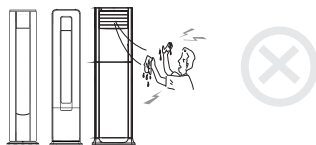
Do not allow the cool air to blow directly on humans, animals, plants, etc. (Especially there are babies, aged persons and patients).



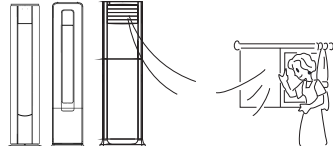
Do not put burning appliances at places exposed to the air flow, it may cause incomplete combustion and thus produce toxic gas: carbon monoxide.



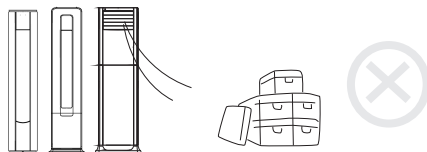
Before cleaning the machine, be sure to stop the operation and cut off the power! When cleaning, use a piece of dry and soft cloth. Do not use water, flammable or abrasive materials which may damage the outer surface of the machine and result in electric shock and even fire.



When the machine has been operating for a long time, the air quality in the room is deteriorated. Therefore, open the windows periodically for ventilation.



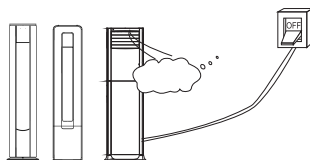
The machines should not be used to store food, precision instrument and artistic objects that have very high requirements for temperature and humidity.



When the machine is working, do not open the inlet grid of the indoor unit.

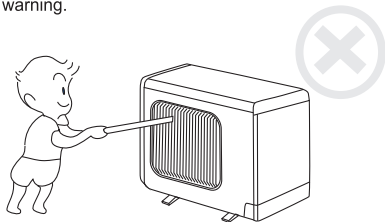


Stop operation and turn off the breaker immediately if anything abnormal occurs (such as burning smell). Then please contact with our service centre.

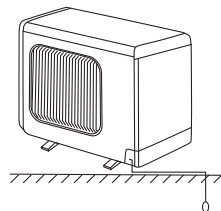


Read and understand thoroughly this safety awareness before use. The items Indicated here are very important safety precautions, which must be followed.

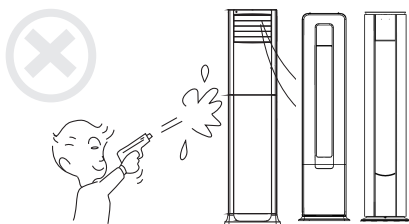
Do not put a finger, a rod or other objects into the air outlet/inlet grille. As the fan is running at a high speed, it will cause injury. Kids should pay more attention to this warning.



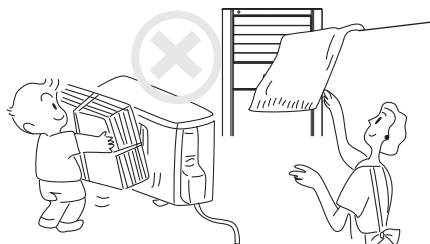
It is important that your air-conditioner is firmly grounded.



Don't spout insecticide or inflammable spray to the air conditioner.



Inlets and outlets of indoor and outdoor units shall not be covered/blocked.



Restart after a power failure. When the power is recovered, the air conditioner will not restart automatically.

please press the button on/of on the remote controller or operation panel, the air conditioner will restart.

The appliances are not intended to be used by young children or infirm persons without supervision.

The indoor unit shall not be installed in the laundry room.

If you find one of the following symptoms, please stop the operation quickly and enquire to After-sale Service centre of electrical appliance Ltd

The earth leakage breaker often cuts off the operation. Some switch or button often fails to work properly, LED display screen is hard to see and other abnormal circumstances.

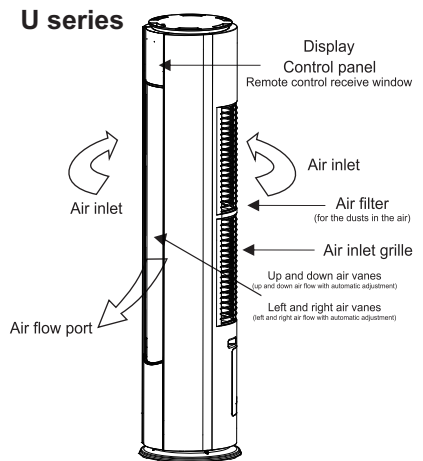
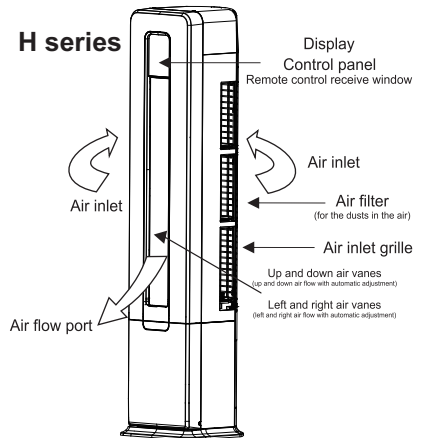
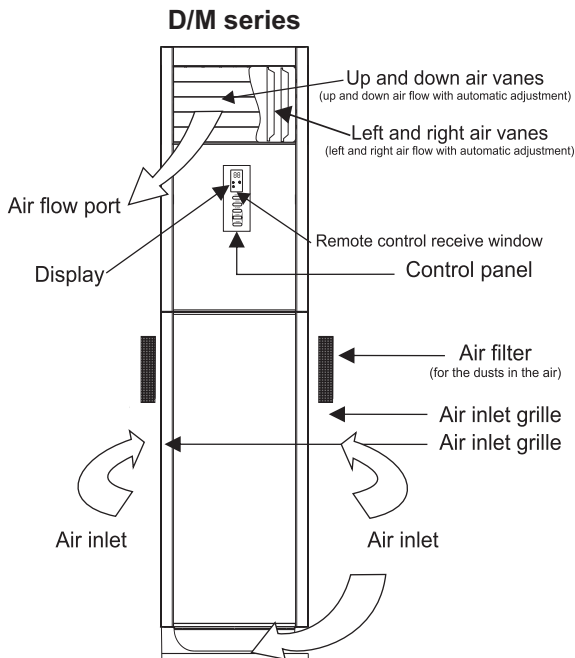
Do not attempt to install, service or move the Air conditioner by yourself. Incorrect behaviour may cause fire, electric shock and the unit falling may result in injury or water leakage. Please contact our designated air conditioner service centre and specialists for assistance.



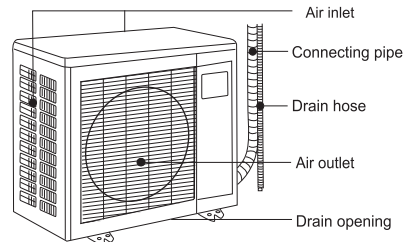
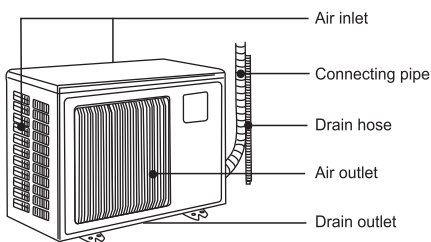
NAME OF THE COMPONENTS



◆ INDOOR UNIT

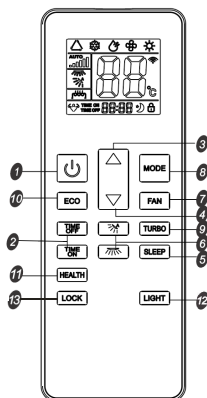


◆ OUTDOOR UNIT



Note: We reserve the right to improve the appearance of air conditioner and the continuing improvement is subject to change without notice.

◆ REMOTE CONTROLL



- 1 ON/OFF button**
Used to start and stop operation when pressed.
- 2 TIMER button**
Used to select TIMER operation.
- 3 UP button (TOO COOL button)**
Used to increase the set room temperature and time.
- 4 DOWN button (TOO WARM button)**
Used to decrease the set room temperature and time.
- 5 SLEEP button**
Used to set or cancel sleep mode operation. In cooling or heating mode, press "SLEEP" button more than 10 times in eight seconds, open or close auto-restart function.
- 6 VANE control button** (Only some models are used)
Vane control/Swing
- 7 FAN SPEED control button**
Used to select the indoor fan motor speed: Auto, High, Mid and Low.
- 8 MODE button**
Used to select the type of operation mode: Feel, Cooling, Dry, Fan and Heating(Only for Heat Pump).
- 9 TURBO button**
Used to set or cancel superstrong mode operation.
- 10 ECO button** (Only some models are used)
Used to set or cancel economic mode operation.
- 11 HEALTH button** (Only some models are used)
- 12 LIGHT button**
Lamp light display
- 13 LOCK button**
Lock or unlock the remote control by pressing for 3 seconds



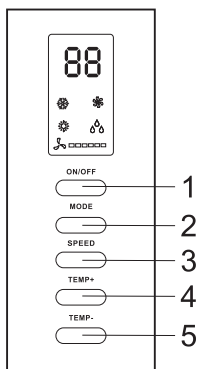
NOTICE:

Heat mode is not applied to cool only type .

Please aim the signal ejecting window of the remote controll at the signal receiving window of the indoor unit.

INDOOR OPERATION BOARD

D/M series



1. Run/stop button

Press I/O button Air conditioner start operation.
Press I/O button Air conditioner stop operation.

2. Mode button

Chose auto cooling/dehumidify or fan mode.
(cooling only type)
Chose auto cooling/dehumidify heating or fan mode.
(heat pump type)

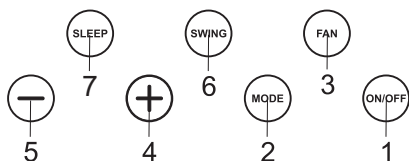
3. Fan speed button

Press it once to set the fan speed in the order of low-high-auto-low,press it for 3 seconds to initiate turbo function.

4/5. Temperature adjusting button

Adjust setting temperature.
Press TEMP+ to increase the set temperature.
Press TEMP- to decrease the set temperature.

U series



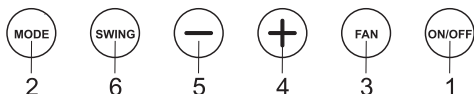
6. Swing button

Press SWING button, left and right swing start running.
Press SWING button, left and right swing shut down.

7. SLEEP button

Used to set or cancel sleep mode operation.
In cooling or heating mode, press "SLEEP" button more than 10 times in eight seconds, open or close auto-restart function.

H series



Note: In this illustration, each section is shown with all its displays ON for the purpose of explanation. During operation, only the relevant symbol light on display will be on.

◆ ICON EXPLANATION:

❄ Cool mode

💧 Dry mode

88 Setting temp and timer display

☀ Heat pump mode

✳ Fan mode

🌀 Low fan mode

🌀 Mid fan mode

🌀 High fan mode

⚠ Notice:

Do not get the remote controll scratched, scratched or wetted, which will result in irreparable damage.

◆ RUN/STOP

Press "NO/OFF" button of remote control or of indoor unit control panel, the air conditioner will sound like music and the display of indoor unit panel will start to work.

When the air conditioner is working, press Run/Stop button on remote control or on control panel of indoor unit, the air conditioner will stop.

Notice

If you restart the machine within 3 minutes after you stop it, it will not work until 3 minutes later, which is a kind of protection to the air conditioner system.

◆ TEMPERATURE ADJUSTMENT

Press TEMPERATURE ADJUSTMENT button or "mode" button on operating panel on indoor unit, to set temperature decreases 1°C by pressing "TEMP-" button once, and increases 1°C by pressing "TEMP+" button once.

Temperature change will be displayed on the display of remote controller.

The arrange of setting temperature is from 16°C to 31°C.

Remote control and indoor unit display can indicate temperature from 16°C to 31°C.



◆ FAN SPEED ADJUSTMENT

Press "SPEED" button on the remote control fan speed will change in the order of low → medium → high → auto → low.

(Notice: Under AUTO mode fan speed is adjusted automatically and the user cannot adjust fan speed from the remote control)

◆ SLEEP SELECTION

Press the sleep button on the remote control the air conditioner running in a sleep mode.

Sleep mode

When the air conditioner is in cooling and heating, the indoor fan runs at setting speed. After one hour of operation the setting temperature will decrease by 1°C.

One hour later, the setting temperature will decrease by 2°C once more. The unit will continue operating at this temperature for 3 hours after the 3 hours it will return to 1°C below setting temperature for 1 hour then come back to setting temperature without further changes.

ADVICE

Choose sleep mode when sleep can make you feel more comfortable and can save energy.

◆ AIRFLOW DIRECTION ADJUSTMENT

Beamed blowing

Press the horizontal swing adjustment button and the deflector will swing in the order of swing-motionless.

● Adjusting the airflow vertically

Beamed blowing

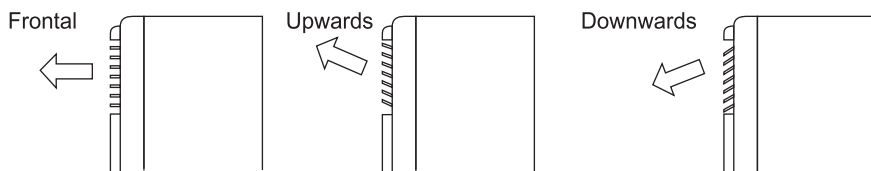
Press the vertical swing adjustment button and the deflector will swing in the order of swing-motionless

Notice: No moving airflow deflectors at random to avoid damage.

Advice:

When cooling & dehumidifying, set vertical blades frontal or upwards, which will descend the heavier cool airflow and thus make the room temperature more even.

When heating, set vertical blades downwards, which will ascend the lighter warm airflow and thus make the room temperature more even.



OPERATION OF AIR CONDITIONER

◆ OPERATION MODE ADJUSTMENT

Press mode selection button on the remote control or " mode" button on operating panel on indoor unit to choose the following mode.

● AUTO mode

In this mode, the air conditioner can automatically adjust the room temperature to decide the most suitable temperature. At the start of operation, the air conditioner will automatically select the operation mode according to the room temperature. The following table shows the conditions which are set at start up.

Room Temperature(RT)	Item	Cooling only type		Heat pump type	
		Mode	Initial Setting Temperature	Mode	Initial Setting Temperature
RT≥26°C		Cooling	26°C	Cooling	26°C
26°C > RT≥23°C			RT-2	Dehumidi-	RT-2
23°C > RT≥20°C	Dehumidi-			fication	21°C
Rt < 20°C	fication		21°C	Heating	20°C



● COOL mode

In this mode, press temperature adjusting button on remote control or on operating panel of indoor unit to set temperature. Press the fan speed button to set the air flow speed and press the vertical and horizontal airflow direction button to change vertical and horizontal airflow direction. The relative icon will light(see the right picture).



● DRY mode

Air conditioner will set the temperature itself and this would not be shown on the remote control and indoor unit display. At this time, the temperature and airflow speed can not be set. Press vertical and horizontal airflow direction button to change vertical and horizontal airflow direction. The relative indicator will light.(see the right picture)



● FAN mode

In this mode, the outdoor fan will not run and indoor fan is running(same function as electrical fan), press Fan speed button on remote control to set airflow speed. press vertical and horizontal airflow direction button to change vertical and horizontal airflow direction. The relative indicator will light(see the right picture)



● HEAT mode(heat pump type)

In this mode, press temperature adjusting button on remote control or on operating panel of indoor unit to set temperature. Press the fan speed button to set the air flow speed and press the vertical and horizontal airflow direction button to change vertical and horizontal airflow direction. The relative icon will light(see the right picture).



Press mode selection button on the remote control or mode operation button on operating panel on indoor unit to choose the following mode.

COOLING MODE: AUTO → COOL → DRY → FAN



HEATING MODE: AUTO → COOL → DRY → FAN → HEAT



◆ TIMER OPERATION

● ON/OFF timer operation set

- 1) When the unit is on press the timer button once to start timer off function and 6 will be shown on the display , Every press of this button increases the AUTO-OFF time by 0.5 hour when setting time is less than 10 hours Every press of this button increases the AUTO-OFF time by 1 hour when setting time is 10-24 hours .
- 2) When the unit is off, press the timer button once to start timer on function and 6 will be shown on the display , Every press of this button increases the AUTO-ON time by 0.5 when setting time is less than 10 hours Every press of this button increases the AUTO-OFF time by 1 hour when setting time is 10-24 hours.

◆ SUPER function

This function will make the air conditioner heat or cool quickly and during this period, the noise of the air conditioner will increase. Turbo function can be only started up in heat or cool mode(turbo heating or turbo cooling),otherwise, it can not be started up. When the air conditioner is in cool or heat mode, press turbo button on the remote controller to initiate turbofunction , the  fan speed buttons on the indoor unit and the remote controller are not available. Press turbo button again to exit turbo function. After exiting turbo function the fan runs at low speed.

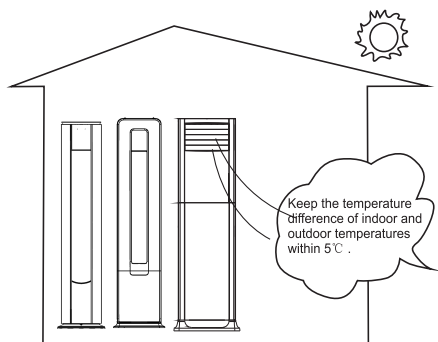
GUIDE TO PROPER USAGE



Be more careful and you will enjoy more comfortable cooling&heating effect and save more energy.

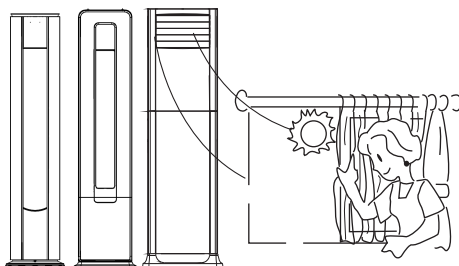
Set the room temperature to your suitable point

- During cooling, a difference of 5°C between the indoor and outdoor temperature will suit you better.
- During cooling, increase of 1°C will save energy by 10%.
- Too low room temperature will do harm to your health and also wastes energy.



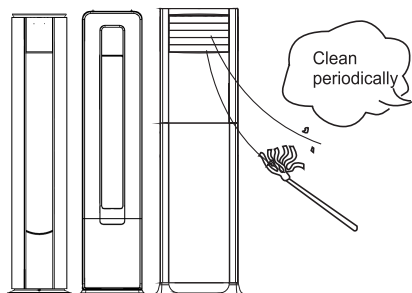
When cooling, keep away from sunshine

- During cooling, draw the curtains especially for the windows facing the sun to reduce the incoming heat; Besides, reduce the frequency of door opening as much as possible.



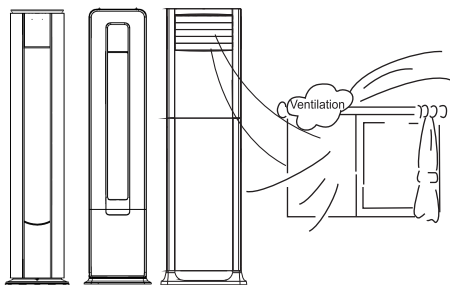
Clean the air purifying filter periodically

- If the air purifying filter becomes clogged with dust/dirt, air flow is restricted and reduces cooling & heating efficiency. If the machine has not been used for a long time, clean the air purifying filter before use. In a dusty environment, clean the air purifying filter more often.



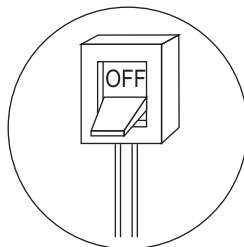
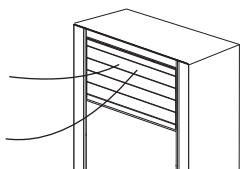
Ventilate the room periodically

- If the windows and doors have been closed for a long time, there would be lack of oxygen in the room. Therefore, ventilate the room periodically.



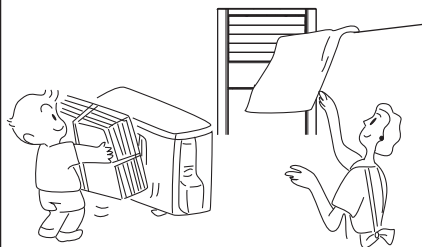
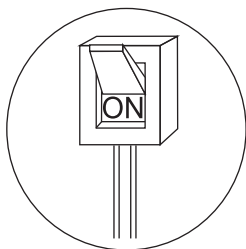
◆ IF YOU WILL NOT BE USING THE AIR CONDITIONER FOR A LONG IDLE PERIOD

- 1 Set the fan of the indoor unit going for 3 to 4 hours to dry out the inside thoroughly. (For cool only type, just set FAN mode; For heat pump type, choose cool mode or heat mode and select the highest or lowest temperature.)
- 2 Switch off the air conditioner.

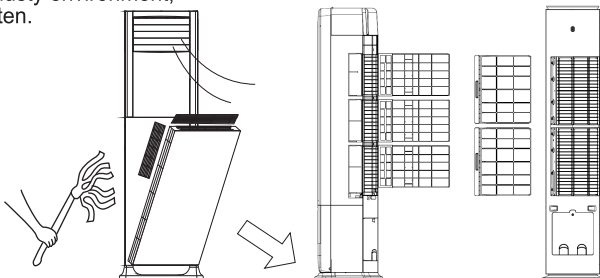


◆ IF YOU HAVE NOT USED THE AIR CONDITIONER FOR A LONG PERIOD

- 1 Operate the air conditioner 12 hours after being turned on.
- 2 Clear dusts and other foreign objects blocked in the inlet and outlet of the indoor and outdoor unit.



- 3 If the air purifying filter becomes clogged with dust/dirt, air flow is restricted and reduces cooling & heating efficiency. If the machine has not been used for a long time, clean the air purifying filter before use. In a dusty environment, clean the air purifying filter more often.

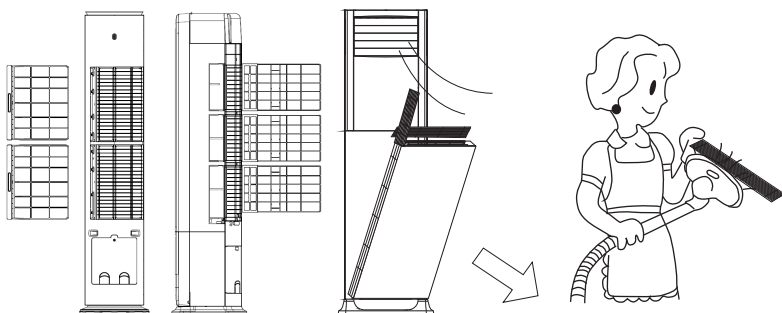


◆ CLEANING OF THE AIR FILTER

The air filter must be cleaned regularly after long period of working.

The air filter should be cleaned every two weeks to maintain the air conditioner in the best condition for a long period of time.

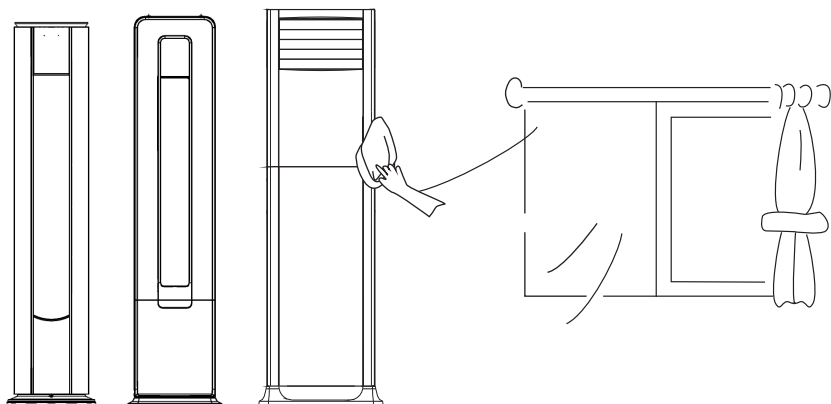
- 1.Remove the front grille and then pull out the air filter.
- 2.Remove all dust on the front grille and air filters with a vacuum cleaner or brush.
(If the dust does not come off easily, clear them with neutral detergent dissolved in warm water below 45°C.)
- 3.Wash them in clean water and dry them in the shade.
- 4.Replace the front grille and air filter as they were.



◆ CLEANING OF THE OUTER SURFACE

You can wipe the surface of the air conditioner with a piece of dry cloth after a long period of working.

Some dirt may be difficult to remove, you can clearing it with a neutral detergent and then wipe it again with dry cloth. Be sure not to use volatile solvent or hard brush to clean the machine outer surface. Otherwise it will cause the irreparable damage to the appearance of the air conditioner.



PRE-REPAIR CHECK



Please check the following items before calling a repair person. And if you still need help, please contact with our designated service centre.

The air conditioner does not operate at all.



Is it a power failure?
Does the power fall off ?
Does circuit breaker or fuse shut off ?

Operation does not start soon when I/O button is pressed after operation was stopped.



This is a way to protect the air conditioner. Please wait 3 minutes.

The cooling or heating effect is not good.



Is temperature setting appropriate ?
Are doors and windows closed ?
Are the air filters clean?
Are there any obstacles to block the inlets and outlets of the indoor and outdoor units?
Is the indoor fan speed set low ?

Air will not immediately blow out at the start of HEAT mode.



Please wait a while, the air conditioner is preparing to blow out enough warm air.

The indoor fan stops during heating. (For heat pump type)



This is because after the long time operating, the out unit frosted, and the machine is unfreezing the frost (defrosting is working).

Issue cracking sounds.



The friction sounds are caused by expansion and contraction of front grille resulting from temperature changes.

You can hear the sound of running water.



It is the sound of flowing refrigerant inside the air conditioner.
Sound of accumulated flowing water on the heat-exchanger.
Sound of frost melting on the heat-exchanger.

Indoor unit issues “pooosh” sound and click sound.



Click sound is made by the switch of fan or compressor.
“pooosh” sound is made by the switch of refrigerant flowing inside the air conditioner.

Indoor unit gives out odour.



Air conditioner may have absorbed odours from wall, carpet, furniture and again blows out.

Outdoor unit leaks water.



During cooling operation, the water in pipes or joints condenses. And during heating or defrosting the melting water and vapour will flow out.

Model		
	Indoor	Outdoor
Function	Cool only type	
Power	220V-240~,50Hz	
Rated capacity(W)		
Standard input power(W)		
Rated input current(A)		
Air flow volume(m³/h)		
Dehumidifying capacity(L/h)		
Protection class		
Water -proof		
Climate type		
Refrigerant(R22) charge amount(g)		
Noise dB(A)		
Net weight(Kg)		
Dimension(mm)WXHXD		

NOTICE:

- 1.The indicated noise parameter is measured in laboratories before leaving factory.
- 2.The rated cooling/heating capacity is tested under the following conditions:

Cooling operation	indoor	29℃(DB)	19℃(WB)	outdoor	46℃(DB)	24℃(WB)
Heating operation	indoor	20℃(DB)	15℃(WB)	outdoor	7℃(DB)	6℃(WB)

- 3.Due to its policy of constant development. We reserve the right to modify technical date without notice. While errors and omissions are a possibility, every reasonable effort has been made to ensure that the information in this manual is correct.
- 4.Operating temperature range:

	Maximum cooling	Minimum cooling	Maximum heating	Minimum heating
Indoor side DB/WB(℃)	32/23	21/15	27/--	20/--
Outdoor side DB/WB(℃)	52/31	21/15	24/18	-5/-6

- 5.Wiring diagram of air conditioner(indoor unit/outdoor unit) are attached to the indoor/outdoor unit respectively.
- 6.If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

◆ SELECTION OF INSTALLATION LOCATION

Indoor unit

- Keep the air inlet and outlet at a far distance from the blockage.
- A place avoiding direct sunshine and easy for condensate drain and easy for connecting with the outdoor unit.
- Keep at least 1m away from the TV radio and other home appliances and keep a far distance away from the fluorescent lamp.
- A place shall be kept away from the lampblack, steam and inflammable gas.
- For heat pump type, it shall be kept away from the fire alarm (during heating, the warm airflow may cause malfunction of the fire alarm.)
- Mount on the wall solid enough to bear the weight of the unit and not cause any shake.

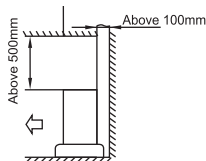
Outdoor unit

- Mount on the wall solid enough to bear the weight of the unit and not cause any shake.
- A place with good ventilation, less dust and not exposed to rainfall and direct sunshine.
- A place where the air discharged out of the outdoor unit or the operation noise will not annoy your neighbours.
- Avoid places close to inflammable gas and caustic gas.
- A place easy for condensate drain and easy for connecting with the indoor unit.

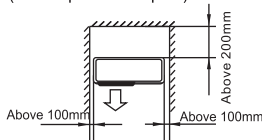
◆ INSTALLATION OF THE OUTDOOR UNIT

● Single unit mounting

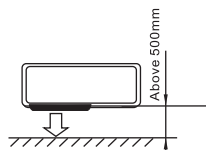
1 When there is obstruction above the unit, if we can keep the space as shown in the figure, this position is still feasible.



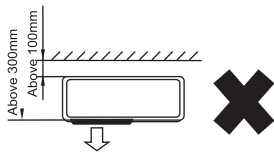
2 When the front side (air outlet) is open, if we can keep the space as shown in the figure, this position is still feasible even if there is obstruction in other three sides. (The top side is open)



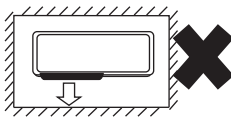
3 If there is obstruction at front side, the backside, top side and flank sides shall be kept open.



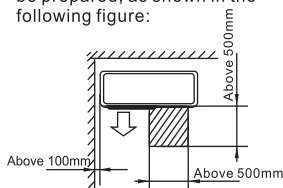
4 When there is obstruction at both front side and backside, please don't choose the following location.



5 When there is obstruction in all four directions. Even if the top side is open, the unit can not be installed there.



6 While installing the outdoor unit, enough maintenance space shall be prepared, as shown in the following figure:

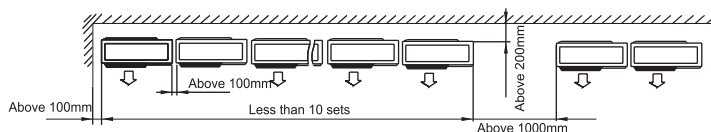


INSTALLATION INSTRUCTIONS

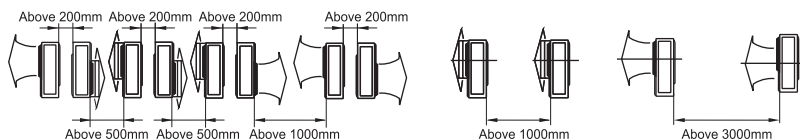


● Multi-unit mounting

1 Install side by side (If this method is used, the top side must be open. Meanwhile, please remove the bolts at the pipe side)

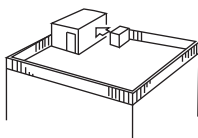


2 Install in tandem

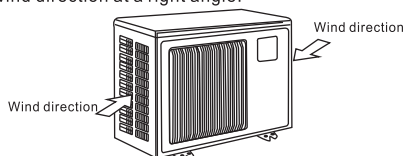


3 Avoid strong wind blowing directly at the outlet of the outdoor unit if the outdoor unit is installing at the roof or position without buildings around it for fear that the insufficient volume of air flow in heat exchanger may affect the cooling and heating efficiency and cause breakdown.

When there is wall nearby, the air outlet shall orientate to the wall and keep a 500 mm distance from wall.



When the air outlet is affected by strong wind and wind direction, change the position of the outdoor unit and adjust the air outlet and wind direction at a right angle.



◆ INSTALLATION OF THE OUTDOOR UNIT

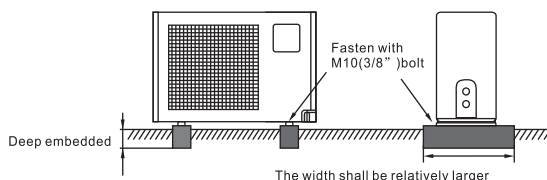
Attention:

Attempt to deliver the air conditioner to the repair shop with the original packing. As the gravity centre of the outdoor unit is not at the middle, so please be careful while hoist the unit. Don't incline it more than 45° in conveying process.

Bolts shall be used to fasten the machine foundation while installation. (Purchase separately).

Please install it firmly to prevent collapse caused by the earthquake or strong wind.

When you are working on the concrete foundation, please refer to the following figure.



◆ INSTALLATION OF DISTRIBUTION PIPE OF REFRIGERANT AND DRAIN PIPE (INDOOR UNIT)

- 1 To remove the bottom panel, you should remove the fixing screws first and then pull the panel out.
- 2 Remove the fixing screw from the pipe shield and take the shield off. (figure 1)
- 3 Please break the evaporator craft tube with pincers before connecting. After exhausting the inside air, use the wrench to twist down the bottom nut of connecting tube of the evaporator. (figure 2)
- 4 Put a layer of airproof oil to cover the joint and the expanding orifice of connecting pipe.
- 5 Screw the nut towards the right centre and tighten it with spanner. (figure 3)

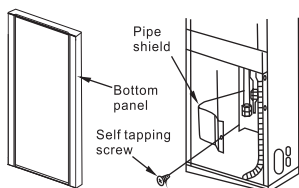


Figure 1

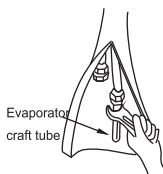


Figure 2



Figure 3

Table of Screwing Torque and Angle

Pipe diameter	Torque(N.m)	Angle
6.35mm(1/4")	14--17	60--90
9.52mm(3/8")	30--35	60--90
12.7mm(1/2")	30--35	30--60
15.88mm(5/8")	73--78	30--60

Attention:

The number of elbow pipes can not be more than 10 in the indoor unit, and can not be more than 15 for the total units. The radius can not be great than 10 cm. Don't screw with excessive force on the expanding orifice.

Attention:

After installation of the pipes in the indoor unit, heat insulation is also needed to be done.

1. Do not reveal the joint of the expanding orifice and copper pipe. They should be wrapped up by heat preservation material to avoid condensate water separating out.
2. Do not put the heat preservation covers of the gas pipe and liquid pipe together. Wrap them up separately.
3. After installing the heat preservation cover, fix the pipes to the grid firmly with the tight cable through the hole of the grid. (Moving of the pipe will influence the installation of the air inlet grid)

◆ INSTALLATION OF THE DRAIN PIPE

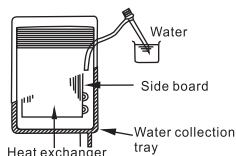
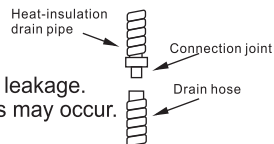
For easy drainage, please possibly decline the drain hose to ensure no accumulated water.

Please purchase the heat preservation cover to deal with the condensate water on the surface of drain hose as you need.

Besides, the connecting joint must be covered tight to prevent water leakage. Do not place the drain hose at places where sulfur or other odor gas may occur.

After installation of the drain pipe, you should check its smooth drainage and water leakage from the connecting joint.

You can Insert the drain pump into the outlet grid at right side and add 1000 milliliter of water to observe whether it can drain water smoothly. Water should be added from the right side of the water outlet through the side board of the heat exchanger. For electric heating series, be sure not to moisten the thermistor.



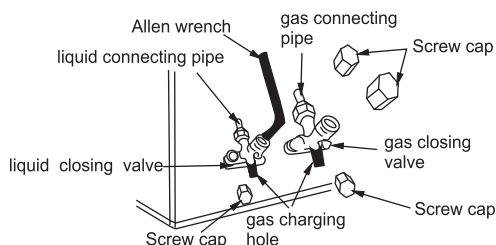
◆ INSTALLATION OF CONNECTING PIPE AND DRAIN HOSE (OUTDOOR UNIT)

● Connect connecting pipe

1. Wipe the airproof oil on the closing valve and the trump extended pipe;
2. Screw down the nut of connecting pipe with the wrench. (the torque as the indoor unit)

● Discharge the air of the units

- Take off screw cap for closing valve and gas charging hole;
- Open the closing valve with Allen wrench (turn 90° clockwise), then push the gas charging hole about 10 seconds, (When the gas like the fog appears, indicating the air of unit is discharge at all.)
- Screw down the screw cap of gas charging hole.
- Proceed leak test with leak detector or soap water.



● Consideration of outdoor drain

In heating mode, freezing water will drop out from the chassis of the outdoor machine. This case must be considered for installation to avoid the influence to the environment.

◆ SUPPLEMENTATION OF REFRIGERANT

When the pipe is over 6 meter long, the fluorine shall be supplemented in accordance with this formula: $A = 50g/m \times (L - 6)$. (A refers to the supplemented amount of fluorine, L refers to the length of the connecting pipe.)

Allowable length of the distribution pipe (one way)	Amount of fluorine to be filled (gram)						
	≤6m	7m	8m	9m	10m	11m	15m
15m	—	50	100	150	200	250	450

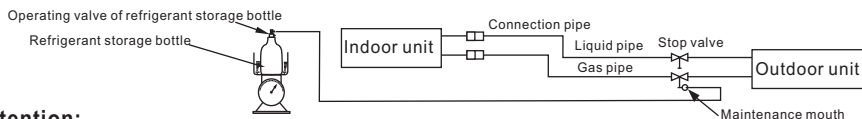
Note: The highest fall of the connecting pipe cannot exceed 8m.

● Steps of supplementation of refrigerant

1. Connect the operating valve of the refrigerant storage bottle to the maintenance mouth of the stop valve with the inflated hose.
2. Loosen the inflated hose joint a bit at the end of the maintenance mouth connected to the gas stop valve. Open the operating valve of the refrigerant storage bottle to vent the air with refrigerant. Emergence of mist gas shows that the air is completely vented out.
3. Observe the spring balance, fill refrigerant with the required amount.

INSTALLATION INSTRUCTIONS

● Steps of supplementation of refrigerant



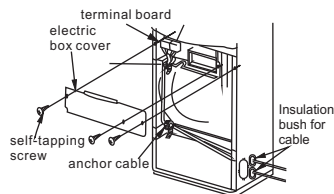
Attention:

- 1 Don't reverse the refrigerant storage bottle while it is inflating.
- 2 To keep the high pressure for refrigerant storage bottle, when the ambient temperature is too low, it can be heated by warm water (around 40°C). Don't heat it with fire or heat steam.

◆ CONNECTION OF POWER SUPPLY WIRES AND SIGNAL WIRES

● Indoor unit

- 1 Remove the self-tapping screws (3 pcs) fixing the electric box cover and take out the electric box.
- 2 Loosen the fixing screw of the power terminal board and signal terminal board, then firmly fix the power wire and signal wire on the terminal board with the fixing screw.
- 3 Fix the connected wires with wire spacer and anchor cable. The ground wire must be firmly connected.
- 4 Since the piping is likely to have condensate, the power wire and signal wire should use insulation sleeve to avoid contacting the pipe. Install the electric cover.



● Outdoor unit

Wiring route of the outdoor unit goes together with that of tubing.
Please refer to installation of refrigerant pipeline(P21) .

Note:

- 1 If you find the color of connecting cable not comply with the top diagram, please take real objects as major reference. But the terminal of the same sign must be joint with the connecting cable of the same color.
- 2 The power wire and signal wire between the indoor/outdoor units must be connected one by one as per corresponding number on the wiring terminal board.
- 3 If the signal wire has to be bought separately, choose electric wire above 0.75mm².

BRÜHM products are intended for household use only

BRÜHM has policy of continuous improvement in product quality and design.

The company, therefore reserves the right to change the specification of its model at any time.

Environment Friendly Disposal



You can help protect the environment!

Please remember to respect the local regulations:

Hand in the non-working electrical equipment to an appropriate waste disposal center

Trouble shooting:

Type of failure	The lamp flash	Display of LED
The failure of room temperature sensor	Once/cycle	E1
The failure of indoor coil pipe temperature sensor	Twice/cycle	E2
The failure of outdoor pressure switch, relative wiring or circuit	5 times/cycle	E5
The failure of indoor fan motor	6 times/cycle	E6

IF PROBLEMS PERSIST, CONTACT AN APPROVED BRUHM SERVICE TECHNICIAN. ALWAYS USE A CERTIFIED TECHNICIAN/ELECTRICIAN.

E1/E2

- 1、To check whether the resistance of the sensor is normal (the resistance is $5K\Omega$ at the normal temperature 25°C), when it is abnormal the sensor should be replaced.
- 2、To check whether there is short circuit or open circuit in the wire of the sensor, and whether the plug is connected well, whether there is welding off or rosin joint on the PCB, if there is any, it should be repaired.
- 3、When the 1 and 2 are both normal, then the components or integrated circuit is damaged, the PCB should be replaced.

E5

- 1、To check whether the wiring of the outdoor pressure switch is correct and reliable or not;
- 2、To check whether refrigerant of system is normal or not;
- 3、To check whether the outdoor pressure switch works well or not.
- 4、To check whether the power source is normal or not (voltage\phase)

E6

- 1、To check whether two plugs of the motor have loosed from the socket of the PCB, insert it firmly when loosing.
- 2、To check whether the indoor motor has damaged, including coil winding, mechanic problem, etc, the motor should be replaced when it is damaged
- 3、To check whether the controllable silicon (or relays) and other components on the PCB have damaged, replace the controllable silicon (or relays) or PCB when they are damaged.

