



VRF DC INVERTER VRF WALL-MOUNTED Installation and User's Manual



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.

Notes

The outline drawing of air conditioner in the Instructions is only a sketch map;

When you are ready to use it, please be sure to read the "precautions" to avoid the damage of the air conditioner or the occurrence of other accidents due to your mis-operation;

This Instructions is the installation instructions for wall-mounted indoor unit, and please select the relevant parameters and descriptions in the Instructions according to the model you purchased;

Table of Contents

Operation

Instructions to Users.....	2
Name and Functions of Various Parts of Air Conditioner.....	4
Operation and Performance of Air-Conditioners.....	6
Operation of Remote Controller.....	8
Maintenance and Servicing.....	11
Phenomenon Analysis and Solutions.....	12

Installation

Selection of Installation Location.....	14
Installation of Indoor Unit.....	15
Application Control.....	17
Indoor machine fault display.....	17
Trial Run.....	18

Instructions to Users

■ Operation Conditions

● Surrounding Environment

Do not install the air conditioner in the place where there is possible leakage of flammable gas. In case of any leaked gas gathered around the machine body, there will be a risk of explosion.

There shall be no obstacle at air inlet/outlet that impedes the air circulation. There shall be no stronger electromagnetic interference in its workplace.

● Characteristics of Heating Operation

Preheat: here is a preheating period of 2-5min when the indoor unit begins its heating operation. The warm wind will be blown out only after the preheating period. When the room temperature is lower, ** the electric heating function will be automatically activated.

Defrost: the air conditioner will activate the automatic defrosting operation to improve the heating effect when the outdoor is frosted during the heating process. During the defrosting process, the fans of both indoor unit and outdoor unit will stop and it will automatically restore to the heating operation after the end of the defrosting operation.

■ Inspection before the Operation

● New Air Conditioner

1. Check whether it is rationally installed;
2. Check whether the remote controller is equipped with the batteries;
3. Check whether it is connected to the power supply.

● Used Air Conditioner

After a period of inactivity, the used air conditioner shall be carefully checked when it is re-used, and attention shall be paid to the following circumstances:

- There is an abnormal heat or a burning smell for power cord or plug,
- There is an abnormal sound or serious vibration during the running process;
- There is a water leakage for the indoor unit;
- The metal shell is charged;
- Other abnormalities or failures.

In case of any of the said circumstances, please stop the air conditioner and be sure to contact the air conditioner service center for an inspection in order to prevent the occurrence of any accident.

■ Safety Rules

Danger

1. Do not pull out the power plug to stop the operation of air conditioners, or it may cause the electric shock, fire and other accidents;
2. Do not connect the power cord to the middle outlet. Prohibit to use the extended cord or share an outlet with other appliances. Otherwise, it may cause the electric shock, fire or other accidents;
3. Do not operate the switch with wet hands, which may cause the risk of electric shock;
4. Make sure that the power plug is firm. If it is not firm, it may cause the electric shock, heat or fire;
5. Do not damage the power supply or use the power cord that is not specified, or it may cause the electric shock or fire;
6. Do not use the fuse or other metal wire with incorrect capacity. It may cause the accident or fire if other metal wire or copper wire is used;
7. Do not repair or move the air conditioner by yourself, or it may cause the accident or fire;
8. Do not leave the chemical sprays near or spray them against the air conditioner, or it may cause the fire or explosion. The chemical sprays must be left at a distance of at least 1m away from the indoor unit;
9. Please turn off the A/C switch immediately to stop its operation in case of any abnormal phenomenon. The continuous operation in trouble may cause the fire, electric shock or other serious accident;
10. Do not place the combustion appliances at the place where can be reached directly by the air of the air conditioners. It may produce the carbon monoxide poison due to the incomplete combustion of the combustion appliances;
11. The indoor ventilation must be frequently made when the air conditioner and the combustion appliance are used in the same room. Otherwise, it may cause danger of hypoxia;
12. Do not insert the fingers or sticks into the air outlet of the outdoor/indoor units, or it may cause harm;
13. Do not stack the objects on the air conditioner, or it may cause the falling of the air conditioner to lead to injury;
14. Do not wash the air conditioner, or it may cause the electric shock;
15. The power supply available to the user must be grounded as per the national regulations on electricity safety, and the tap water pipes and gas pipes cannot function as the grounding conductor, or it may cause the safety accident;
16. Do not knot, stretch, weigh and heat the power cord, or it may damage the power cord. The use of damaged power cord may cause the electric shock or fire;

Warning

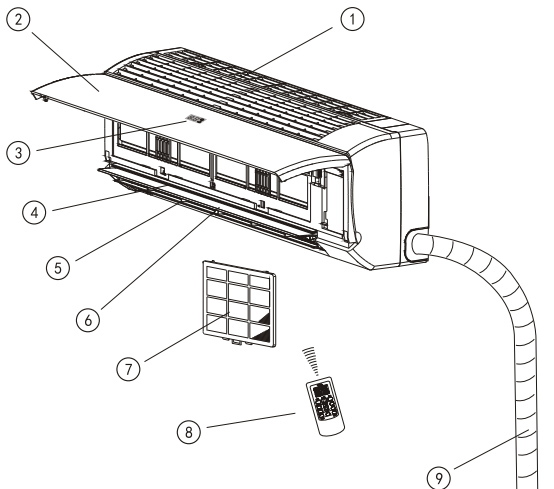
1. Please remember to check the supporting members of the indoor/outdoor units. In case of any damage, please repair it immediately to avoid the injuries;
2. Please disconnect the main power switch before cleaning or maintaining this machine, or it may cause the accidents;
3. The indoor unit cannot be separately powered off unless all indoor units in the same system are powered off simultaneously.
4. Even if it is not used for a long time, the power supply of the indoor unit cannot be cut off unless all indoor units for the same outdoor unit system are powered off simultaneously.

Cautions

1. It is necessary to try the best to reduce the heat of the room and prevent the sunlight and hot wind from entering the room during the cooling process of the air conditioner;
2. Do not allow the air of air conditioner to be blown directly against the skin for a long time, which may not be conducive to a good health. It is required to adjust the up/down and left/right wind directions to obtain a uniform room temperature;
3. Do not block the air inlet/outlet of the indoor/outdoor units, or it may affect the efficacy of the air conditioner or even cause the downtime.

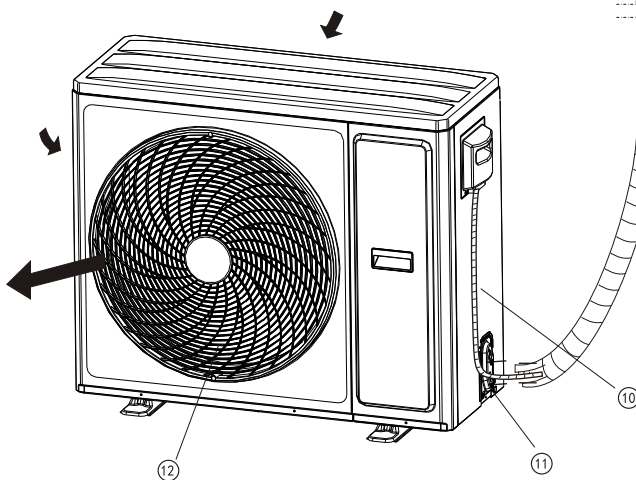
Name and Functions of Various Parts of Air Conditioner

■ Indoor Unit



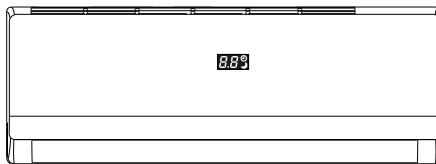
- (1) Air Inlet
- (2) Panel
- (3) Host Display Section
- (4) Air Outlet
- (5) Adjusting Plate for Leftward Wind Direction
- (6) Adjusting Plate for Up/down Wind Direction
- (7) Air Filter
- (8) Remote Controller
- (9) Refrigerant Pipe
- (10) Power Cable
- (11) Shut-off Valve
- (12) Outlet Grille

■ Outdoor Unit



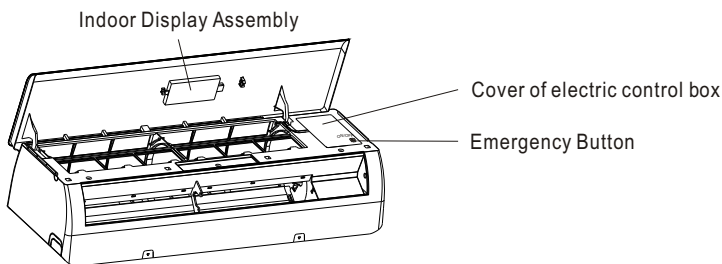
■ Display and Emergency Operation

(1) Display of Indoor Unit



(2) Emergency Operation

● When the remote controller does not work, the emergency switch shall be found for an emergency operation. As for the indoor unit of this model, You can find the emergency button in the ON/OFF position at the bottom right of the control box cover.



● You can hear a short sound "beep" by pressing the emergency switch in the standby mode, and then the air conditioner enters a "COOL" mode.
You can hear two short sounds "Beep" by pressing the emergency switch for continuous twice within 3 seconds in the standby mode and the air conditioner enters a "HEAT" mode.
You can hear a long sound "Beep" by pressing the emergency switch in the ON mode and the air conditioner is then powered off.

Caution:

The compressor delay protection, cooling and anti-freeze protection, overheating protection, thermistor protection and defrosting operation is valid during the emergency operation; During the emergency operation, the emergency operation will be exited to execute the setting operation by the remote controller when the valid signal of the remote controller is received.

Operation and Performance of Air Conditioners

3min Protection

- It cannot be started for operation within 3min after the shutdown of the compressor, which belongs to the self protection of the compressor.

Characteristics of Heating Operation

- The indoor unit will not supply hot air when its run is started, and the hot air will be supplied after 3-5min (this time is postponed or advanced according to the indoor/outdoor temperature) and after the indoor heat exchanger becomes warm; during the running, if the outdoor temperature is higher, the air supply motor of outdoor unit may stop work

Defrosting during the Heating Operation

- In case of any frosting circumstance for the outdoor unit during the heating operation, the defrosting operation will be automatically carried out (about 2-10min) to improve the heating effect, and at this moment, the water is drained from the outdoor unit.
- The air supply motors of both indoor unit and outdoor unit will stop work during the defrosting operation.

Running Condition of Air Conditioner

Please operate the air conditioners according to the following conditions.

Cooling Operation	Outdoor air temperature	-5°C - 52°C
	Room temperature	16°C-32°C
	Room temperature	If it is operated for a long time in a state with the humidity is over 80%, it may condense the dew water on the surface of indoor unit or it may blow out the vaporous cold air from the air outlet.
Heating Operation	Outdoor air temperature	-20°C - 24°C
	Room temperature	15°C-31°C

It may affect the normal operation in other conditions rather than the said conditions;

■ Protection Device (High Voltage Switch)

This device is a " device that can automatically suspend the operation in case of a forced operation " ;

Under the condition that the protection device actuates, The RUN Indicator Light is still ON even if the run is stopped;

When the protection device actuates, the Spot-inspection Indicator Light will flash.

The protection device may be started in case of any of the following circumstances.

▲ In the cooling mode:

- The air inlet or outlet of the outdoor unit is blocked;
- The strong winds continue to blow toward the air outlet of outdoor unit;

▲ In the heating mode:

- The dust filter of indoor unit is adhered with excessive dust or garbage;
- The air outlet of indoor unit is blocked.

Please turn off the manual power switch when the protection device actuates, and re-start it after finding the causes and dealing with them.

■ Power Failure

- Please stop all operations in case of any power failure during the running;
- The RUN indicator light of the wired remote controller flashes when it is re-started after a power failure.
- Please re-press the RUN/STOP key when the machine is re-started;

■ In case of an error during the running

Please turn off the manual power switch in case of any error resulted from the lightning or car radio during its running process, and then re-press the RUN/STOP key after it is re-started.

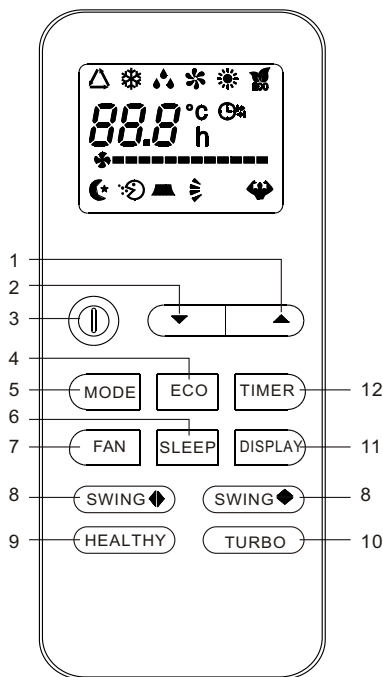
■ Heating Capacity

- Because the heating is a kind of heat pump manner that absorbs the heat from the outside and emits the heat in the room, the heating capacity will reduce once the outdoor temperature reduces.
- It is recommended to use the machine together with other heating equipment when the outdoor air temperature is lower;
- In the extremely cold region whose outdoor air temperature is extremely low, the heating effect will be better if the additionally purchased electric auxiliary heating equipment for the indoor unit is used.

Operation of Remote Controller

① Name and Function (for sake of description, the following diagram presents all display contents, but only corresponding contents will be displayed in the actual operations)


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 function 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



SELF-INDUTION indicator	ECO indicator	FAN SPEED indicator	88.8 ^h Setting time indicator
COOLING indicator	SUPER indicator	HEALTHY indicator	88.8 ^{°C} Setting temperature indicator
DEHUMIDIFYING indicator	BATTERY indicator	Lack of electricity indicator	
FAN ONLY OPERATION indicator	SILENT indicator	SILENT indicator	
HEATINGG indicator	TIMER indicator	SLEEP indicator	

- ★ Some functions will still be displayed in the remote controller even if the air conditioner is stopped;
- ★ The said remote controller is only a schematic view, and its actual physical appearance shall prevail in the actual application.
- ★ The remote controller for single-cooling air conditioner has no heating function.




② Selection of RUN Mode (Operation Mode)

- In the ON state of the air conditioner, the following operation modes can be selected via the switch button ():

1 Self-induction Mode

The self-induction mode is invalid for this machine, and it is necessary to maintain the operation mode before setting the self-induction mode.

2 COOLING Mode

In this operation mode, set the temperature via the temperature setting Keys ( ); Adjust the A/C air supply volume via the adjusting Key ().

3 DRY Operation

In this operation mode, the fan speed of indoor unit is controlled by the microcomputer and the temperature setting Key does not work. The A/C microcomputer will make an automatic adjustment according to the room temperature.

4 FAN Mode --- Single-Cooling Machine





In this mode, the outdoor unit does not work and the fan of the indoor unit works. At this moment, the air conditioner can only function as the fan and air filter to adjust the blowing angle and speed.

5 HEATING Mode --- Cooling/Heating Machine





In this mode, the operation method is just like the cooling operation, and the temperature and air volume can both be adjusted, and its temperature range is 16-31°C. The electric auxiliary heat of the auxiliary heat air conditioner can automatically exit or start according to the air temperature during the heating process.

③ Timer Operation

" OFF Timer "

Under the condition that the remote controller is ON, press the key () to set the OFF Timer and press the adjustable key ( ) to set the required time, and finally press the key () to confirm the setting time.

" ON Timer "

Under the condition that the remote controller is OFF, press the key () to set the ON Timer and press the adjustable key ( ) to set the required time, and finally press the key () to confirm the setting time.

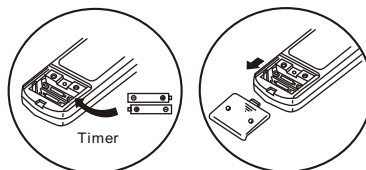
Caution: when the timer function is used, please be sure to put the remote controller in a location that the signals can be received by the indoor unit.

After the power failure or circuit breakage, it is necessary to re-set the timer, or the deviation or malfunction will occur.

④Installation of Battery

When the signal reception is unresponsive or its display is blur, it may indicate a low electric quantity and the battery shall be replaced in time.

1. Pull down the rear cover as per the arrow direction;
2. Place the battery as per positive and negative poles;
3. Slide it up to mount the rear cover of the remote controller.



⑤Operation of Remote Controller and Precautions

- A. Do not mix and use the batteries of different types, including mixture of new or used batteries;
- B. Take the batteries out to prevent the leaked liquid from damaging the remote controller if it will not be used for a long time;
- C. Do not place the remote controller near the high-temperature objects, such as, electric blankets or heating furnaces;
- D. The remote controller shall be away from the television set or sound equipment for at least one meter;
- E. The liquid or water is prohibited to be spilled onto the remote controller;
- F. Do not place the remote controller in the direct sunlight or strong light;

Cautions: if the remote controller becomes malfunction, please replace the batteries and try it again. If it still does not work, please feel free to contact the dealer .

Battery Disposal

Do not dispose of batteries as unsorted municipal waste. Refer to local laws for proper disposal of batteries. Batteries may have a chemical symbol at the bottom of the disposal icon. This chemical symbol means that the battery contains a heavy metal that exceeds a certain concentration. An example is Pb: Lead ($>0.004\%$).

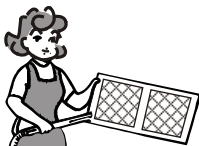
Appliances and used batteries must be treated in a specialized facility for reuse, recycling and recovery. By ensuring correct disposal, you will help avoid possible negative consequences for the environment and human health.



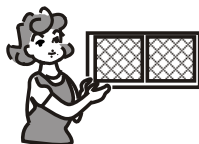
Maintenance and Servicing

■ Cleaning

A. Cleaning of A/C strainer (filter screen) or health strainer (about once a month)



1. Take off the air filter and open the panel for an angle to pull down the strainer;
2. Clean the strainer;
3. Mount the strainer.



Clean the dust filter (strainer) with the dust collector or water. If the dust filter is too dirty, it can be rinsed by warm water dissolved with the neutral detergent.

Notes: (1) do not clean it with the hot water with a temperature of over 40°C. Do not dry it with an open fire or do not strength it with a force.

Install the strainer and the panel. To run the air conditioner without air filter will reduce the performance.

B. Cleaning of Panel of Indoor Unit:

1. Unplug the power plug after the shutdown;
2. Remove the panel;
3. Wipe it with a soft cloth. Wipe it with the warm water of below 40°C if it is too dirty;
4. Do not wipe it with the volatile substance (e.g. gasoline, polishing powder, etc.), or it may damage the products;
5. Never sprinkle the water onto the surface of indoor unit, because it may cause the electric shock;
6. Mount the panel and fasten it for a trial run.

■ Maintenance and Servicing

In the process of using the home appliances, maintenance is an important part. A good maintenance can effectively extend the service life of the home appliances, including the air conditioners. In the use, before and after the use, you can maintain the air conditioners as follows:

A. The following shall be guaranteed while it is not used for a long time:

1. Start the fan and set it into a mode of Air Supply to operate for 3-4 hours to completely dry up the air conditioner;
2. Even if it is not used for a long time, the power supply of the indoor unit cannot be cut off unless all indoor units for the same outdoor unit system are powered off simultaneously;
3. Take out the batteries from the remote controller.

B. When it is used again after a long-term shutdown


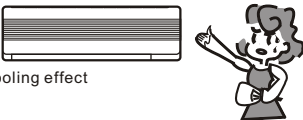
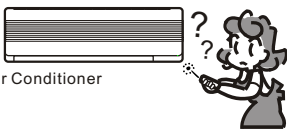
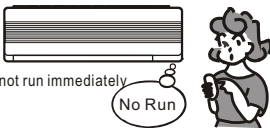
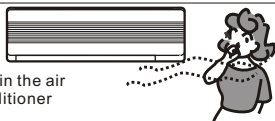
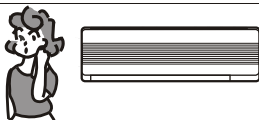
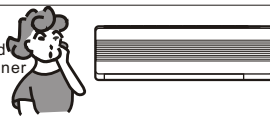
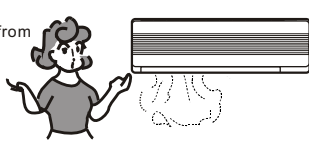
1. Cleaning of dust filter and Indoor Unit

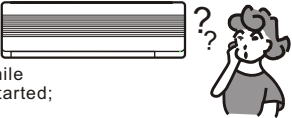
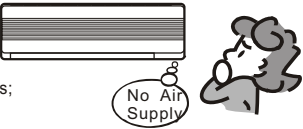
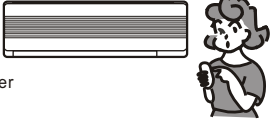
The dust filter and indoor unit can be cleaned only after the machine is stopped and the power plug is unplugged. Please use the soft cloth to wipe off the indoor unit and do not clean the machine with gasoline, benzene, dilute alkali, crocus (abrasive powder), detergents, pesticides, and other things that can damage the machine;

2. It is necessary to confirm that the inlet/outlet of indoor units or outdoor units is not blocked by debris;
3. It is necessary to check whether the earth wire is loose and it is energized or not.

Phenomenon Analysis and Solutions

The following phenomena may not be the fault of the air conditioner, so it is necessary to check it by yourself before contacting the service center for repair so as to save your time and expense.

Phenomenon Description	Cause Analysis
 <p>Air Conditioner does not work</p>	<ul style="list-style-type: none"> • Whether the remote controller is in a state of ON Timer? • Whether the current protector or fuse is broken? • Whether the power plug comes off? • Whether the battery of the remote controller is dead? • Whether the protective device of air conditioner actuates?
 <p>A poor heating/cooling effect</p>	<ul style="list-style-type: none"> • Whether the room door is closed? • Whether the air inlet/outlet of indoor/outdoor units is blocked? • Whether the temperature is set appropriately? • Whether the dust filter is blocked due to an excessive dust?
 <p>Malfunction of Air Conditioner</p>	<ul style="list-style-type: none"> • There is a strong interference in the use (e.g. excessive electrostatic discharge, abnormal supply voltage, etc.), which lead to the malfunction of the air conditioner. In this case, it is necessary to remove the power plug and plug it again 2-3seconds later.
 <p>Air Conditioner cannot run immediately</p>	<ul style="list-style-type: none"> • The air conditioner cannot run immediately when the mode is switched during the RUN process. It is required to wait for 3min to re-start the compressor.
 <p>A peculiar smell in the air from the air conditioner</p>	<ul style="list-style-type: none"> • During the RUN process, the air conditioner will inhale the peculiar smell of the furniture and cigarette and then blow them out.
 <p>Water flow sound in the air conditioner</p>	<ul style="list-style-type: none"> • It is the mobile sound of gaseous " refrigerant " in the air conditioner and it is not a fault.
 <p>A " Buzzing " sound made by air conditioner</p>	<ul style="list-style-type: none"> • It is the friction sound caused by uneven expansion and shrinkage of spare parts due to a big temperature change for startup or shutdown of the machine, and it is not a fault.
 <p>Mist blown out from air conditioner</p>	<ul style="list-style-type: none"> • It is because the water vapor in the room is condensed into mist due to the cold air from the machine during the cooling or drying process, and it is not a fault. • When the indoor environment is too moist, a prolonged cooling or dehumidifying operation can cause the dripping of dew in the vicinity of the air outlet.

Fault		Cause Analysis
No air supply while the heating is started;		<ul style="list-style-type: none"> ● Stop the air supply to prevent the cold air supply (2-5min) before the heat exchanger of indoor unit becomes warm;
No air supply after suspending for 5-10min during the heating process;		<ul style="list-style-type: none"> ● The air conditioner will automatically defrost and the outdoor unit will emit the steam when the room temperature is low or high, and after the defrosting, the air conditioner will be automatically restored its operation.
The air conditioner fails to receive the signals of the remote controller		<ul style="list-style-type: none"> ● Whether it is within the acceptance range, or whether there is any obstacle to block the receiver head; ● Whether the battery voltage in the remote controller is sufficient, or it is necessary to replace the batteries; ● If the remote controller is abnormally interfered or its functions are frequently switched or the remote controller cannot be controlled occasionally, it is only required to unplug and re-plug it to restore its normal operation.

■ List of Air Conditioner Accessories

Packing Position	Package of Indoor Unit					
Name of Items	Indoor Unit	Installation Instructions	Mounting Panel	Remote Controller	Batteries	Remote Controller Holder
Quantity	1	1	1	1	2	1

- ☒ 1. Please confirm whether the spare parts in the packing list are complete while unpacking it;
 2. The parts mentioned above are only the schematic map, and it may be different from the accessories of the model you have selected;

Installation

Please carefully read all " Safety Precautions " before the installation;

Please follow the contents of the Instructions to install the machine;

Please carefully read the labels on the machine before the installation;

Warning

- 1、The machine cannot be installed by the user and it must be mounted by the dealer or authorized technical staff;
- 2、Any change of building structure due to the installation must comply with the requirements of local building standards;
- 3、The machine shall be connected by the power cable specified or complied with the requirements;
- 4、All computer operations must be completed by the certified technical staff according to the local regulations and the requirements of the Instructions;
- 5、Please pay attention to the personal safety during the installation;
- 6、Do not power on the machine before the completion of the installation;
- 7、A good ventilation shall be guaranteed in case of any refrigerant leakage during the installation so that its concentration cannot exceed the safety standard due to the leakage of the refrigerant.

Precautions

- 1、The installers shall explain the correct operation and maintenance method to the user according to the Instruction and request the user to carefully read and take care of the Instructions after they mounted the air conditioner;
- 2、The air conditioner cannot be mounted in an area with a high volatile oil (including engine oil) or with sulfur acid mist, or it may seriously reduce the performance of the machine or damage its interior parts;
- 3、It is required to use the fuse with a specified capacity or above;
- 4、Be sure to install a grounded residual current circuit breaker;
- 5、Be sure to install an earth wire;
- 6、If the air conditioner is mounted on the metal part of a building, the electrical insulation operation must be carried out and it must comply with the relevant technical standard of the electrical equipment.

Selection of Installation Position

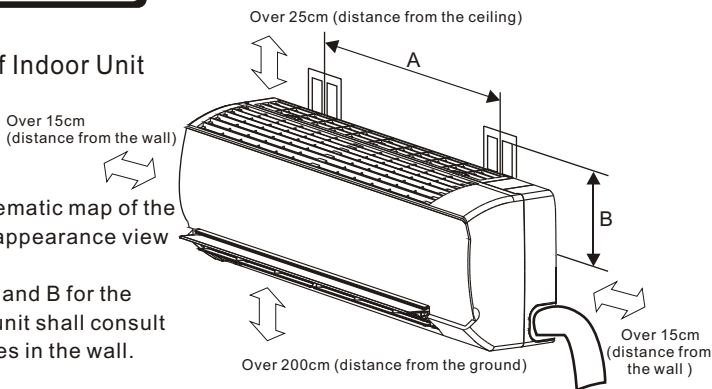
- 1、Select the position that can provide adequate space and maintenance space;
- 2、Select the position that can withstand the weight of the indoor unit;
- 3、Select the position that ensures a unblocked air flow and is least affected by the outside air;
- 4、Select the position that is free from any smoke, open fire and other heat sources or any harmful contamination below the position;
- 5、Select the position through which the air flow can be transmitted to every corner of the room.
- 6、Try the best to select the position that is easy to install the machine.

Installation of Indoor Unit

■ Installation Drawing of Indoor Unit

⚠ Warning:

- ◆ This drawing is the schematic map of the structure rather than the appearance view of the product;
- ◆ The distance of holes A and B for the installation of the indoor unit shall consult the actual distance of holes in the wall.



- When the drainage nozzle is at the right end of the indoor unit (as shown in the said figure), the left end cannot be 10mm lower than the right end and shall not be higher 10mm higher than the right end during the installation of the indoor unit to facilitate the drainage of condensate;
- When the drainage nozzle is at the left end of the indoor unit, the right end cannot be 10mm lower than the left end and shall not be higher 10mm higher than the left end during the installation of the indoor unit to facilitate the drainage of condensate;

⚠ Installation Important Note:

- ◆ Wall-mounted units are strictly prohibited to be installed above sofas, desks and beds, otherwise the operating noise will easily affect daily life;
- ◆ The unit refrigerant additional amount must be added according to the installation instructions, otherwise it will cause the electronic expansion valve throttling failure, which will cause the refrigerant flow noise problem;
- ◆ Wall-mounted unit connection pipe is not allowed to reducer or fold flat, otherwise it will easily lead to the second throttling of the indoor unit causing noise problems;
- ◆ The same system of the farthest piping length from the outdoor unit to the indoor unit no more than 30 meters, to prevent pressure loss caused by throttling noise;
- ◆ The same system of the installation distance between two indoor units is recommended not to exceed 8 meters, to prevent uneven distribution of refrigerant caused by the drop;
- ◆ The same system of the installation distance from indoor unit to the nearest branch joint can not exceed 15 meters, to prevent the length of the pipe resistance deviation caused by uneven distribution of refrigerant;

■ Installation of Indoor Unit

● Install the wall panel and locate the wall-through holes

1) Find the appropriate position and use a level to adjust the installation panel to a horizontal state;

2) Locate the wall-through holes according to the actual situation. If there is an anti-dismantle protective sleeve that must pass through the wall, the after-sales department is required to use the drill bit with a diameter of $\phi 60\text{mm}$ to ensure the connecting pipe equipped with the anti-dismantle protective sleeve can successfully pass through the hole;

3) When the percussion drill is used to drill the holes, the drill bit shall be identical to the stopper, with a diameter of $\phi 6$. If the borehole cannot be stuffed by the stopper due to the loose materials of the wall, it shall be consolidated by the wood wedge;

4) It is prohibited to use the fixing manner of "cement fastener" + "expansion stopper" while installing the wall panel of indoor unit. The correct fixing manner is as follows:

A. Separately use the cement fastener to fix;

B The fixing manner of "tapping screw" + "expansion stopper";

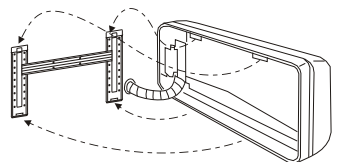
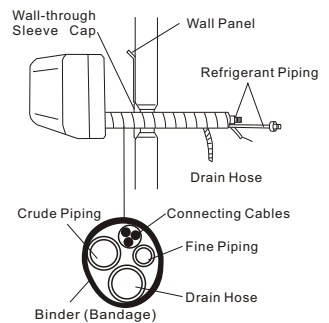
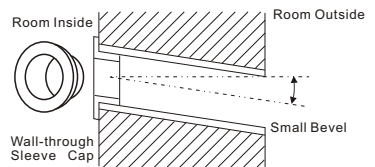
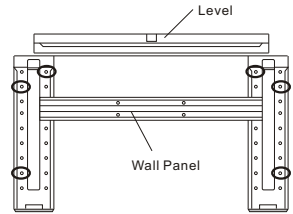
5) Use at least six tapping screws to fix the wall panel. The screws shall be fastened at the load-bearing positions in two sides of the wall panel;

6) After completing the installation of the wall panel, pull it out for few times with a force. The looseness or falling phenomenon is not allowed to ensure the firmness of the fixation.

● Arrange the pipelines and mount the indoor unit;

1) Arrange the connecting pipes, drain hoses and power cables; the drain hose shall be put on the lowest position to facilitate the drainage. The power cord may not be intertwined with the indoor/outdoor cables.

2) Fix the indoor unit onto the wall panel;



Application Control

Set the PCBBoard dial code of electrical control box of indoor unit according to the usages. Before setting the dial code, please be sure to cut off the main power switch and then engage it after the setting. If the power supply cannot be engaged, the setting functions will not work.



" ■ " is the DIP switch position, which has been set up before the delivery of this machine. It can only be operated by the professional staff.

● Functional DIP (SW2) Definition

Description	DIP Position	Description	DIP Position	Description	DIP Position	Description	DIP Position
able for door detection		able for window detection		Factory default		Reserved function	
Disabled for door detection		Disabled for window detection		Reserved function		Reserved function	

● Indoor-unit Type DIP (SW3) Definition

Type	DIP Position	Type	DIP Position	Type	DIP Position	Type	DIP Position
F1 fan coil		F5 fan coil		Q1 smallpox fan		F5 DC unit	
F2 fan coil		F1 fresh air machine		Q2 smallpox fan		Q8 DC unit	
F3 fan coil		ZD standalone and mounted unit		Q8 smallpox fan		Wall-mounted unit	

● Capacity DIP (KNOB1) Definition

Capacity	KNOB1	Capacity	KNOB1	Capacity	KNOB1	Capacity	KNOB1
1800W	0	3600W	2	5600W	5	8000W	8
2200W	0	4500W	3	6300W	6		
2800W	1	5000W	4	7100W	7		

Fault Display of Indoor Unit



● Nixie Tube Fault Display

In case of any fault, the nixie tube will display letter d or b in the first bit, and 1-9 or a in the second bit.
(for example, d8 is d8, b8 is b8, and ba is ba.

Second bit Initial letter	1	2	3	4	5	6	7	8	9	A
d Protection of indoor unit	Internal fan protection (PG locked rotor protection for motor, indoor fan overload protection, DC brushless motor protection)	Auxiliary heat protection	Overflow protection	Anti-freeze protection	Mode Conflict	IP address abnormal (IP is not assigned or IP address conflict)	Capacity DIP error	Program Number Conflict		
b Indoor Hardware Failure	Ambient temperature sensor failure	Inlet temperature sensor failure	Middle temperature sensor failure	Outlet temperature sensor failure	Humidity sensor failure	temperature sensor failure	Indoor EEPROM failure	Swing motor failure	Indoor unit MAC address abnormal	Model code error fault

Trial Run

■ Cautions

- ◆ Confirm all valves are open before the trial run.
- ◆ Check the electrical safety before the trial run.
- ◆ Try the best not to force the run (otherwise the protection device may not work, it is very dangerous.)

1. The trial run cannot be carried out unless all installation operations have been finished.
2. Please confirm the following items prior to the trial run:
 - Whether the installation of indoor/outdoor units is correct;
 - Whether the piping and the wiring are correct;
 - Whether the leakage of piping system of refrigerant has been detected;
 - Whether the drainage is unblocked;
 - Whether the insulation system has been improved;
 - Whether the earth wire is correctly connected;
 - Whether the piping length and the refrigerant adding amount have been recorded;
 - Whether the power voltage is equal to the rated voltage of the air conditioner;
 - Whether there are any obstacles at the inlet/outlet of indoor and outdoor units;
 - Open the gas-side and liquid-side shut-off valve;
 - Power on the air conditioner to preheat it;
3. Install the mounting bracket of remote controller for the users according to the user requirements.
The position of the mounting bracket must satisfy the requirements of successfully transmitting the remote-controlling signals to the indoor unit.
4. Trial Run
Control the air conditioner with the remote controller to practice the cooling operation and check the following items according to the Instructions: (in case of any fault, please solve it according to the " Maintenance and Servicing " in the Instructions.)

■ Indoor Unit

- (1) Check whether the switch of remote controller is normal;
- (2) Check whether the functional keys of remote controller can work normally;
- (3) Check whether the running of air deflector is abnormal;
- (4) Check whether the room temperature can be adjusted normally;
- (5) Check whether the indicator light can work normally;
- (6) Check whether the button of manual operation can work normally;
- (7) Check whether there is any condensate or dripping due to the poor wrapping of connecting copper pipe and drain hose;
- (8) Open the inlet grille to check whether there is any leakage, especially at the place of drainage;
- (9) Check whether there is any vibration or abnormal sound during the running process;
- (10) Test whether it can work normally in the HEAT mode.

■ Outdoor Unit

- (1) Check whether there is any vibration or abnormal sound during the running process;
- (2) Check whether the wind, noise and condensate produced affects the neighbors;
- (3) Check whether there is any leakage of refrigerant;

Notes: after the air conditioner is powered on, the compressor shall be started 3min later when the machine is started immediately or it is restarted after the shutdown because there is a protection function for the air conditioner.



**IMPORTANT INFORMATION FOR CORRECT DISPOSAL OF THE PRODUCT
IN ACCORDANCE WITH 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-out wheeled dustbin.