Free Combination Multi-split Type Room Air Conditioner

AE122BCAAA (H2EM-18H03)



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No. 0010572805

- Please read this manual carefully before using
- Please keep this manual for future use

Operation points



Name of Parts

Indoor unit



Wire controller





<sup>When turning on the unit for the first time, the clock should be calibrated. The method of calibration is:
1.Press "Clock" button, the Clock display "AM" "PM" will flash.
2.Press ▲ to Æjust time. For each press, the time will increase or decrease 1 minute. If depressing the button, the time will increase or decrease rapidly.
3.After confirming the time, press "Set" button, "AM" or "PM" will stop flashing, the clock will begin to work.</sup>





rning
When moving the air conditioner to another installation place, please contact the dealer or the professional installer.
Improper moving and reinstallation may cause water leakage, electric shock and fire accident.





Operation instruction Timer On/Off function

Before using TIMER function, calibrate the clock first (referring to page 3). When you wake up in the moming, before going back to home after work or after going to bed, you can let your air conditioner automatically turn on or turn off.



1. Turn on the unit

After turning on the unit, set the desired working mode. The LCD of the wire controller will show working mode. (except for Timer, Sleep, Swing)

2. Set of TIMER mode

Press the TIMER button to change the TIMER mode, each press the TIMER mode will change as the following sequence:



Then choose the timer mode as you need (TIMER ON or TIMER OFF.) At this time the ON or OFF will flash.

3. Set time

Press the time adjusting button

▲ Each press, the set time increases 10 minutes. If depress the button, the time will increase rapidly.

▼Each press, the set time decreases 10 minutes. If depress the button, the time will decrease rapidly. This LCD will show the time set, the time can be adjusted within 24h.

(AM stands for morning, PM stands for afternoon).

4. Confirm the time

After calibration of the clock, press SET button to confirm time. At this time, the ON or OFF will not flash. The time displayed is: at x oíclock x minutes the unit will be turned on (TIMER ON) or turned off (TIMER OFF).

Cancel TIMER

Press the TIMER button several times until the TIMER mode display disappears.

Hints:.

After power failure, the clock should be calibrated again. The wire controller has memory function, when you use this function for the second time, if the time set is the same as the previous one, you just need to choose the TIMER mode then press the SET button to confirm.



Operation instruction

Sleep operation

Before going to bed, you can press the SLEEP button, the air conditioner will operate in comfort sleep mode to make you have a sound sleep.

Before using this function, you should calibrate the clock first, otherwise, the SLEEP function will be out of order.

Use of SLEEP function

After turning on the unit, setting the working mode, then press SLEEP button to make the air conditioner have the previous Sleep time (powered on for the first time or after performing Sleep is 1h). The Sleep symbol will appear. Press time ▲/▼ button, you can choose between 1~8h. Each press, it may increase/decrease

1h and will display in the humidity area with *ìxhî*, and display *ìTimer Offî* in Timer Off area and the time to turn off; press Sleep button again to cancel Sleep

Operation modes

1.In COOLING, DEHUMIDIFYING operation

1 hour later in SLEEP operation, the temperature will increase 1°C from the set temperature, another 1 hour later increase another 1°C, then the unit will operate continuous for 6 hours, then it turns off automatically. The temperature is higher than set temperature to prevent you from getting a cold.

2.In HEATING operation

1 hour later in SLEEP operation, the temperature will decrease 2°C from the set temperature, another 1 hour later increase another 2°C, then the unit will operate continuous at this temperature for 3 hours, then it increases 1°C, after operating at this temperature for another 3 hours, the unit

will turn off automatically. The temperature is lower than set temperature to prevent you from feeling uncomfortable during sleep.

3.In AUTO operation

The air conditioner will operate in the relative Sleep operation according to the operation mode.

4.In FAN operation

SLEEP operation cannot be applied.

Note:

- After setting Sleep function, it is not permitted to adjust clock.
- The Sleep time is less than 8h, after reaching the set time, the unit will automatically stop.
- Set Sleep function after setting i Timer Offi function, the air conditioner will perform Sleep function.
- After setting Sleep function, the Timer function cannot be set.
 Set Sleep function after setting i Timer Oni function, the Sleep function can only be set in the set time of Timer On.



In HEATING op







Maintenance

When maintaining, do turn off the manual power switch.

Daily cleaning

Clean air conditioner and wire controller

- Use soft cloth to dry clean
- If there is too much dirt on the air conditioner panel, please soak the cloth with water, and then clean it. (The wire controller cannot use water to clean, it should use dry cloth to clean.)
- It is forbidden to use gasoline, diluent, eradicator powder and chemical dishcloth etc. to clean, otherwise it may cause deformation and crack.





Maintenance after the using season

- In a sunny day and FAN mode, let the unit operate about half a day to make the inner part of the unit dry.
- Turn off the operation switch of the air conditioner, cut off the power switch. Otherwise, even the air conditioner is in OFF state, it will consume certain power.
- Clean the air filer and the system of indoor unit, wash and clean the outdoor unit, and use dustcoat to cover the unit.

Maintenance before the using season

- Check if there are any obstacles in the air inlet and outlet of indoor and outdoor unit to avoid the working efficiency drop.
- Please check first
- Please do install the air filter and insure it is not dirty. Otherwise, the unit is damaged or has trouble due to the dust entry into the unit.
- In heating, in order to protect the compressor in starting the unit, please switch on the power switch of the unit 12 hours in advance before using it, and in using season, please always keep the power switch in ON state.



Troubleshooting

Before as the special repair center for help, please check the following items of the air conditioner

\bigcap	Symptom	Cause
Not troub	Hear the sound of water flow	The water flow sound when operation starts; during operation and shortly after operation stops, in 2-3 minutes shortly after the operation starts, sometimes the sound becomes louder. This is the sound of refrigerant flow and the draining sound of condensate water.
	In DEHUMIDIFYING, no air sent out or cannot change the fan speed.	In DEHUMIDIFYING operation, when the room temperature is 2°C higher than the set temperature, despite of the set FAN SPEED the air conditioner will operate in LOW FAN SPEED.
	Having peculiar smell in the out air	Because the smells generated by wall, carpet, furniture, clothes, cigarette and cosmetic, etc. attached on the air conditioner.
	The stopped indoor unit gives out sound, white vapor or cold air.	In order to prevent the oil and refrigerant from resorting in the indoor unit, there is refrigerant flow in very short time, so they give out ìSha, Shaî, ìGulu, Guluî. Additionally, when the other indoor units perform HEATING operation, sometimes white vapor appears; when the other indoor units perform COOLING operation, cold air appears.

If there is the following symptom and check they are the following causes, please solve them according to the below given methods.

Symptom	Causes		Solution	
The unit does not work	The fuse is blown out or the breaker is open-circuit.	Change fuse or close breaker		
Once the unit starts, it stops immediately	The air inlet or outlet of indoor and outdoor unit is blocked	Remov	ve the obstacle	
Abnormal	The air inlet or outlet of indoor and outdoor unit is blocked	Remov	ve the obstacle	
Abnormal COOLING or HEATING	Improper set temperature	Refer	to page 7	
	The fan speed is set too low	Refer t	o page 7	
	Doors or windows are open	Close	them	
The unit does not work T not work Once the unit starts, it stops immediately T o Abnormal COOLING or HEATING T T E T	Direct sunshine. (COOLING)	Hang	curtains or blinds before	window
	Too much people in room (COOLING)			
	Too many heat sources in room (COOLING)			
	Trouble Contents		Code Displayed	

Trouble Contents	Code Displayed
Indoor temperature sensor trouble	F1
Inner pipe coil sensor trouble (thin pipe)	F2
Inner pipe coil sensor trouble (thick pipe)	F4
High pressure trouble (pressure)	F5
Drainage trouble	F6

If after the above checking and treatment, the air conditioner still cannot work normally, or find the following phenomena, please stop the unit and contact the commissioned service center.

• The fuse or breaker is often blown out or open circuit.

• In COOLING or DEHUMIDIFYING, there is water leakage.

- Abnormal operation or abnormal sound be heard.
- The display screen of the wire controller shows trouble code indicating the unit has trouble.

When Troubles Occur

- Before installing, do read this iSafety precautionsî carefully to guarantee theproper installation.
- The below attentive matters are divided into ì ▲Warningî and ì▲Noteî two parts. When the wrong
 installation occur, it is very possible death and severe injury and other serious accidents will happen.
 For those items are listed in ì▲ Warningî part. But even the items listed in ì▲ Noteî part can also
 cause serious accidents. Above all,both the two parts are very important contents related to safety,
 so they must be obeyed.
- After finishing the installation work, do test run to verify everything is normal. After that please explain the using and maintenance methods to the user. Additionally, give this installation manual and operation manual to the user and ask them to keep it properly.

▲ Warning

- The commissioned repair center shall do the installation work. If you do the installation work by yourself, the improper installation will cause water leakage, electric shock fire and other accidents.
- The installation work shall be in line with what the installation manual specified. If installation is not proper, water leakage, electric shock, fire and other accidents will occur.
- Install the air conditioner to a place where can definitely stand its weight. The air conditioner can not be installed on a nonmetal bracket (such as theft guard net). Places not firm enough will cause drop down of unit resulting in body hurt.
- The installation work shall be preventive to typhoon and earthquake. If the installation work is not met with the requirements, overturn of the unit will occur resulting in accidents.
- Using the specified cable to do wiring work and connecting firmly and properly. Fix the connecting part of the terminals to prevent it from the external force. Improper connection and fixing will cause heating and fire etc. accidents.
- Wiring shall be kept in correct shape avoiding extrusion. After installation, the electric box cover and the external panel shall not nip the wire. Improper installation will cause heating and fire etc. accidents.
- When setting or moving the air conditioner do not let the air and things alike get into the refrigeration system except the specified refrigerant (R22). If air and other things enter, abnormal high pressure will occur, which easily cause break and body injuries etc. accidents.
- When installing, do use the accessories or specified parts. If not using the parts specified by our company, water leakage, electric shock, fire and refrigerant leakage will occur.
- Do not lead the drain hose to drain where the sulfur gas may be involved. Otherwise, the poisonous gas will enter into the indoor.
- During installation, if refrigerant leakage occurs, do the ventilation work immediately. As soon as the refrigerant gas meets fire, poisonous gas will be produce.
- After installation, confirm there is no leakage of refrigerant. If the refrigerant gas enters into room
 and meet the air blowing heater, heater or stove etc. fire source, the poisonous gas may be produced.
- Do not install the unit in a place where the combustible gas may be leaked. In any case
 the combustible gas leaks and accumulated around the unit, fire accident will occur.
- The drain hose should be correctly installed according to the installation manual to ensure smooth drainage, and take proper heat preservation measure to prevent from dew. Improper pipe installation may cause water leakage result in wet the indoor articles.
- Do heat insulation work to the refrigerant gas pipes and liquid pipes to reach the purpose of heat preservation. If the heat insulation measure is not sufficient, water generated by condensing dew will drip leading to wet the floor and indoor articles.

\triangle Notice

- Do grounding work. Do not connect the grounding wire to gas pipe, tap, lighting rod or telephone line. Improper grounding will cause electric shock.
- In some places the creepage breaker shall be installed. If do not install the breaker, electric shock may occur.
- A
- After electric installation, power on them to do electric leakage test.

Installation instruction

▲ Notice

This manual can not include all kinds of conditions, if you have new requirements and questions, please contact with local Haier Sales Center.

\triangle Warning

2. Steel saw

4. Spanner (diameter 17,27mm)
6. Pipe cutter
8. Knife

10. Leakage detector/soap water

Before installing the unit, please read this manual carefully. Improper installati on may cause accidents and make unit damage or death. Installation tools

- 1. Screwdriver
- 3. 60mm 70mm diameter drill
- 5. Spanner (14, 17, 19, 27mm) 7. Pipe flarer 9. Pincers

- 11. Tape measure

Standard accessories

The following parts mentioned in this manual are self-provided installation parts.

	Mark	A	В	С	D	Е	F
]	Name of parts	Adhesive tape	Pipe supportin g plate	Connection pipe	Drain hose	Nonbibulous thermal insulation material	Plaster powder

12. Scraper

Accessories attached with the unit

The following lists the accessories attached with the unit, please use them according to the installation needs.

NO.	1	2	3	4	5	6
	Wire controller	Signal wire	Gasket	Wire clamp	Thermal insulation pipe	Manual
& name		6	0			
Amount	1	1	8	*	2	1

Installation instruction

1. Installation of Duct

1)E	Ouct material		
Туре	Material	Structural characteristic	Main use
	Normal thin steel	Good processing performance and structural hardness	
sheet	Galvanize steel	Good anticorrosive performance	Generally used in ventilation duct system
Thin metal s	Aluminum orits alloy	Good processing performance, corrosion resistant, uneasily sparkle	Storm protection system in ventilation engineering
Thin	Stainless steel	Anticorrosive, acid-resistant	Anti-corrosive ventilation engineering in chemical industry
	Aluminum foil soft metal duct	Soft with compression resistant, simple installation with vibration resistance	Widely used
	Plastic compound steel	Sprayed a layer of 0.2~0.4mm plastic on the normal thin steel	Air conditioning system needing good dust protection and anti- corrosive system under 10~70*
Nonmetal material	Stiff PVC plastic	Anti-corrosive, glazed surface, easy production	Applicable to the ambient condition of 0*60 *, ventilation system with corrosion of acid gas
ΖË	Glass fibre reinforced plastic	With light, high intensity, noncombustible, anti-corrosive, high temperature resistant characteristic	Anti-corrosive, glazed surface, easy production

2) Sectional shape of duct (mainly has rounded and rectangular two shapes)



3) Connecting mode

The dimension of rectangular duct is the same as the air outlet of indoor unit, can be directly connected; the rounded duct needs to be added with a static pressure box to connect with the air sending outlet of indoor unit; independently introduced to respective distributor by rounded duct. In order to meet the requirements of room air conditioner, the fan speed in each air outlet of any distributor shall be adjusted to basically the same.



∧ Notice

• Do not install the air conditioner at the place where the combustible gas maybe leak. In case of the leaked gas gather around the unit, it may cause fire accident.

The indoor unit should be installed in the place where the cool air and warm air may evenly circulate.

Avoid the following places:

- Place with too much salinity (coastal area).
- Place with too much sulfuration gas (mainly is the hotspring area, the copper pipe and brazed part are easily corroded).
- Place with too much oil (including mechanical oil) and vapor.
- Place using organic solvent.
- Place with machines may generate high frequency electromagnetic waves. (The control system may have abnormality)
- Place near the doors or windows that come close to the external high humidity air. (may easily form dew)
- Place where the special sprayer may be frequently used.
- On vehicles, boats and ships.
- Place less than 1m away from TV, radio, radio devices and fluorescent lamp.

Indoor unit

1. Choose the place where the air from the air conditioner can spread throughout the room and where the connection pipe, connection wire and drain hose may be easily arranged to the suitable outdoor position.

2. Choose the place where the vertical distance between the center of air outlet and the ground is no more than 2.7m.

3. The structure of the ceiling should be firm enough to bear the weight of the unit.

4. The connection pipe, drain hose and connection wire can penetrate through the wall and connect indoor and outdoor unit.

5. The connection pipe and drain hose between indoor and outdoor unit should be as short as possible.

6. The connection flare should be provided by user.

Safety precautions

 For those models with electric heat function, it is forbidden to directly connect the air outlet with canvas and material alike inflammable interfaces.
 When installing indoor unit, it is necessary to leave a checking hole for convenient repair.

After choosing the installation position, perform the following procedures:

 Cut a hole in the wall, put the connection pipe and wire through a locally bought PVC pipe penetrating through the wall. The wall hole should be slightly slant downwards toward outside, the slant degree should be at least 1/100. (as Figure 1 shown)
 Before cutting the wall hole, check and insure there is no pipe or steel at the right back of the wall hole. Avoid cutting the hole in the place with electric wire or duct.
 Hang the unit on a firm and level roof. If the base of the unit is not firm, it may cause noise, vibration or leakage.

(as Figure 6 shown)

4. Support the unit firmly and reliably.

5. Change the shape of connection pipe, connection wire and drain hose to make them easily pass through the wall hole.

Installation dimension: (Unit: mm)

a	b	с	d	e	f	g	h
730	941	450	225	50	225	700	100





Install the hoisting screw

Use M8 or M10 hoisting screw (4, prepare on site) (When the height of hoisting screw is more than 0.9m, you must use M10), their gaps refer to the dimension of air conditioner, according to the original structure and the following method to install.

wood structure

Put up the frame wood on the beam and mount the hoisting screws.



New cement panel

Use embedded parts and foot screw, etc to mount.





Original cement panel

Use the in hole hinge, in hole plug or in hole screw.



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(Steel structure

Directly use angle steel or new angle steel for support.



Suspending of indoor unit

- Fix the cap of hoisting screw on and suspend them on the T groove of the hoisting part of the unit.
- Use gradienter to keep the level degree of the unit within 5mm.





/ warning

- During installation, if refrigerant leakage occurs, please immediately take ventilation measure. If the refrigerant gas meet the fire, it may generate poisonous gas.
- After finishing installation work, please make sure there is no refrigerant leakage. If the leaked refrigerant gas meet heater and oven, etc. fire sources, it may generate poisonous gas.

(Permitted length and fall of connecting pipe)

Depending on the outdoor units, for details, please refer to the attahed manual of outdoor unit.

(Material and dimension of connecting pipe)

Material of connecting pipe	Phospor deoxy copper seamless pipe used in air conditioner (TP2)		
Dimension of connecting pipe	Gas side	Ø 12.7	
(mm)	Liquid side	Ø 6.35	

Connection of refrigerant pipe

Two spanners operation

- Perform connection of flared pipe to connect all the refrigerant pipes.
- The connection of indoor unit connecting pipe must be performed by two spanners.
- For installation torque, please refer to the following table.

External diameter of conneting pipe(mm)	Installation torque (N.m)	Tightening torque (N.m)
ϕ 6.35	11.8(1.2kgf.m)	13.7(1.4kgf.m)
Φ12.7	49.05(5.0kgf.m)	53.9(5.5kgf.m)

Installation procedure Connection of pipe

1. Connection of pipe

Connection method

- The connecting pipe max length of KRD-32N is 15m, and the max fall between indoor and outdoor unit is 5m; the connnecting pipe max length of KDR-70N is 50m, the max fall between indoor and outdoor unit is 30m. The max fall between two indoor units in one system is 10m.
- In order to guarantee the efficiency, the pipe should be as short as possible.
- Daub the refrigerant oil on the joint and the flared nut.
- When bending the pipes, give the roundness as large as possible, to avoid crashing the pipes.
- To connect the pipe, fit the center and use hand to screw the nut, then use spanner to tighten the nut, as shown in figure.
- Pay attention not to let alien matters, such as sand, vapor get into the pipe.
- The connection of indoor unit pipe must be performed by using two spanners.

If do not fit the center and screw the nut hard, the screw thread may be damaged, which will cause refrigerant leakage.

Spanner

Spanner

- 2. The additional charging amount of refrigerant
 The additional charging of refrigerant (R22) should be complied with the installation manual
- The additional charging of refrigerant (R22) should be complied with the instantation manual of outdoor unit. It must use measurer to quantificationally charge. The a dditional charging amount must be complied with the specified amount.Requirements: Both excessive charging and less charging of refrigerant will cause the compressor trouble. It must be complied with the specified amount.
- 3. For discharging, please refer to outdoor unit
- 4.Leakage detection
- Use leakage detector or soap water to check if the connected part of the connection pipe and the valve cap leak.
- 5. Thermal insulation treatment
- The thermal insulation of connection pipe should be performed at both gas side and liquid side. In COOLING, both liquid side and gas side are in low temperature, in order to prevent dew from forming, thermal insulation should be done.
- The thermal insulation material at the gas side must use the material with the heat resistant temperature over 120°C.
- The connected part of indoor unit connection pipe should be thermal insulated.



Installation procedure Electric wiring

Note:

- All the wires should be copper core wires.
- The power cable of indoor unit should be equipped according to the operation manual of indoor unit.
- Before finishing vacuumizing the refrigerant pipe system, do not supply power to indoor unit.
- When connecting the indoor & outdoor wire, check the number of the indoor & outdoor terminals, the terminals with the same number connected together with same one wire.
- Incorrect wiring will damage the controller of the air conditioner or make the unit work abnormally.
- The air conditioner must use special power circuit and special air switch (40A), groundign wire. The wiring work should be done by a qualified electrician according to the national wiring rule.
- The creepage breaker must be installed. The grounding line and the null line of the receptacle must be strictly separated. It is incorrect to connect the null line with the grounding line.
- The connection type of power cord is Y connection. If the soft power cord is damaged, to avoid risk, it must be replaced by the manufacturer or their specific repair department or similar professional worker.

Wiring method

- 1. The wiring method of orbicular terminal For the connection wire which end is orbicular terminal, its wiring method is as the right figure shown. Dismantle the screw and put it through the ring at the end of the connection wire, then connect it to the terminal block and tighten the screw.
- 2. The wiring method of straight terminal

For those connection wires whose end are not orbicular terminals, their wiring method is:Loosen the connecting screw, insert the end of the wire directly into theterminal block, and then tighten screw. Pull the wire outwards slightly to confirm it is held tightly.

3. Pressing method of connection wire:

The wiring method of orbicular terminal



After wiring, the connection wire must be pressed with wire holding clamp. The wire holding clamp should press on the out cover of the connection wire. As the right figure shown:

- The indoor and outdoor unit shall respectively use special power circuit.
- The indoor units connected with the same outdoor unit, its creepage breaker and switch shall be connected to the same power circuit.
- The communication wire of indoor and outdoor unit is 2-core twisted-pair with polarity. (as right figure shown)
- The indoor and outdoor unit shall respectively use special power circuit.





Installation procedure Install wire controller

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1. Remove the upper cover of wire controller

The PC board is installed on the back cover of wire controller. When remove the upper cover, pay attention not to damage PC board.



2. Install wire controller

Drill 2 wall holes according to the position of the 2 screw holes on the back cover of wire controller, then hit wood in the wall holes. Put the 2 screw holes on the back cover of wire controller properly to its corresponding wood, then use wood screws to fix the back cover on the wall.

Note:

Install the back cover of wire controller on the even wall as possible as can. When tightening the wood screw, do not use to tight force, otherwise the wire controller may be damaged. Switch

	Mark	ON	OFF	
	1	Fixed frequency	Inverter	۱ſ
	2	Have rise and drop	No rise and drop	
I	3	Swing	No Swing	
	4	The collection temperature of main panel	The collection temperature of panel	

Under this series, the switch is set as: 1.ON 2. OFF 3. OFF 4.OFF

3. Indoor unit wire connection

Connect the terminals (A, B, C, D,) on the wire controller to the terminals on the indoor PC panel (A, B, C, D,) respectively.



Note: When connecting wire, please keep a certain distance between signal wire and electric wire. (over 10mm)

Dimension of signal wire:

Type of wire	Shield wire (4 cords)		
Dimension	0.33 mm ²		

The connection between indoor unit and wire controller and indoor unit and outdoor unit should use shield wire. And the two ends of the shield wire should be grounded, otherwise, the disturbance will cause unit abnormal operation.

Shield wire

Grounded

Note:

Confirm the connection part of terminals is firm and will not touch shield wire.

4. Cover the wire controller upper cover

Pay attention not to press the connection wire.

Note: Do not touch PC board by hand.

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Installation procedure Other instruction and test

Other instruction

Set of the air sending of the fan motor

Before leaving factory, the rotation speed of fan motor has already been set at standard choice. When the indoor unit uses free air sending and not needing to connect with duct, the fan speed of indoor unit is set at standard choice. When the indoor unit needs to connect with duct, please according to the following figure shown to change the connection of the connector installed on the side of electric box.

Standard air sending (Before leaving factory)	High fan speed air sending	The relative relation between fan speed and static pressure
Control box side	Control box side	Unit: Pa Standard fan speed High fan speed
Fan motor side	Red Fan motor side	0 30

Cut and flaring method

Use pipe cutter to cut the pipe, the burrs must be removed. After inserting the flarer, perform flared nut.

Connecting pipe	Pipe diameter	Dimension A (nm)		
Liquid pipe	6.35mm(1/4")	0.8~1.5		
Gas pipe	12.7mm(1/2")	1.0~1.0		

A ↓ Flarer	Correct	Incorrect				
		Slant	Broken	Burrs U	Uncomplet	ed Too long

The following items must be noticed carefully during installation. After finishing installation, performing checking.

• After installing the refrigerant pipe, drain hose and electric wire properly, perform test run to ensure the system not have trouble.

Test run

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It is necessary the installer perform the test run for one time to check if the unit works normally.