Carrier

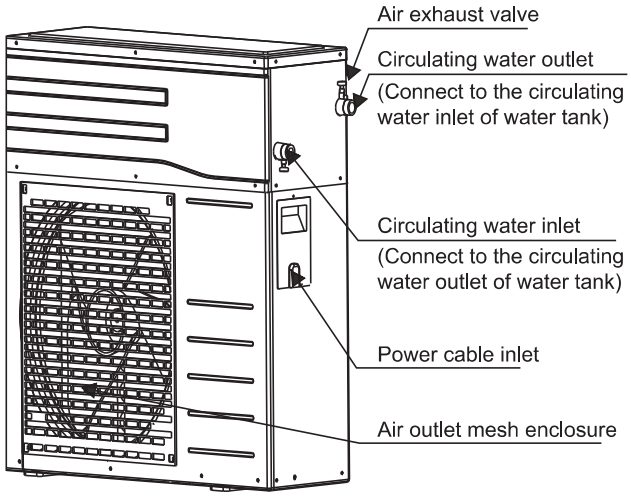
United Technologies
turn to the experts

INSTALLATION & OWNER'S MANUAL

Split Cycle-heating Type

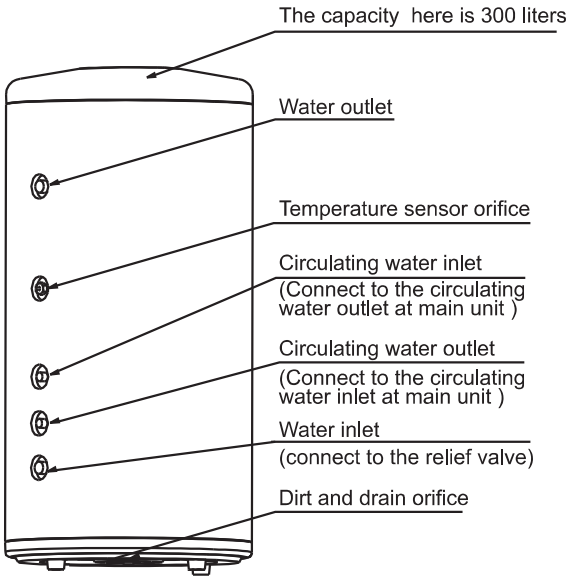
Thank you very much for purchasing our product.
Before using your unit, please read this manual carefully and keep it for future reference.

The main unit of air source heat pump water heater



MODEL: 30CWH030M 30CWH050M 30CWH070M

Water tank



NOTE

- Please install the safety valve at the side of water inlet, in accordance with national regulations.
- Please vertically install the water tank at horizontal site.
- All the picture in this manual are for explanation purpose only. They may be slightly different from the air conditioner you purchased (depend on model).The actual shaped shall prevail.
- Please install a pressure-relief valve (0.7~1.2MPa) at the side of water outlet in accordance with national regulations.
- The unit you purchasing is water system central air conditioner, if you will leave the unit unused for a short time at winter, please insuring the unit be powered all the whole day. In case of laid the unit up for a long time at winter, please exhaust the water from the system completely, prevent from frost crack.
- The above fig only for reference , please take your actual purchasing unit in prevail.

CONTENTS PAGE

1. PRECAUTIONS

To prevent injury to the user or other people and property damage, the following instructions must be followed. Incorrect operation due to ignoring of instructions may cause harm or damage.

The safety precautions listed here are divided into two categories. In either case, important safty information is listed which must be read carefully.

WARNING

Failure to observe a warning may result in death.

CAUTION

Failure to observe a caution may result in injury or damage to the equipment.

WARNING

- **Ask your dealer for installation of the** air source heat pump water heating units**.** Incomplete installation performed by yourself may result in a water leakage, electric shock, and fire**. Ask your dealer for repair, and maintenance.** Incomplete, repair, and maintenance may result in water leakage, electric shock, and fire.
- **In order to avoid electric shock, fire or injury, or if you detect any abnormality such as smell of fire, turn off the power supply and call your dealer for instructions.**
- **Never press the button of the wire controller with a hard, pointed object.**
  The wire controller may be damaged.
- **Never replace a fuse with that of wrong rated current or other wires when a fuse blows out.**
  Use of wrong wire or copper wire may cause the unit to break down or cause a fire.
- **Do not insert fingers, rods or other objects into the air inlet or outlet.**
  When the fan is rotating at high speed, it will cause injury.
- **Never use a flammable spray such as hair spray, lacquer paint near the unit.**
  It may cause a fire.
- **Never touch the air outlet or the horizontal blades while the swing flap is in operation.**
  Fingers may become caught or the unit may break down.
- **Never put any objects into the air inlet or outlet.**
  Objects touching the fan at high speed can be dangerous.
- **Never inspect or service the unit by yourself.**
  Ask a qualified service person to perform this work.
- **Do not dispose this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.**
- Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities.
  Contact you local government for information regarding the collection systems available.
- If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.
- An all-pole disconnection device which has at least 3mm separation distance in all pole and a residual current device(RCD)with the rating of above 10mA shall be incorporated in the fixed wiring according to the national rule.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- Children shall not play with the appliance.
- Cleaning and user maintenance shall not be made by children without supervision.

CAUTION

- **Do not use the air source water heater for other purposes.**
- **Before cleaning, be sure to stop the operation, turn the breaker off or pull out the supply cord.**
  Otherwise, an electric shock and injury may result.
- **Be sure the water heating unit is grounded.**
  In order to avoid electric shock, make sure that the unit is grounded .
- **In order to avoid injury, do not remove the fan guard of the outdoor unit.**
- **Do not operate the air source water heater with a wet hand.**
  An electric shock may happen.
- **Do not touch the heat exchanger fins.**
  These fins are sharp and could result in cutting injuries.
- **Do not place items which might be damaged by moisture under the indoor unit.**
  Condensation may form if the humidity is above 80%, the drain outlet is blocked or the filter is polluted.
- **After a long use, check the unit stand and fitting for damage.**
  If damaged, the unit may fall and result in injury.
- **To avoid oxygen deficiency, ventilate the room sufficiently if equipment with burner is used together with the air conditioner.**

■ **Arrange the drain hose to ensure smooth drainage.**
Incomplete drainage may cause wetting of the building, furniture etc.

■ **Never touch the internal parts of the controller.**
Do not remove the front panel. Some parts inside are dangerous to touch, and a machine trouble may happen.

■ **Never expose little children, plants or animals directly to the air flow.**
Adverse influence to little children, animals and plants may result.

■ **The appliances connected to the water mains**

- The maximum inlet water pressure is 0.7Mpa,when the pressure >0.7Mpa, please add a pressure-relief valve.
- The minimum inlet water pressure is 0.2Mpa.
- Maximum outlet water temperature range.

Table 1-1

Temperature / Model	Max-water temperature	Min-water temperature
030 050 070	60˚C	40˚C

■ 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.

■ This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

■ Children should be supervised to ensure that they do not play with the appliance.

■ That the appliance shall be installed in accordance with national wiring regulations.

■ The water may drip from the discharge pipe of the pressure-relief device and that this pipe must be left open to the atmosphere.

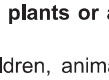
■ The pressure-relief device is to be operated regularly to remove lime deposits and to verify that it is not blocked.

■ A discharge pipe connected to the pressure-relief is to be installed in a continuously downward direction and in a frost-free environment.

■ The means for disconnection from a power supply shall be incorporated in the fixed wiring and have an air gap contact separation of at lease 3mm in each (phase) conductor.

2. ACCESSORIES

Table 2-1

Accessory name	Qty.	Shape	Purpose
Installation & owner's Manual	1	This manual	For install and use instruction
Y-shaped filter	1		For filtrate inlet water
Wire controller assembly	1	—	Control units and display units status
Seal ring	1	—	Discharge condensate water
Water outlet jointing pipe	1	—	Discharge condensate water
Water tank sensor	1	—	Detect water tank temperature
5-core shielded cable (10m)	1	—	Connect outdoor unit and wire controller.

3. INSTALLATION LOCATION

1) Enough space of installation and maintenance is available.
2) The air inlet and outlet are free from obstacles and strong wind.
3) The bearing surface is level and can bear weight of the unit, and is suitable for installing the unit without increasing noise or vibration.
4) The operation noise and the expelling of air do not affect neighbors.
5) No flammable gas is leaked.
6) It is convenient for piping and wiring.

CAUTION

Installing the equipment in any of the following places may lead to faults of the equipment (if that is inevitable, please consult the dealer):

1) The site contains mineral oils such as cutting lubricant.
2) Seaside where the air contain much salt.
3) Hot spring area where corrosive gases exist, e.g., sulfide gas.
4) Factories where the supply voltage fluctuates seriously.
5) Inside a car or cabin.
6) Place like kitchen where oil permeates.
7) Place where strong electromagnetic waves exist.
8) Place where flammable gases or materials exist.
9) Place where acid or alkali gases evaporate.
10) Other special environments.

3.1 Precautions before installation:

Decide the correct way of conveying the equipment.

Try to transport this equipment with the original package.

If the unit needs to be installed on a metal part of the building, electric insulation must be performed, and the installation must meet the relevant technical standards of electric devices.

3.2 Installation space

Before installing the unit, reserve the space of maintenance shown in the following figure.

Ensure enough space for installation and maintenance.(See *Fig.3-1,Fig.3-2*)

Please place the water tank vertically, don't suspend it. Reserve enough maintain space. (See *Fig.3-3*)

If the unit installed in a underground chamber, an indoor room or other hermetic place, please pay attention to where surrounding air, as well as which air exhaust and air circulating system. For every signal unit, which circulating air volume shall not less than 2400m^3 /h.

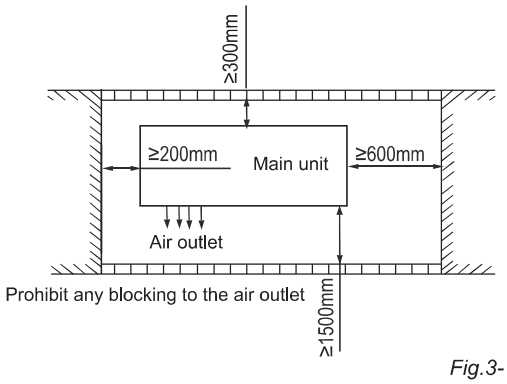


Fig.3-1

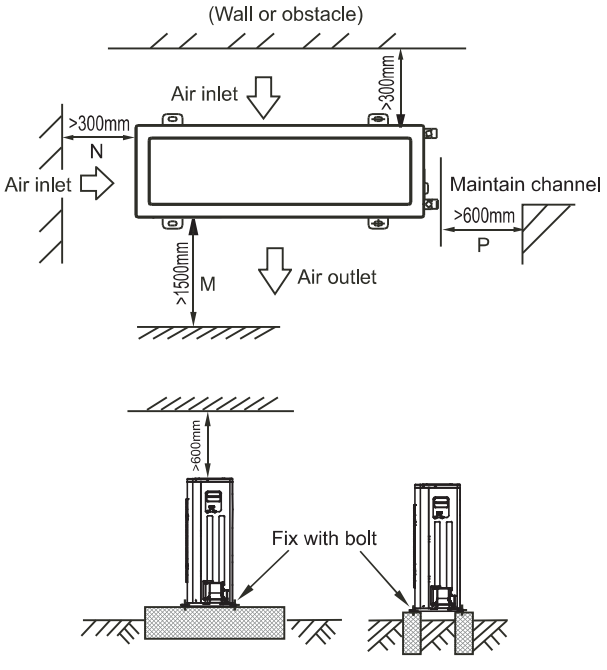
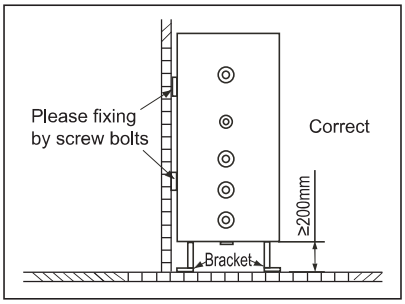


Fig.3-2

NOTE

Please confirm the corner bracket is strong enough and be mounted firmly, if the main unit be installed in external wall.



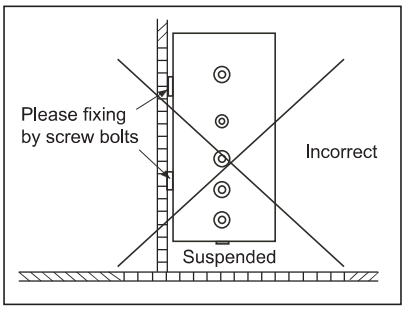


Fig.3-3

NOTE

All the pictures in this manual are for explanation purpose only. They may be slightly different from the air conditioner you purchased(depend on model).The actual shape shall prevail.

4. INSTALLATION OF THE UNIT

4.1 Installation

Confirm the model, serial number and name to avoid mistaken installation.

4.2 Electric wiring

Select the power supply capacity and wire size according to the *Design Manual*. The size of the power cable of the unit should be greater than that of ordinary motors.
Check the subscriber grounding is effective.

4.3 Carrying the unit onto the installing site

Please put down the main unit as gentle as possible during removing, main unit could be leaned no more than 45 degree.

In order to avoid scratch or deform the unit surface, apply guard boards to the contacting surface.

After move onto installing site, please confirm the main unit and water tank are placed in horizontal.

4.4 Installing the units

The spacing of foot screw bolts is shown as following（unit：mm）：

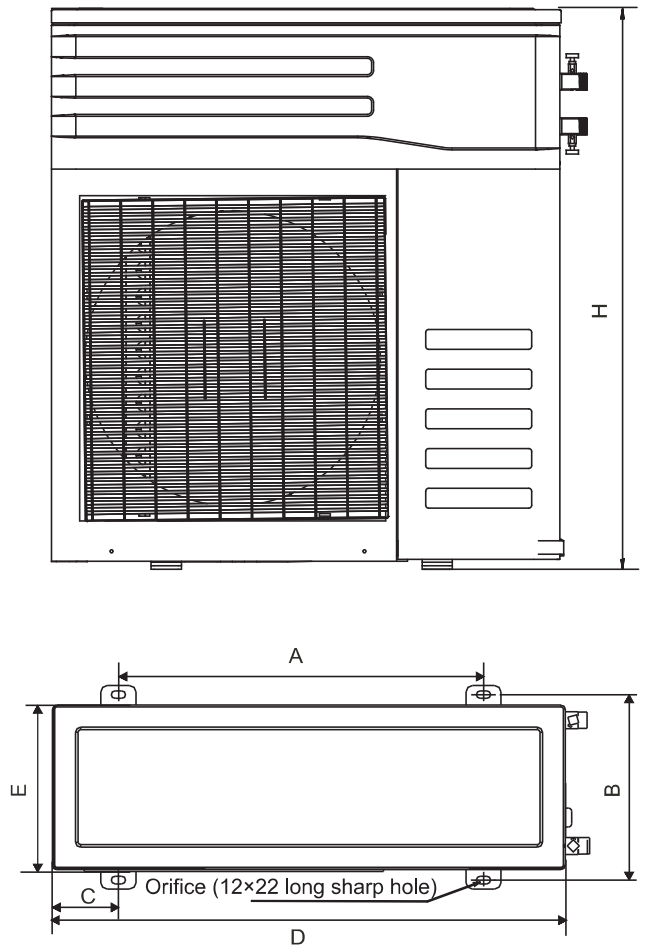


Fig.4-1

Table 4-1

MODEL	A	B	C	D	E	H
030	563	295	100	790	275	765
050	563	295	100	790	275	765
070	560	335	140	845	335	945

5. PIPES CONNECTION OF THE UNIT

1) During installation of connective pipe, you must beware not to let any dust or other foreign substance intrude into pipe system.

2) Water inlet and outlet pipes can be installed as long as the water-heating A/C have been fixed.

3) Thermal insulation materials should be employed to seal up water outlet and inlet pipes.

4) The height difference between the water outlet of heat pump and water inlet of water tank should be less than 3 meters. If the height difference is higher than 3 meters, please contact your dealer.（See *Fig.5-1*）

5) Before operation, please confirm that the specifications of connective pipes are correct, and thermal insulation layer have been wrapped on pipes. It requires that the length of circulating pipe should be not longer than 10 m, and all pipes have been sealed up, and no water leakage has been detected.

6) Before testing, please exhaust all air out from the pipe system first. Detail processes as follows:

   Close all air exhaust valves and customer water supply taps.

   Open water replenishing valve ——>Open user water supply tap.

   Upon tap water have been coming out and flow normally, close user water supply tap——> open air exhaust valves A and B.

   After 10 minutes upon water have been coming out from air exhaust valves and flow is normal, start the pump (Press the FORCE button at the main control board once, “PU” will display in the indicator.) ——>Running the pump about 10 minutes, and then turn off (Press the FORCE button at the main control board once again, “PU” will disappear.), and turn off air exhaust valves. Air exhaust process is finished ——> Open user water supply tap and out flow water for about 1 to 2 minutes, and then close it up. heat pump unit can now be started.

   During installation, please vertically place the unit at a horizontal site.

Table 5-1

No.	Name	Connective pipe spacification
a	Circulating water outlet of main unit	DN20
b	Circulating water inlet of main unit	DN20
c	Circulating water outlet of water tank	DN20
d	Circulating water inlet of water tank	DN20
e	Cold water inlet	DN20
f	Heat water outlet	DN20
g	Safey valve	DN20

■ System schematic diagram of whole unit

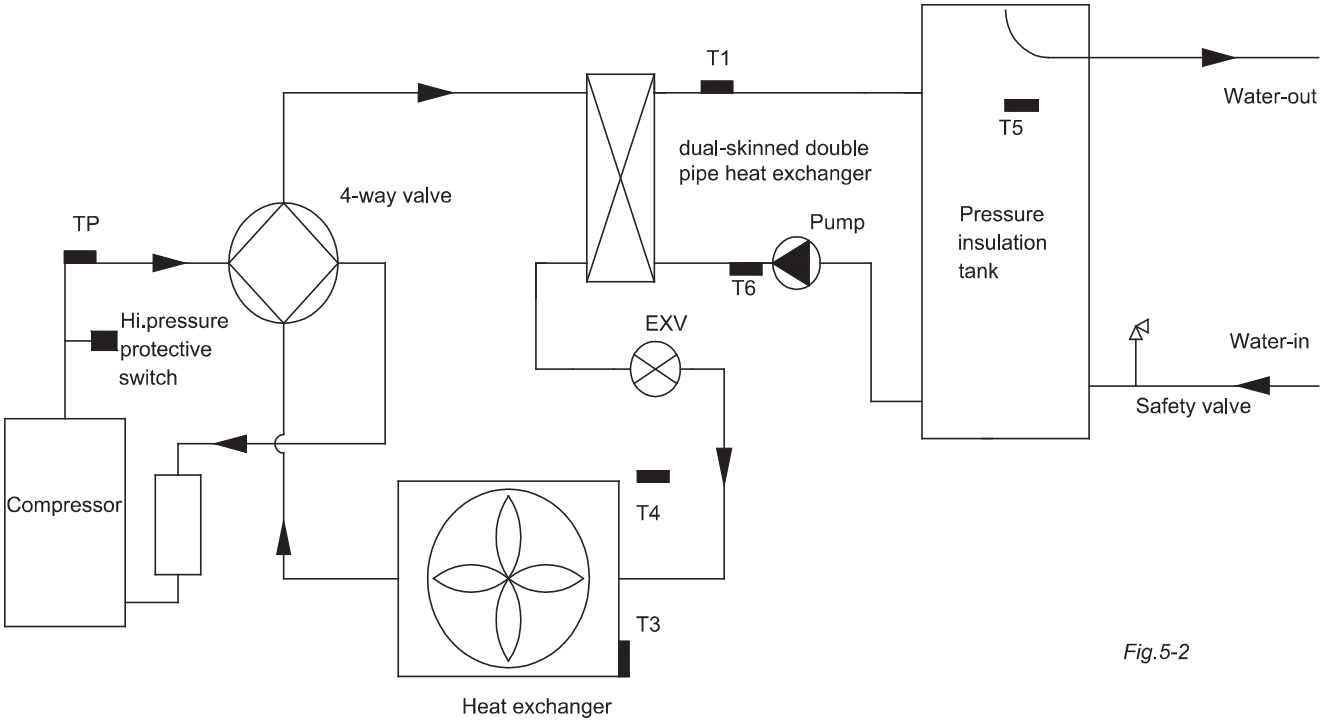
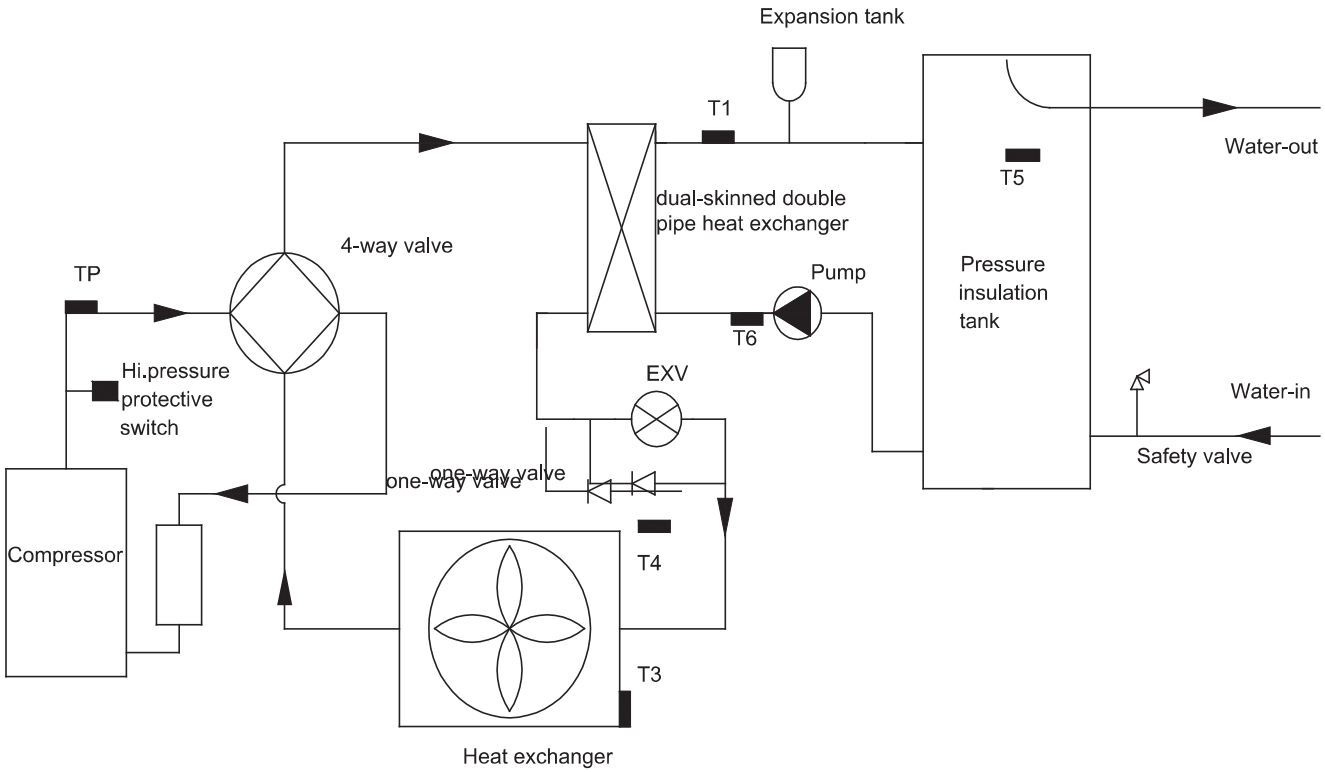


Fig.5-2

model: 030 050



model: 070

Fig.5-2

■ Schematic diagram of water heating units

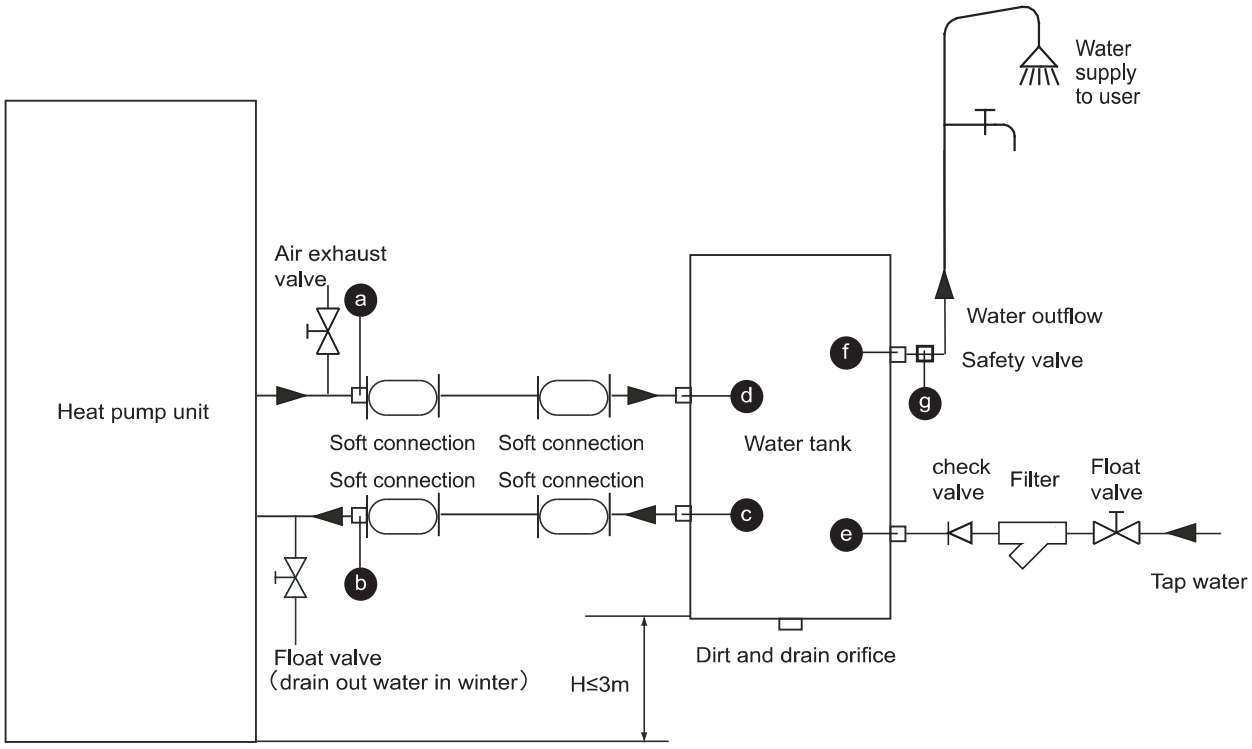


Fig.5-4

6. ELECTRIC CONNECTION

6.1 Electric wiring

CAUTION

- The air source water heater shall have a specialized power supply, which voltage must in compliance with the rated voltage.
- Power supply circuit of the air source heat pump water heater with ground wires that must be reliably connected .
- Wiring must be performed by professional technicians according to the circuit diagram.
- Power cable and signal cable shall be laid out orderly and properly separate power cable from signal cable.
- Power cable is attached to this equipment. User could select power cable by reference to power supply specifications. Shield wire must be employed for signal wire.
- All wiring should be finished, before power is switched on to the unit, please confirm all connections are correct.

6.2 Specifications of power supply

Table 6-1

Model	Power source
030 050 070	220-240V ~ 50Hz

6.3 Manual switch and fuse

Table 6-2

Model	Manual switch(A)	Fuse(A)
030	20	15
050	20	15
070	30	25

6.4 Selecting the capacity of the manual switch and fuse of the deconcentractor

No power supply device is used, see Table 6-1. The specifications depend on connected units' actual status.

Power supply device is used, the specifications can be derived from Table 6-2 according the total horsepower of the heating water air conditioner.

6.5 The specification for wire controller wiring

Table 6-3

Name	Quantity	Specification	Remarks
5-core shielded cable	1	RVVP-300/300 5×0.75mm^2	Length< 50m

CAUTION

When the power cable is parallel to the control wire, please put these wires into their respective wire tubes, and reserve adequate interval space between them.

6.6 Power cable

1) The power cable is as follows:

2) When power deliver to a certain wire individually (no power supply device is used)

Table 6-4

Item / Model	Power supply	Min. wire size (mm^2) (Metal pipe & synthetic resin pipe wire)		Manual switch(A)		RCCB	Modle
		Size (Continuous length: ≤30 m)	Ground wire	Capacity	Fuse		
030 050	220-240V~ 50Hz	1.5	1.5	20	15	30 mA Below 0.1 sec	LBC-16-1-CP
070		2.5	2.5	30	25		

NOTE

- The power cord type designation is H07RN-F.
- Wire size and continuous wire length in Table 6-4 only available for the case of the voltage decreasing range not exceeds than 2%.
- If the continuous wire length valve larger than the one of the table, please choose its size in compliance with the relevant rules.

3) Power supply device application

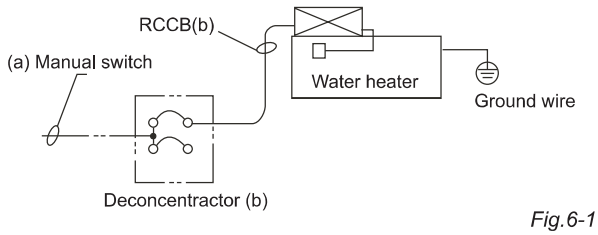


Fig.6-1

NOTE

To be on safe side, an additional RCCB is necessary to be installed in the external power supply box. Please refer to *Fig.6-1* to arrange it.

4) Selecting the wire diameter
Power cable is that the main wire (a) from deconcentractor and the auxiliary wire (b) leading from deconcentractor and connected to the power supply device. Please select the wire diameter by following methods:

5) The diameter of main wire (a) be conducted by the horsepower of water heating air conditioner and Table 6-4.

6) The diameter of the wire (b) connected from deconcentractor to power supply device be conducted by the horsepower of water heating air conditioner and Table 6-4.

6.7 Electric wiring diagram

1） Electric wiring diagram for Model 030 050 070.

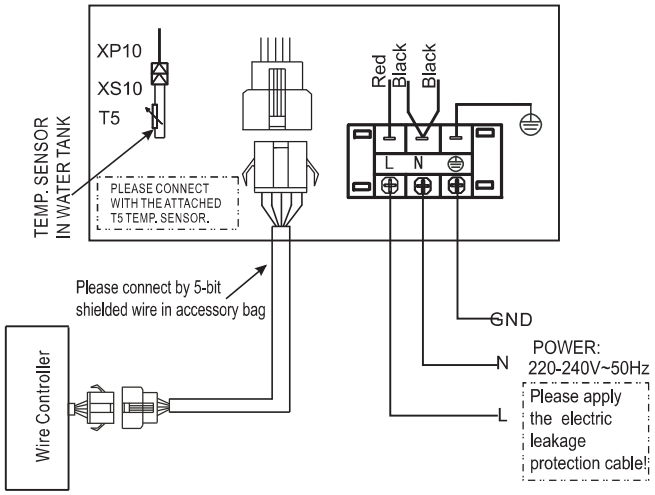


Fig.6-2

6.8 Setting wire controller

1) The attached wire controller can be applied to several HPWH models after the controller is properly set.
For this model, the controller need to be set to “5”.

2) Setting method:
when the controller is “OFF”, simultaneously press and hold “ ◄ ” “►”two buttons, until the setting number (from 1 to 5) is displayed on the screen. Press “▲ ” or “▼ ”button to select the number ”5”, then press “OK” button to confirm.

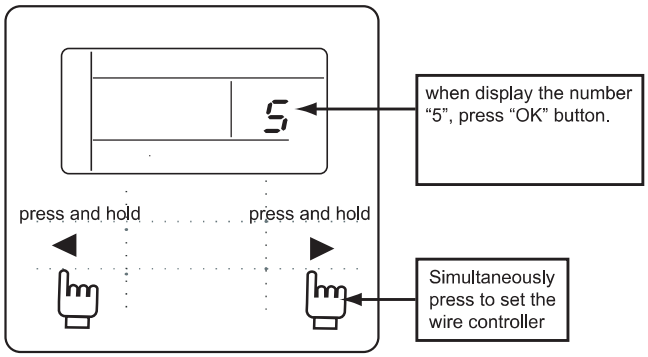


Fig.6-3

CAUTION

- Please don’t reverse connections of low voltage electric signal wire with heavy electric wire, otherwise, some of electric control elements will burned out!
- The illustration of water pump override button.
- The length of tank temperature sensor should not exceed than 10 meters.

■ **Model: 030 050 070**

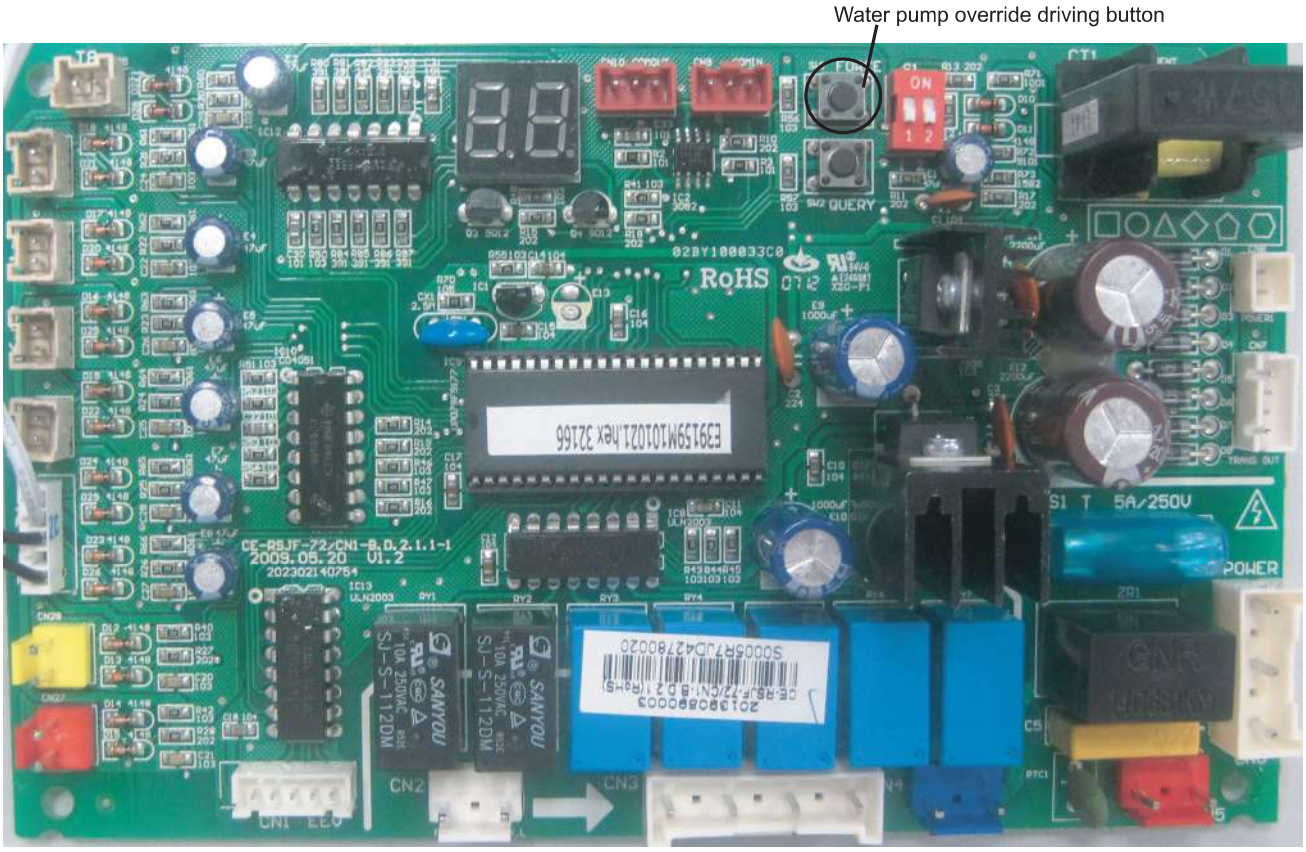


Fig.6-3

7. RUNNING AND CAPABILITY

7.1 About the 3-minute protection

Restart or open the manual switch after the unit has shut down. Unit will not start immediately until 3 minutes later, because of the self-protect function of the compressor.

7.2 Characteristics of heating operation

During operation, if outdoor temperature is higher than normal,the air supply motor will runs at low air volume.

7.3 Characteristics of heat pump heating operation

During operation, if outdoor temperature is higher than normal, the air supply motor will runs at low air volume or stop running

7.4 About defrosting function perform at heating operation

In case of the unit requiring deicing during heating operation, TO prevent the heating efficiency from decreasing, defrosting operation will turn on automatically (approx. 2~5 minutes) .

In the process of defrosting operation, the unit air supply motor will stop running.

7.5 Operating conditions of the water heating heat pump

In order to use the water heating heat pump correctly, please ensure that operate is at -7℃~43℃ outdoor ambient temperature.

7.6 About protection device

When protection device does operate, though the unit stops, the operating indicator of wire control still will be blinking.

When protection device is operates, nixie indicator will display malfunction code (unit).

Protection device will act when the following circumstances occur:
Air inlet or outlet are blocked.
Air in water or refrigerant system completely exhausted.
Voltage is a little higher or lower compare to the voltage range (Exceeding the range of 207V~255V).

CAUTION

Please cut off the manual switch power when unit is faulty.
Do not restart until problems are solved.

7.7 Start the unit after a long period out of service

Start-up the unit after out of service for a long period (includes drive up a unit at the first time), you would see rust mix up water in red, flow out from tap. Such that is a normal circumstance, please be calmly and keep draining, after for a while rust will disappear.

7.8 Three kinds of starting modes:

Automatic mode: Units starting up/shutting down according to the water temperature in tank. When the temperature decrease to drive-up temperature, it will start up automatically; when temperature is heated to setting temperature, it will shutdown automatically.

Manual mode: To start up/shut down the unit according to the water temperature in tank. When the temperature decrease to drive-up temperature, please start it up; when temperature is heated to setting temperature, please shut it down.

Timing mode: Set the unit starting up/shutting down according to water temperature in tank. When the temperature decrease to drive-up temperature, it will start up; when temperature is heated to setting temperature, it will shut down.

7.9 About power failure

In case power failure during the unit working, please stop all operating actions.

At the next startup after power failure, the RUN indicator of wire controller will blink slowly for several seconds for noting user.

Misoperation occur during unit working:
In case misoperation caused by lighting or vehicle radio, cut off the manual power switch, and turn it on again, afterward press RUN/STOP key.

It is forbidden to switch the power off if ambient temperature below -5℃. In case of power failure or power need be cut because of maintenance, please open the drainage valves at the joints of water inlet and outlet pipes as soon as possible to draining out all water. Otherwise, components inside of the units may be damaged by freeze. Upon draining water, please close the water drainage valves.

7.10 About RCCB

Outdoor unit must use RCCB,pleases install an RCCB between in user power supply and the outdoor unit. In case the unit cannot act but not attribute to power failure, please check these RCCB switches at first. Before operate the RCCB, please ensure that the user installing switch is break off.

After the RCCB has serviced for a period of time (Generally once a month), it is necessary to press the test button at close circuit to check whether the performance of RCCB is work normally (Every time you press this button, RCCB would break-off once at a time). In case malfunction occurs, but no causes were found, it is permit to delivering power to RCCB to detect failure. If RCCB did not work when being power, you must check out the cause by feature test if necessary. If which detected and confirmed as its self-malfunction, please consigning a professional personnel to replace a new one or repair it immediately.

7.11 About shut-off memory

Every time when power is shut off, controller will save the current operate status automatically. when power come on the next time, controller would deliver ON/OFF signal to the unit according to its memory before power failure. This function keeps unit always working on the mode which was set in the last time before power failure.

7.12 About upkeep and maintenance

Inspect the air intake orifice or air outlet is blocked periodically. If any, remove the foreign substance to let the air flow fluently.

After the unit service for a couple of time, dirt would accumulate in the tank, please clean the tank periodically. Recommending one months a time. Close all float valve and take off drain orifice under the tank, drain out water from it, and then open water inlet valve and close all float valve. After one minute water flushing, close water inlet valve and drain orifice, then done the clean process. You could reset the unit for new start.

7.13 About heating capacity

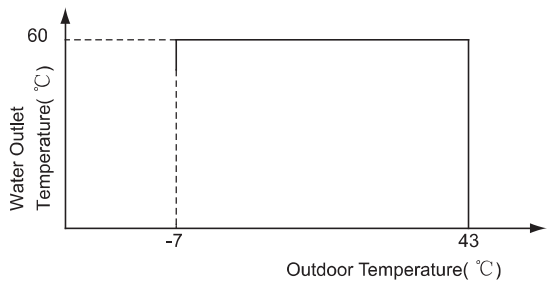
The heating process is a heat-pump mode that it absorbs heat from outdoor and release to water, Once the outdoor temperature decrease the heating capacity will also decrease simultaneity.

7.14 About operation range

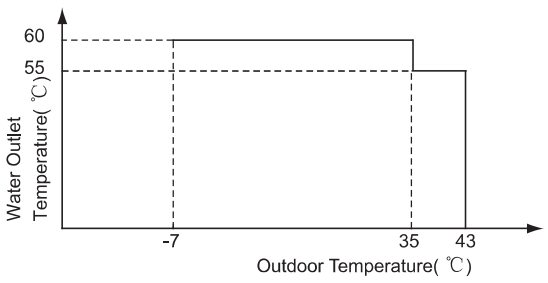
NOTE

- Conditions1: Outdoor ambient temperature is DB/WB7°C/ 6°C, inlet water temperature of the units is 30°C , outlet water temperature 35°C.
- Conditions2: Outdoor ambient temperature is DB/WB 20°C/ 15°C, inlet water temperature of the units is 15°C , outlet water temperature 55°C.

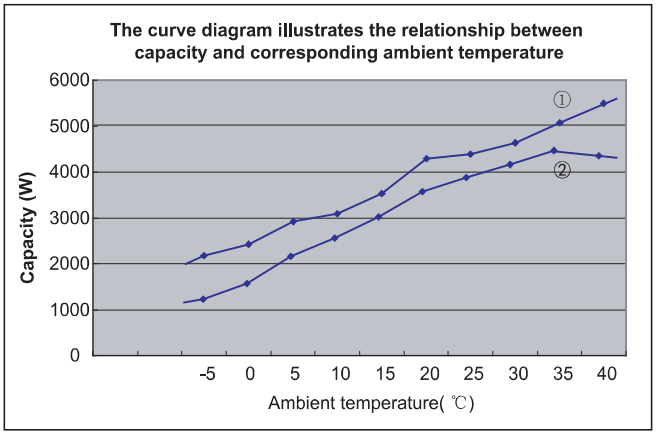
MODEL: 030 050

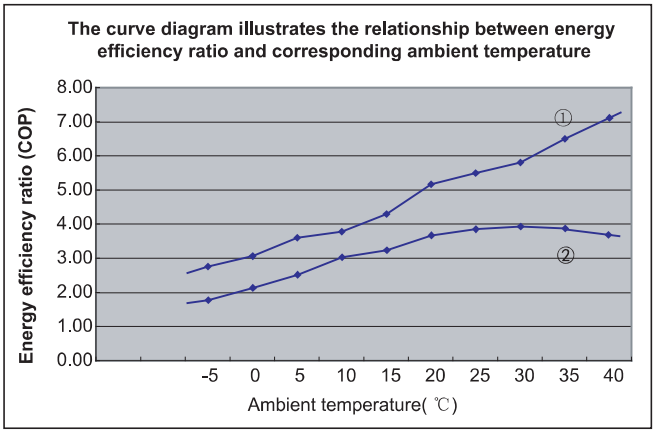


MODEL: 070

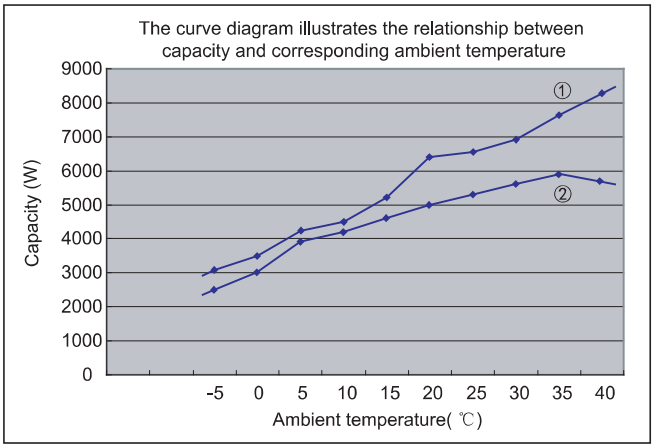


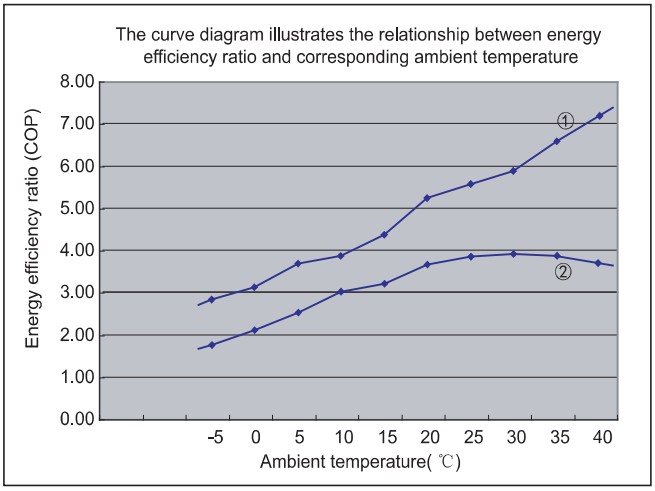
30CWH030M



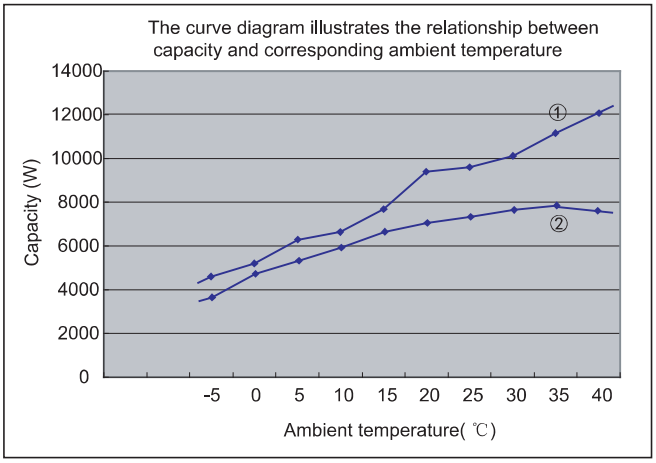


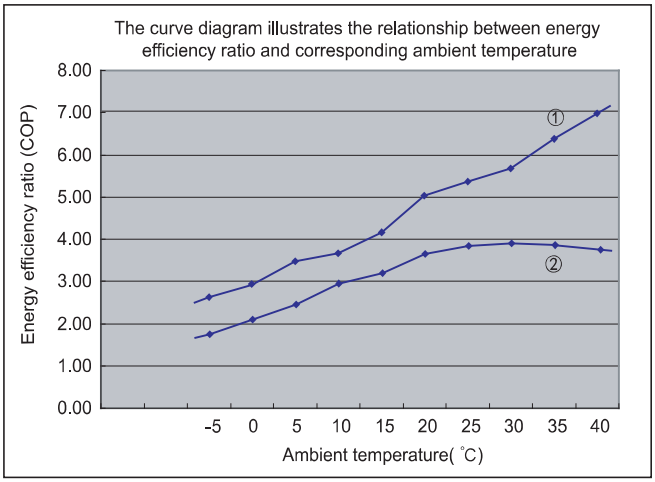
050





070





8. TRIAL RUN

CAUTION

- Trial run the unit after being powered up for over 12 hours.
- Check that all valves are opened before trial run.
- Check the electric safety before trial run.
- Do not perform compulsory operation. (It is very dangerous if the protection device is not active.).

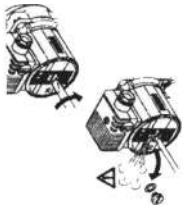
NOTE

The water heating units have self-protecting function, when power is supplied. If the unit is started or restarted instantly after it just has stopped, compressor will delay action until 3 minutes later.

- Trial run is top performed only after all installation is finished.
- Confirm the following insure before operation, and tick box after confirmation.
  - The water heating units is installed correctly. ☐
  - The piping and wiring are correct. ☐
  - The accessories are installed correctly. ☐
  - The heat insulation is perfect. ☐
  - The ground wire is connected correctly. ☐
  - The supply voltage is consistent with the rated voltage of the unit. ☐
  - The air inlet and outlet of the unit is free from obstacles. ☐
- Trial run
  - Check whether the switch of the controller is normal.
  - Check whether the functional keys of the controller are normal.
  - Check whether the indicators illuminate normally.
  - Check whether the manual operation buttons are normal.
  - Check whether the water heating operation is normal.
  - Check whether the outlet water temperature is normal.
  - Check for excessively noise during operation.
  - Check whether refrigerant leakage.

NOTE

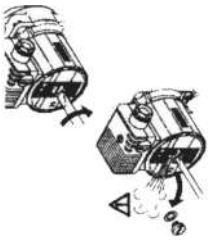
- When trial operating， if the water pump can't start normally, there's air in the pump or water pump motor has frozen. Operate water pump according to the right figure, use a proper screwdriver to remove the plug at the end of water pump to discharge air carefully.
- After air discharge, utilize the sink at the end of the water pump motor axial, use a screwdriver to rotate water pump rotor.
- During the process, please pay attention to prevent electric parts from being splashed wet by leak water.



9. MAINTENANCE

Before asking for serving or repairing, check the following points:

Table 9-1

	condition	
Normal operation	• White aerosol or globule is give out. • Make sound of “hiss” every now and then.	• Air supply motor stop automatically to defrost. • At the beginning and the end of the defrost process, sound is give out in motor valve . • During the process or just after having stopped, sound like water flow occur, which will be amplified at the first 2~3 minutes, this is caused by process of refrigerant current or water. • Slight ”hiss” is caused by heat exchanger as temperature changes. The sound give out because of heat expands and cold contracts of heat exchanger.
Please check that again	Stop operation or start up automatically	• Check the timer whether it is correctly set. • Detect antifreezing mode is operating.
	No operate	• Whether the power is cut. • Whether the manual power supply switch is off. • Whether fuse is broken. • Whether the protection device works.(Operation lamp is lightened.) • Whether it is the time set.(Operation lamp is lightened.) • When trial operating， if the water pump can't start normally, there's air in the pump or water pump motor has frozen. Operate water pump according to the right figure, use a proper screwdriver to remove the plug at the end of water pump to discharge air carefully. • After air discharge, utilize the sink at the end of the water pump motor axial, use a screwdriver to rotate water pump rotor. • During the process, please pay attention to prevent electric parts from being splashed wet by leak water. 
	Inefficient heating	Whether the inlet and outlet of heat pump units is blocked.

NOTE

In case of following malfunctions, please cut off the manual power switch and contact the local dealer or after sale service centre:

1. ON/OFF operation is ineffective.
2.IL/B trips frequently .

10. SPECIFICATIONS

Table.10-1

Model			30CWH030M	30CWH050M	30CWH070M
Heating capacity(W)		Condition1	3000	4300	6500
Standard power(W)			810	1110	1800
Heating capacity(W)		Condition2	3450	5000	7200
Standard power(W)			990	1310	2020
Max power(W)			1550	1950	2750
Power supply			220-240V~ 50 Hz		
Operation control			Manual start, auto start, failure alarm etc.		
Safety device			High pressure protection(According to your purchases), hydrau -lic protection, overload protection, temperature protection etc.		
Working substance(Charged volume)			R410A (950 g)	R410A (1200 g)	R410A (1300 g)
Water circulate param.	Water outlet temp.		Default factory setting temperature 50°C		
	Liquid side heat exchanger		Double pipe heat exchanger		
	Water circuitive inlet pipe diam.		DN20	DN20	DN20
	Diam. of water inlet/outlet pipe		DN20	DN20	DN20
	Max.resisting pressure		0.7 MPa		
Air side heat exchanger	Mode		Internal thread hydrophilic aluminium foil		
	Motor power (W)		80	80	125
	Air outflow mode		Air flow from rear		
Outline dime.	L (mm)		790	790	845
	W (mm)		275	275	335
	H (mm)		765	765	945
N.W (kg)			56	62	81
Water Contented capability(L)			100-250	150-300	250-500
Noise dB(A)			53	55	55

NOTE

- Conditions1: Outdoor ambient temperature is DB/WB7°C/ 6°C, inlet water temperature of the units is 30°C , outlet water temperature 35°C.
- Conditions2: Outdoor ambient temperature is DB/WB 20°C/ 15°C, inlet water temperature of the units is 15°C , outlet water temperature 55°C.


Carrier
United Technologies
turn to the experts