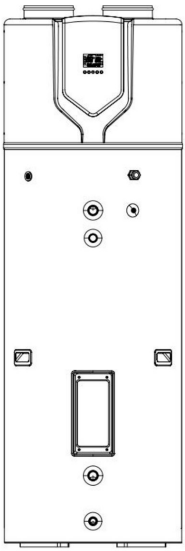
Alchemy Range

WATER MASTERY

Hot Water Heat Pump 200 L / 300 L

Installation and Owner's Manual

J12HW200V2 | J12HW300V2



Supplied in Ireland by Alchemy Range

Alchemy Range is the trading name of Price King Sales Limited, Blessington, Co. Wicklow. CRO 509453.

alchemyrange.ie | Trade enquiries 089 260 5444

Installation must be carried out by a qualified installer. Please read this manual fully and keep it for future reference.

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WARNING	The heat pump unit is required reliable earthing connection before usage. Otherwise it might cause death or injury.

If you cannot confirm that your house power supply is earthed well, please do not install the unit before carefully check it. Please have a qualified person to check the reliable earthing connection and install the unit.

Examples of a qualified person include: Licensed plumbers, Authorized electric company personnel, and Authorized service personnel.

- Do not dispose this unit 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. Please contact local government for information regarding the collection systems available.
- If electrical appliances are disposed of the landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.

CAUTION

- The ground wire's pole of socket must be grounded well, make sure that power supply socket and plug are enough dry and connected well.
- To check the power supply socket and plug are qualified .
  Step 1: Turn on the power supply.
  Step 2: Keep the unit running for a half hour.
  Step 3: Turn off the power supply and plug out.
  Step 4: Check whether the socket and plug is hot or not.
- Before cleaning, be sure to stop the operation and turn the breaker off or pull out the power supply plug. Otherwise, an electric shock and injury may be caused.
- Produced hot water temperature can reach over 50℃. It can cause severe burns instantly or death form scalds. Children, disabled and elderly persons are at highest risk of being scalded. Feel water is necessary before bathing or showering. So, water temperature limiting valves are recommended.



- Do not operate the unit with a wet hand; Otherwise, an electric shock may be caused.
- The installation height of power supply should be over 1.8m. If there is any water spattered, separate the power supply from water.
- It is normal if some water drops from the hole of PTR valve during operation. But if there is a great amount of water, call the service agent for instruction.
- After a long term use, check the unit base and fittings. If damaged, the unit may sink and result in injury.
- Arrange the drain pipe to ensure smooth draining. Improper drainage work may cause wetting of the building, furniture, etc.
- Do not touch the inner parts of the controller. Do not remove the front panel. Some parts inside are dangerous to touch, otherwise the unit malfunction may be caused.
- Do not turn off the power supply. System will stop or restart heating automatically during the standby mode. A continuous power supply for the unit is necessary, except service and maintenance.
- If the unit has not been used for a long period of time (2 weeks or more), hydrogen gas will be produced in the water piping system.



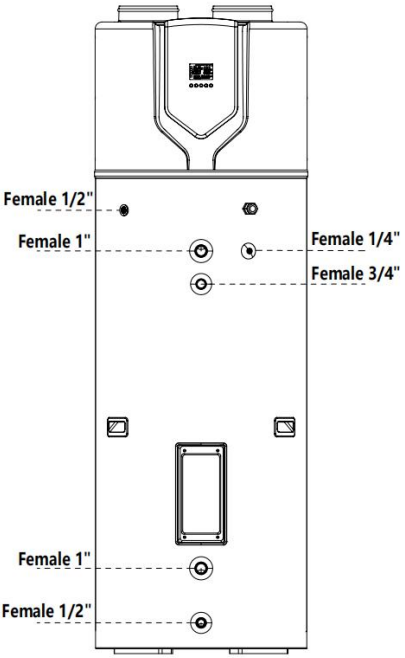
WARNING

It will cause explosion and injury, if do not comply with the following instruction:

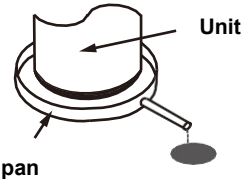
- Do not dismantle the PTR valve.
- Do not block off the outlet drain pipe.

The specifications of water inlet and outlet pipes as following:

- Internal thread (G1').
- Pipes must be heat-insulated well.
- Installation of the pipe of PTR valve's thread is RC3/4' (external thread). When finish the installation, it must be confirmed that the outlet drain pipe of the PTR valve is exposed in the air.
- The relief valve is necessary. It can prevent the supplied water from flowing backwards.
- Connection dimensions as shown in the figure below.



- After water system piping work, turn on the cold water inlet valve and hot water outlet valve and start effusing the tank. When water flow smoothly out from tap of water outlet, it means the tank is full. Please turn off all valves and check pipeline to make sure there is without any leakage.
- If the inlet water pressure is less than 0.15MPa, a pump should be installed at the water inlet pipe.
- For the safety usage of water tank at the condition of water supply pressure higher than 0.65MPa, a reducing valve should be installed at the water inlet pipe.
- Condensate may be leaked from the unit if condensate drainage pipe is blocked or it operates in high humidity environment, a drainage pan is recommended as shown as the following figure:



Drainage pan

◆ The duct specifications:

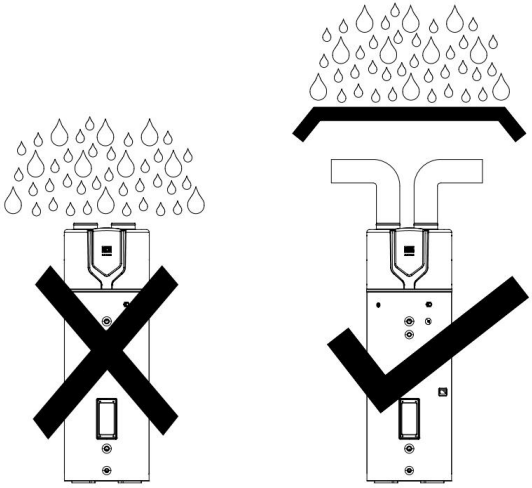
Duct type		Round duct
Dimensions		Φ180mm
Pressure drop	Straight	≤2Pa/m
	Bent	≤2Pa/m
Bent quantity		≤3

NOTES

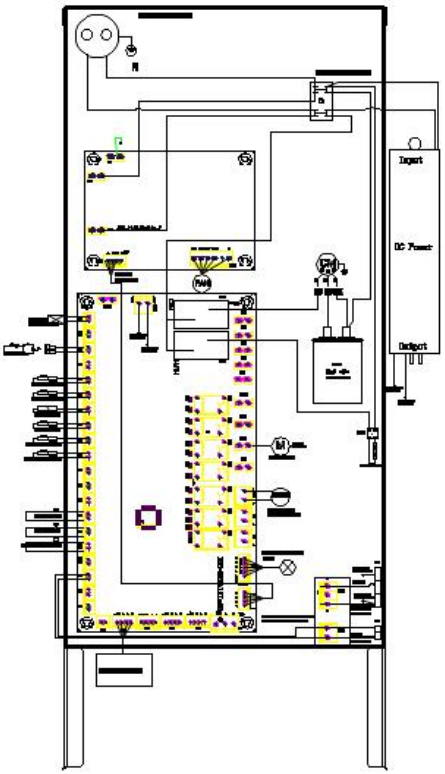
- When the air duct is connected, the unit capacity will be decreased because of the decreased air flow by the resistance of the duct.
- If the duct is connected, the duct total length should be not more than 8m, or the maximums static pressure should be within 15Pa. By the way, the quantity of bending should be not more than 3.
- When the unit with duct operates, condensate water will be generated around the out surface of the duct. So please wrap the thermal insulated layer around the duct.
- The unit should be installed in the indoor space, and it is not allow installing the unit at the rainy place.

WARNING

- Please avoid the water entering to the internal of the unit because the water will cause the component inside the unit damage or physical danger.
- If the unit is connected with duct which is reaching to outdoor, it is necessary to supply a reliable water-resistant measure on the unit to prevent water dropping from outside to internal of the unit.



3.4.1 Electric wiring diagram



3.4.2 Specifications of power supply

Power supply	220-240V~, 1Ph, 50Hz
Min. diameter of power supply cord	2.5mm^2
Earth cord	2.5mm^2
Manual switch capacity / Fuse	25A / 25A
Leakage current circuit breaker	30mA, ≤0.1Sec

- Please choose the power supply cord according to the above table, and it should comply with local electric standard.
- The power supply cord model, recommended power supply cord is H05RN-F/H05RR-F.

WARNING

The unit must be installed with a Leakage current circuit breaker near the power supply and must be effectively earthed.

3.4.3 Remote control connection



2pin Terminal	Passive linkage
3pin Terminal	Strong electric interlocking signal(L S N) Note:Double wires is N

5.2 Lock/Unlock

	 **Press for 3 seconds when beep sound to unlock.**	**The screen will lock after 5 minutes of inactivity. Once locked, the interface becomes unresponsive, clicking any button causes the main screen to flicker but no settings can be adjusted even id during data adjusting.**

5.3 Turn on/off

	 Press to turn on/off	

5.4 Working mode selection

DHW mode

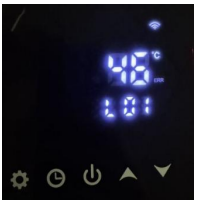

5.5 Set target temperature



In main interface press to enter target temperature setting.

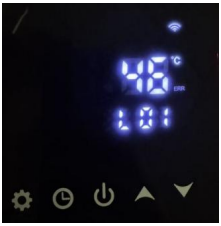
	**DHW mode** press  directly to set the target temperature.

5.6 Version information

	Press  3 seconds to check Unit Status information .	
 Press and hold for 3 seconds to view the Version No.	 	No compressor icon = Wire controller Version No.; With Compressor icon = Mainboard Version No.; Press  to switch Versions No.

5.7 Function menu

5.7.1. Unit Status information

	Press  for 3 seconds to check Unit Status information .	

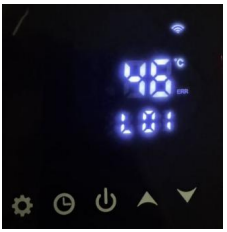
No.	Describe	Current Operating Data
L1	DHW tank temperature	℃
L2	Reserve	℃
L3	Reserve	℃
L4	Reserve	℃
L5	Reserve	℃
L6	Working Ambient Temperature	℃
L7	Outer Coil Temperature	℃
L8	Inlet water temperature	℃
L9	Outlet water temperature	℃
L10	Exhaust temperature	℃
L11	Return gas temperature	℃
L12	EEV opening	P
L13	Current fan speed	RPM
L14	DHW effect target temperature	℃
L15	Reserve	℃
L16	Reserve	℃

5.7.2. User parameters

<table>
<tr><td></td><td colspan="2">Press  for 3 seconds to enter the interface of checking Unit Status information first.</td><td></td></tr>
<tr><td></td><td>And than press  again to check User parameters.</td><td></td><td></td></tr>
<tr><td colspan="3">If need to revise the parameter value, press  and the value flash. Press  to revise and press  to confirm.</td><td></td></tr>
</table>

No.	Describe	Default
U001	0 Water control,1-Room Control	0
U002	DHW target temperature(Range 20-70℃)	55
U003	Reserve	35
U004	Reserve	21
U005	DHW restart temperature(Range 1-10℃)	5
U006	Reserve	2
U007	Reserve	
U008	Reserve	2
U009	Reserve	
U010	Reserve	1
U011	Electric stops temperature(Range 1-5℃)	2
U012	Reserve	0
U013	Reserve	0
U014	Reserve	-25
U015	Reserve	-15
U016	Reserve	-2
U017	Reserve	5
U018	Reserve	15
U019	Reserve	45
U020	Reserve	42
U021	Reserve	38
U022	Reserve	35
U023	Reserve	30
U024	Sounds shut off(0 on,1 off)	1
U025	LED shut off(0 always on,1-10 minute)	0

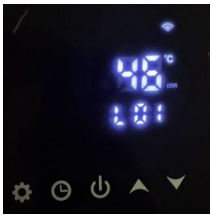
5.7.3. Project parameters

<table>
<tr>
<td></td>
<td>Press  for 3 seconds to enter the interface of checking Unit Status information first.</td>
<td></td>
</tr>
<tr>
<td>Press  for 3 seconds to enter the interface for password input.</td>
<td></td>
<td>Press  to change password (6666).
Press  to change password location.
Press  to confirm password.</td>
</tr>
<tr>
<td></td>
<td colspan="2">If need to revise the parameter value, press  and the value flash. Press  to revise and press  to confirm.</td>
</tr>
</table>

No.	Describe	Default
P001	Passive function(0 disable,1enable)	0
P002	SG ready function(0 disable,1enable)	0
P003	Target temperature rise to storage during EVU (0 disable,1enable)	0
P004	Reserve	
P005	Curing function(0 disable,1enable)	0
P006	Floor Curing Temperature Setting Stage 1(Range 25-35℃)	30
P007	Floor Curing Operation Duration Stage 1(Range 1-10days)	2
P008	Floor Curing Temperature Setting Stage 2Range 35-40℃)	38
P009	Floor Curing Operation Duration Stage 2(Range 1-10days)	5
P010	Floor Curing Temperature Setting Stage 3(Range 40-45℃)	42
P011	Floor Curing Operation Duration Stage 3(Range 1-10days)	10
P012	Room temperature compensation function(0 disable,1-30 minutes compensation one time)	0
P013	Shifting Priority(0 disable,1enable)	1

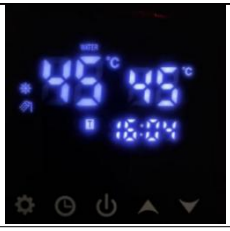
P014	Allowable Temp Drift in Heating(Range 3-10℃)	5
P015	Shifting Priority Starting Temp (Range -10-10℃)	10
P016	DHW Backup Heater for Shifting Priority(0disable,1enable)	0
P017	Sanitary Water Min. Working Hours(Range 20-180℃)	50
P018	Heating Max. Working Hours(Range 20-180℃)	30
P019	Emergency Operation base on HWTBH(0disable,1enable)	1
P020	Backup Heating Source f or Sanitary Hot Water (0disable,1enable)	1
P021	Priority for Backup Heating Sources (HWTBH) (0disable,1enable)	1
P022	Water Temperature Rise Reading Interval(Range 1-120minutes)	25
P023	Emergency Operation base on HTBH(0disable,1enable)	1
P024	Release Integral for Backup heating (Range 10-60℃*minutes)	45
P025	Control mode of circulation pump(0 always off,1-9 minutes off and run 9-1minutes,10 always run,when heating get the target temperature)	6
P026	Reserve	
P027	Reserve	1
P028	Secondary circulation pump run over temperature (Range 15-25℃)	20
P029	Secondary circulation pump stops under temperature (Range 15-25℃)	18
P030	Disinfect over temp setting: (Range60-75℃)	60
P031	Disinfect during time setting (Range 10-60minutes)	30
P032	Disinfect max time setting (Range 40-240minutes)	120

5.7.4. Reset default parameters

	Press  for 3 seconds to enter the interface of checking Unit Status information first.	
Press  for 3 seconds to enter the interface for password input.		Press  to change Password (1134) Press  to change password location. Press  to confirm password. Until the buzzer sounds a long beep, finish all default parameters reset.

5.8 Time Setting

	Press  for 3 seconds to set year. Press  to change year.	
Press  to set month first and press  to change month. (After month setting, same operation for day setting.)		After confirm the month and day, press  again to set time. Press  to change time.

	Press  to set year/month/day/time again if need. Press  to confirm to back to main interface.

5.9 Set Timer function

5.9.1. DHW timer function

	Press  some times until to show the “W” icon. Only display “W” can enter timer function setting.	
Long press  to set 1st period DHW timer’s Monday.		Press  to enter the setting, and press  to set Monday ON/OFF. If don’t need to modify Monday default settings, press  to enter Tuesday setting.
	Press  to enter the setting, and press  to set Tuesday ON/OFF. If don’t need to modify Tuesday default settings, press  to enter Wednesday setting.	
Press  to enter the setting, and press  to set Wednesday ON/OFF. If don’t need to modify Wednesday default settings, press  to enter Thursday setting.		Press  to enter the setting, and press  to set Thursday ON/OFF. If don’t need to modify Thursday default settings, press  to enter Friday setting.

<table>
<tr><td></td><td>Press  to enter the setting, and press  to set Friday ON/OFF.

If don’t need to modify Friday default settings, press  to enter Saturday setting.</td><td></td></tr>
<tr><td>Press  to enter the setting, and press  to set Saturday ON/OFF.

If don’t need to modify Saturday default settings, press  to enter Sunday setting.</td><td></td><td>Press  to enter the setting, and press  to set Sunday ON/OFF.

If don’t need to modify Monday-Sunday default settings, press  to set ON/OFF for 1st DHW timer.</td></tr>
<tr><td></td><td colspan="2">1 ON = 1st DHW timer ON
1 OF = 1st DHW timer OFF

If don’t need to modify 1st DHW timer ON/OFF default settings, press  to set 1st DHW timer start/stop time period.</td></tr>
<tr><td></td><td colspan="2">1o = 1st period timer ON Hour setting
1o = 1st period timer ON Minute setting
1F = 1st period timer OFF Hour setting
1F = 1st period timer OFF Minute setting</td></tr>
<tr><td></td><td>DHW has 4 periods timers.
While setting the 1st timer, press  at switch to 2nd periods through 4th periods timer for setting.
The setting method are same as 1st period timer.</td><td></td></tr>
<tr><td>Press  to exit the timer settings.</td><td></td><td></td></tr>
</table>

5.9.2. Disinfect timer function

	Press  some times until to show the “W” icon. Only display “W” can enter timer function setting.	
Long press  to enter the interface of 1st period DHW timer’s Monday with “W” and “HW” first.		/
Long press  twice to enter to Disinfect timer’s Monday setting with “W” and “Disinfect icon”.		/
	Press  to enter the setting, and press  to set Monday ON/OFF. If don’t need to modify Monday default settings, press  to enter Tuesday setting.	
Press  to enter the setting, and press  to set Tuesday ON/OFF. If don’t need to modify Tuesday default settings, press  to enter Wednesday setting.		Press  to enter the setting, and press  to set Wednesday ON/OFF. If don’t need to modify Wednesday default settings, press  to enter Thursday setting.
	Press  to enter the setting, and press  to set Thursday ON/OFF. If don’t need to modify Thursday default settings, press  to enter Friday setting.	

Press to enter the setting, and press to set Friday ON/OFF.		Press to enter the setting, and press to set Saturday ON/OFF.
If don't need to modify Friday default settings, press to enter Saturday setting.		If don't need to modify Saturday default settings, press to enter Sunday setting.
	Press to enter the setting, and press to set Sunday ON/OFF.	
	If don't need to modify Monday-Sunday default settings, press to set ON/OFF for Disinfect timer.	1 ON =Disinfect timer ON 1 OF =Disinfect timer OFF
If don't need to modify Disinfect timer ON/OFF default settings, press to timer start/stop time period.	Press to enter start/stop time period setting interface and press to set the operating time.	Press to exit the Disinfect timer settings.

Note: The disinfect timer is set to start at 02:00 AM every Tuesday by factory default.

5.9.3. Holiday timer function

	Press some times until to show the "W" icon. Only display "W" can enter timer function setting.	
Long press to enter the interface of 1st period DHW timer's Monday with "W" and "HW" first.		/
Long press thrice to enter the interface of Holiday timer start year with "Y" and "Holiday".		/

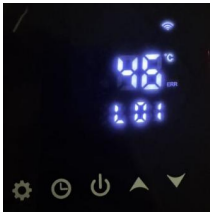
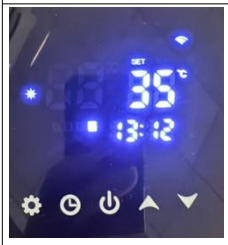
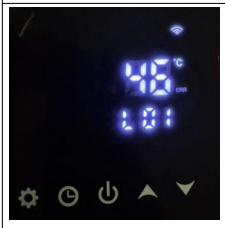
Press to enter the year setting, and press to set the starting year.		Press to enter the month setting, and press to set the starting month.
If not need to set the year, press to set holiday timer starting month.		If not need to set the month, press to set holiday timer starting day.
	Press to enter the starting day setting, and press to set starting day.	
	If not need to set, please press to set holiday timer ending year.	
Press to enter ending year setting, and press to set ending year.		Press to enter the ending month setting, and press to set ending month.
If not need to set ending year, please press to set holiday ending month.		If not need to set ending month, please press to set holiday ending day.
	Press to exit the Holiday timer settings.	

5.9.4. Mute timer function

	Press  some times until to show the “W” icon. Only display “W” can enter timer function setting.	
Long press  to enter the interface of 1st period DHW timer’s Monday with “W” and “HW” first.		Long press  quintic to enter the interface of 1st Mute timer’s Monday with only “W” and without any other function indicated icon.
	Press  to enter the Monday setting, and press  to set Monday ON/OFF. If don’t need to modify Monday default settings, press  to enter Tuesday setting.	
Press  to enter the Tuesday setting, and press  to set Tuesday ON/OFF. If don’t need to modify Monday default settings, press  to enter Wednesday setting.		Press  to enter the Wednesday setting, and press  to set Wednesday ON/OFF. If don’t need to modify Wednesday default settings, press  to enter Thursday setting.
	Press  to enter the Thursday setting, and press  to set Thursday ON/OFF. If don’t need to modify Thursday default settings, press  to enter Friday setting.	

Press  to enter the Friday setting, and press  to set Friday ON/OFF.		Press  to enter the Saturday setting, and press  to set Saturday ON/OFF.
If don't need to modify Friday default settings, press  to enter Saturday setting.		If don't need to modify Saturday default settings, press  to enter Sunday setting.
	Press  to enter the Sunday setting, and press  to set Sunday ON/OFF.	
	If don't need to modify Monday-Sunday default settings, press  to set ON/OFF for Mute 1st timer.	
1 ON = 1st Mute timer ON 1 OF = 1st Mute timer OFF	   	1o = 1st period timer ON Hour setting 1o = 1st period timer ON Minute setting 1F = 1st period timer OFF Hour setting 1F = 1st period timer OFF Minute setting
If don't need to modify 1st Mute timer ON/OFF default settings, press  to set 1st Mute timer start/stop time period.		
	Mute function has 2 periods timers. While setting the 1st timer, press  to switch to 2nd periods timer for setting. The setting method are same as 1st period timer.	
Press  to exit the Mute timer settings.		

5.10 Error information

	If there is a malfunction, the main interface will display the ERROR icon.	Press  for 3 seconds to check Unit Status information .
	Press  for 3 seconds again to check Unit Error information .	
	If there isn't any malfunction, the main interface will not display the ERROR icon.	Press  for 3 seconds to check Unit Status information
	Press  for 3 seconds to check Unit Error history.	

Code	Description	Fault analysis	Check method	Solution
EEC	Communication failure between main control board and the wire controller	1. The communication line is not connected properly. 2. The communication port of controller is damaged. 3. The communication port of the main board is damaged.	Check the connection wires	Replace the communication cable and connect it properly. If that doesn't work, replace new wire controller. If it still doesn't work, replace the main board.
E01	DHW tank Temp. sensor failure	The temperature sensor has temperature deviation or open circuit.	Check the resistance of the temperature sensor or whether the temperature sensor is disconnected.	Replace new temperature sensor or reconnect the wire.
E02	Heating tank Temp. sensor failure			
E03	Return water Temp. sensor failure			
E04	Outlet water Temp. sensor failure			
E05	Exhaust Temp. sensor failure			
E06	Return gas Temp. sensor failure			
E07	Coil Temp. sensor failure			
E08	Ambient Temp. sensor failure			
E09	Return air Temp. sensor failure			
E10	Room 1 Temp. sensor failure			
P17	Ambient temperature ultralow protection	Beyond the unit operating temperature range	If the ambient temperature is not consistent with the current displayed value, please check if the sensor is damaged.	If the Temp. sensor value is normal, no action is required. The unit will automatically switch to electric heater for heating.
P18	Ambient temperature overheat protection	Beyond the unit operating temperature range	If the ambient temperature is not consistent with the current displayed value, please check if the sensor is damaged.	If the Temp. sensor value is normal, no action is required. The unit will automatically switch to electric heater to heat.
P01	High pressure switch protection	1. Water flow is too small; 2. High-pressure switch failure; 3. Refrigeration system is blocked; 4. EEV is locked.	1. Check whether there is water shortage or insufficient water pump flow; 2. Check whether the high-pressure switch is disconnected due to heat pump are turned off; 3. Check whether the refrigeration system is blocked; 4. Check whether the EEV makes a resetting sound when the heat pump is in shutdown mode and the power is turned on or off.	1. Refill water or replace a water pump with a larger flow rate or add a booster pump; 2. Replace new high-pressure switch; 3. Replace new filter; 4. Replace new EEV.

P02	Low pressure switch protection	1. Lack of refrigerant; 2. Refrigeration system is blocked; 3. Exceeding the system working range;	1. Check if the refrigerant system is leaking; 2. Check if the filter is clogged; 3. Check if the ambient temperature or outlet water temperature exceeds the limit.	1. Repair the leakage and refill the refrigerant. 2. Replace new filter; 3. If the system exceeds the operating limit, shut down the unit;
P03	Air exhaust temperature overheat protection	1.Lack of refrigerant; 2.Exhaust temperature sensor failure.	1. Check if the refrigerant system is leaking; 2. Check whether the exhaust temperature sensor is faulty.	1. Repair the leakage and refill the refrigerant. 2. Replace new exhaust temperature sensor.
P04	Water flow switch protection	1. The system lacks water. 2. The water flow switch failure. 3. The water system is blocked. 4. The temperature difference between inlet water and outlet water is too big.	1. Check whether the water supply valve is closed or the water supply is cut off; 2. Check whether the water flow switch is blocked or interrupted 3. Check whether the Y-filter is clogged.	1. Turn on the valve; 2. Replace new one water flow switch; 3. Clean or replace new filter screen.
P05	Secondary water flow switch protection			
P07	Overheated outlet water temperature protection	Self-recovery	Self-recovery	Self-recovery
P08	Overlarge temperature difference between inlet and outlet water protection	1. The system lacks water. 2. The water flow switch failure. 3. The water system is blocked. 4. The temperature difference between inlet water and outlet water is too big.	1. Check whether the water supply valve is closed or the water supply is cut off; 2. Check whether the water flow switch is blocked or interrupted 3. Check whether the Y-filter is clogged.	1. Turn on the valve; 2. Replace new one water flow switch; 3. Clean or replace new filter screen.
P09	DC fan 1 failure	1. The connection cable between the fan board and the main board is damaged. 2. The fan board is damaged. 3. The fan wire is not plugged into the circuit board. 4. The fan is broken.	1. Check if the connection cable between the fan board and the main board has come loose. 2. Check if the lights on the fan board are still on.	1. Replace the new connection wire. 2. Replace the fan board. 3. Insert the fan wire onto the circuit board. 4. Replace the new fan.
P11	Defrosting and anti-freezing protection	When the outlet water temperature during defrosting drops below 5 degrees, the defrosting process will be forcibly stopped.	Self-recovery	No need to handle
F01	High pressure switch protection three times	1. Water flow is too small; 2. High-pressure switch failure; 3. Refrigeration system is blocked; 4. EEV is locked.	1. Check whether there is water shortage or insufficient water pump flow; 2. Check whether the high-pressure switch is disconnected due to heat pump are turned off; 3. Check whether the refrigeration system is blocked; 4. Check whether the EEV makes a resetting sound when the heat pump is in shutdown mode and the power is turned on or off.	1. Refill water or replace a water pump with a larger flow rate or add a booster pump; 2. Replace new high-pressure switch; 3. Replace new filter; 4. Replace new EEV.

F02	Low pressure switch protection three times	1. Lack of refrigerant; 2. Refrigeration system is blocked; 3. Exceeding the system working range;	1. Check if the refrigerant system is leaking; 2. Check if the filter is clogged; 3. Check if the ambient temperature or outlet water temperature exceeds the limit.	1. Repair the leakage and refill the refrigerant. 2. Replace new filter; 3. If the system exceeds the operating limit, shut down the unit;
F03	Air exhaust temperature overheat protection three times	1.Lack of refrigerant; 2.Exhaust temperature sensor failure.	1. Check if the refrigerant system is leaking; 2. Check whether the exhaust temperature sensor is faulty.	1. Repair the leakage and refill the refrigerant. 2. Replace new exhaust temperature sensor.
F04	Water flow switch protection three times	1. The system lacks water. 2. The water flow switch failure. 3. The water system is blocked. 4. The temperature difference between inlet water and outlet water is too big.	1. Check whether the water supply valve is closed or the water supply is cut off; 2. Check whether the water flow switch is blocked or interrupted 3. Check whether the Y-filter is clogged.	1. Turn on the valve; 2. Replace new one water flow switch; 3. Clean or replace new filter screen.
F05	Secondary water flow switch protection three times			
F07	Overheated outlet water temperature protection three times	Tw and Tc sensor may become loose, resulting in the inability to sense the correct water tank temperature.	Check the reason why the outlet water has reached the target temperature but neither the hot water nor the heating has not reached the desired temperature.	
F08	Overlarge temperature difference between inlet and outlet water protection three times	1. The system lacks water. 2. The water flow switch failure. 3. The water system is blocked. 4. The temperature difference between inlet water and outlet water is too big.	1. Check whether the water supply valve is closed or the water supply is cut off; 2. Check whether the water flow switch is blocked or interrupted 3. Check whether the Y-filter is clogged.	1. Turn on the valve; 2. Replace new one water flow switch; 3. Clean or replace new filter screen.
F09	DC fan 1 failure three times	1. The connection cable between the fan board and the main board is damaged. 2. The fan board is damaged. 3. The fan wire is not plugged into the circuit board. 4. The fan is broken.	1. Check if the connection cable between the fan board and the main board has come loose. 2. Check if the lights on the fan board are still on.	1. Replace the new connection wire. 2. Replace the fan board. 3. Insert the fan wire onto the circuit board. 4. Replace the new fan.
F11	Defrosting and anti-freezing protection three times	When the outlet water temperature during defrosting drops below 5 degrees, the defrosting process will be forcibly stopped.	To prevent damage to the heat exchanger caused by defrosting when the outlet water temperature is below 5 degrees, please power off the unit and restart.	First heat the water.

(4) Open the "MaxT" APP, go to 'More' and select 'Bluetooth provisioning' (as shown in Figure 1).

(5) Click the 'Add' button on the right side of the device detecting interface (as shown in Figure 2). Enter the WIFI account and password (as shown in Figure 3), and finally complete the network configuration (as shown in Figure 4).

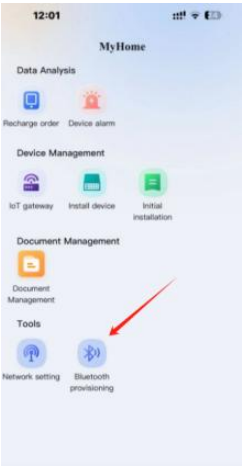


Figure 1



Figure 2



Figure 3



Figure 4

(6) After completion, the account will be automatically bound to the device.