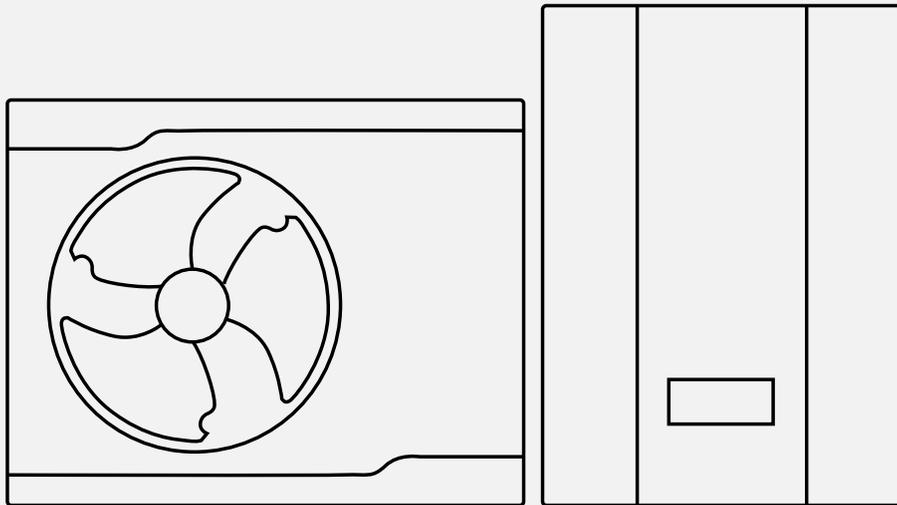


BAUF

BAUF USER MANUAL HEAT PUMP
AIR TO WATER SPLIT SAUER R32



WARRANTY CARD

- 1. Important information 08**
 - Symbols..... 08
 - Safety 08

- 2. How heat pumps works 10**

- 3. Operation with controller..... 10**

- 4. Maintenance and trouble 19**

- 5. Contact Information..... 20**

BAUF

Certificate of warranty

Model

Company

Factory №

Release date

Date of sale

Seller's signature

Store stamp

Installation

Name of installation organization, address

License #

Name of the installer

Data

Phone #

Signature

Seal

I hereby confirm that the device has been put into operation, is in good working order, I am familiarized with the safety and operating instructions.

Owner's signature

Warranty and service marks

Name of Service Center

Fault and trouble

Completed repairs

The full name of the Master

Repair Date

Signature

Stamp

Warranty and service marks

Name of Service Center

Fault and trouble

Completed repairs

The full name of the Master

Repair Date

Signature

Stamp

Warranty and service marks

Name of Service Center

Fault and trouble

Completed repairs

The full name of the Master

Repair Date

Signature

Stamp

WARRANTY CARD

Product Type

Model

Date of purchase

Serial Number

Seller information

Store Name

Address

Phone

Customer information

NAME

Address

Phone

I acknowledge receipt of a serviceable product,
familiarized with the terms of warranty

Buyer's signature

Place of seller's stamp

ATTENTION!

*The warranty card is valid
only if the seller's seals
are on the cover page!*

DEAR CUSTOMER

When purchasing the product, please fill in the warranty card. No quality claims will be accepted and no warranty service will be provided without this warranty card or if it is incorrectly filled out.

Warranty terms

5 years

The warranty period
for the heat pump

7 years

The warranty period
for the compressor

WARRANTY OBJECT

The warranty covers factory defects in construction and materials as well as faults resulting from normal use.

WARRANTY EXCLUSIONS

The warranty does not apply to:

- Damage caused by improper operation, installation, maintenance or transportation.
- The system does not comply with the parameters specified in the technical documentation (e.g. incorrect connection, use of non-standard components or incorrect configuration).
- Damage due to external factors such as voltage fluctuations, dust, contamination, mechanical damage or exposure to chemicals.
- Tightness failures due to improper installation, mechanical damage or corrosion.
- Use of the equipment in conditions not intended by the manufacturer (e.g. in excessively humid or contaminated areas).
- Equipment operation when external components (e.g., faulty pumps, valves, and other auxiliary systems) are malfunctioning.

Warranty Service

- To receive warranty service, the buyer must provide the air conditioner and this warranty certificate to an authorized service center.
- All maintenance and repairs must be carried out only by authorized and qualified specialists trained in servicing air conditioners using the specified refrigerant.

WARRANTY SERVICE FULFILLMENT TERMS

Warranty repair will be made within 14 working days from the date of confirmation of the defect by the service center, if the equipment does not require long-term special spare parts.

EQUIPMENT REPLACEMENT OR REPAIR

If the equipment cannot be repaired within the warranty period, it may be replaced with a new or similar unit. Replacement is at the manufacturer's expense if the fault is confirmed within the warranty conditions.

LIMITATIONS OF LIABILITY

The manufacturer is not responsible for:

- Indirect losses, including loss of profit or missed opportunities.
- Costs related to installation, removal, and reinstallation of equipment if the warranty is not confirmed.

Operating Conditions

- Operating temperature range: -25°C to +45°C.
- Use of the equipment under conditions not specified in the instructions may void the warranty.
- The instructions for maintenance and regular inspection of the system must be observed.

Maintenance and Inspections

- Annual heat pump maintenance is recommended to maintain the warranty.
- Maintenance includes checking system leaks, cleaning filters, and checking the operation of all system components.

In the event of a justified complaint, it should be addressed to the nearest service department recommended by the manufacturer, which reserves the right to repair the product, replace the defective part or replace the defective product with a serviceable one.

If the warranty card is lost, it will not be restored and the warranty obligation will be terminated.

All information about the performed repair work is entered by the service center master in the corresponding column of the warranty card.

Repairs made outside the scope of this warranty must be paid for.

The procedure for warranty services shall be determined by the seller.

1. IMPORTANT INFORMATION

■ Symbols



Symbol indicating important information



This appliance used a flammable refrigerant. If the refrigerant is leaked and exposed to an external ignition source, there is a risk of fire.



Symbol indicating danger to person or device



The operation manual should be read carefully



Symbol indicating useful information and instructions



This information is available such as the operating manual or installation manual



A service personnel should be handing this equipment with reference to the installation manual

The serial number is located on the unit boxes and also on the units.

This manual describes installation and maintenance procedures to be performed by qualified specialist. We accept no liability for damage caused by failure to follow these instructions. Provide documentation to the customer and equipment owner.

■ Safety

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.

This heat pump unit is a hermetically sealed equipment that contains fluorinated greenhouse gases (A2L).

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

The instructions for appliances having a part of class III construction supplied from a detachable power supply unit shall state that the appliance is only to be used with the power supply unit provided with the appliance.

- This Machine is not allowed to be installed by the user. A professional installer must install it.
- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- Always wear appropriate PPE when handling the heat pump. This includes safety gloves, goggles, and protective clothing to avoid direct contact with refrigerant or sharp components.
- When installing the device, observe the safety instructions given in this installation manual and in accordance with the local law and directives.
- Keep children away from the equipment.

- The manufacturer is not responsible for improper use or other than intended use.

- Do not allow equipment to freeze.

- Do not start equipment if there is a risk that the water in the system has frozen.

- Incorrect installation of equipment or accessories may cause injury electric current, short circuit, leakage, fire or damage.

- Do not modify, replace or disconnect any safety or control equipment.

- Wear appropriate personal protective equipment (gloves, goggles, etc.) when installation or maintenance of equipment.

- If water escapes from the appliance, there is a risk of scalding. Never touch hot heating water.

R32 refrigerant

This unit contains a fluorinated greenhouse gas that is covered by the Kyoto agreement. The equipment contains R32, a fluorinated greenhouse gas with a GWP value (Global Warming Potential) of GWP 675. Do not release R32 into the atmosphere.

- Be aware that the R32 refrigerant does NOT contain an odour.

- Only certificated person is allowed to do installation, operation and maintenance.

- Marking of equipment using signs: Compliance with local regulations.

- Disposal of equipment using flammable refrigerants: Compliance with national regulations.

- Transport of equipment containing flammable refrigerants: Compliance with the transport regulations

- Before work is started on systems that contains combustible refrigerants, safety checks must be performed to ensure that the ignition risk is kept to a minimum.

- If hot work is carried out on the heat pump, a powder or carbon dioxide fire extinguisher must be to hand.

- All maintenance personnel and individuals working near the product must be informed about the specific tasks to be performed. Avoid performing work in confined spaces. The area around the worksite should be secured with barriers. Make sure the environment is safe by removing any flammable materials.

- Detection of flammable refrigerants.

Before and during the work, use an appropriate refrigerant detector to check for the presence of refrigerant in the area. This will alert the service technician to any potential flammable atmosphere. Ensure the refrigerant detector is designed for flammable refrigerants and does not produce sparks or cause ignition in any manner.

Under no circumstances shall potential sources of ignition be used in the searching for or detection of refrigerant leaks. A halide torch (or any other detector using a naked flame) shall not be used.

- There is flammable refrigerant in the unit and it should be installed in a well-ventilated site. If the unit is installed inside, an additional refrigerant detection device and ventilation equipment must be added in accordance with the standard EN378. Be sure to adopt adequate measures to prevent the unit from being used as a shelter by small animals.
- When working on or near the unit, use tools and equipment that are certified for use with flammable refrigerants. Ensure that no sparks or heat are generated during maintenance activities.
- Pipes connected to the unit must be free of any potential ignition sources. Those working on refrigerant system connections, including handling pipes that contain or previously contained flammable refrigerants, must avoid using ignition sources that could create fire or explosion hazards. All possible ignition sources, including smoking, should be kept at a safe distance from the service area where flammable refrigerant leaks may occur. Before starting any work, the surrounding area must be inspected to ensure there are no ignition risks, and "No Smoking" signs should be clearly displayed.

When replacing electrical components, ensure the replacement parts are suitable for the intended purpose and meet the correct technical specifications. Always adhere to the manufacturer's guidelines for maintenance and servicing. If any uncertainty arises, contact the manufacturer's technical support team. The following checks must be performed for installations using flammable refrigerants:

- The actual refrigerant charge is appropriate for the size of the space where the refrigerant-containing parts are installed.
- Ventilation systems and outlets operate correctly and are unobstructed.
- For systems with an indirect refrigerant circuit, verify that the secondary circuit contains refrigerant.
- Ensure all equipment markings are clear and visible; any unclear labels or signs must be replaced.
- Refrigerant pipes and components are arranged to avoid exposure to substances that could corrode the refrigerant-containing parts, unless those components are made of corrosion-resistant materials or are properly protected from corrosion.

Electrical

- Work on electrical equipment may only be carried out by a qualified electrician.
- Prior to the initial commissioning, certified heating contractors must inspect all safety-critical aspects. The system should then be commissioned either by the system installer or by a qualified individual authorized by the installer.
- A note that all work must be carried out in accordance with local regulations and directives.

- The equipment should be installed using an isolator switch. The cable size needs to be determined according to the fuse rating utilized.

- Do not put your fingers into electrical things and use ESD gloves.

- Before starting work on the product, follow these steps:

- Disconnect the product from the power source by turning off all power supplies on all poles.
- Ensure it cannot be re-energized.
- Wait for the capacitor to discharge.
- Verify that there is no voltage.

- Check the connections, main voltage and phase voltage before the product is started, to prevent damage to the heat pump electronics.

- Do not twist, loosen or pull external heat pump cables.

- Always measure the voltage at the contacts, V whose chain you plan to interfere with.

Storage

- The appliance shall be stored so as to prevent mechanical damage and in a well-ventilated room without continuously operating ignition sources (example: open flames, an operating gas appliance) and have a room size as specified below.

- The storage area must comply with local regulations for the storage of flammable gases.

- Keep the unit in an environment with a stable temperature, ideally between 5°C and 30°C (41°F and 86°F), to prevent excessive pressure buildup inside the system.

- Avoid stacking or placing heavy objects on top of the unit to prevent damage to the pipes and components.

- Implement an explosion prevention strategy for storage.

2. HOW HEAT PUMPS WORKS

Main components

1. Inverter Compressor

The compressor is the heart of the heat pump system. It is a "steam pump" that compresses low-temperature and low-pressure vapor into high-temperature and high-pressure vapor, and provides power for the refrigerant to circulate in the heat pump system.

2. Heat exchanger

Heat exchanger is a kind of water side heat exchanger. It is used as a condenser and an evaporator. When heating, it is a condenser, which condenses the high-temperature and high-pressure gaseous refrigerant into a medium-temperature and high-pressure liquid state, and transfers the condensation heat to the heat exchange medium (water); when cooling, it is an evaporator, which converts the low-temperature and low-pressure liquid state The refrigerant evaporates into a gaseous refrigerant, absorbing heat from the heat transfer medium (water) during evaporation.

3. Electronic expansion valve

Throttling and pressure-reducing device, throttling medium-temperature and high-pressure liquid refrigerant into low-temperature and low-pressure liquid refrigerant

4. Fan

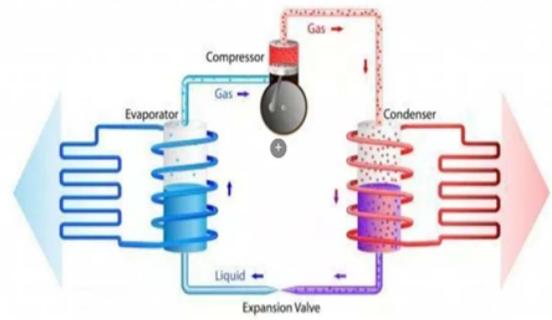
The outdoor fan provides strong air convection during the heat exchange of the fin heat exchanger to enhance the heat exchange effect.

5. Circulation pump

The circulating water pump provides power for transporting the heat transfer medium (water) in the heat pump water system, and then takes away the heat in the water side heat exchanger through the heat transfer medium (water) to increase or decrease the temperature of the heat transfer medium (water)

Explanation

The heat pump system is mainly composed of four major components: compressor, condenser, throttling device and evaporator. Its working principle is to use electric energy to drive the compressor to compress the low-temperature and low-pressure gaseous refrigerant into high-temperature and high-pressure steam, then condense and dissipate heat in the condenser (plate heat exchanger), and release the heat to the heat transfer medium (water), the heat source is provided to the user through the heat transfer medium (water) for heating or domestic hot water; the condensed medium-temperature and high-pressure refrigerant becomes a low-temperature and low-pressure liquid after being throttled by the throttling device, and then passes through the evaporator (fin Plate heat exchanger) absorbs heat into the air environment and vaporizes to form a low-temperature and low-pressure gas, which enters the compressor again to be compressed, thus forming a repeated cycle.



3. OPERATING WITH CONTROLLER



The operation manual should be read carefully.



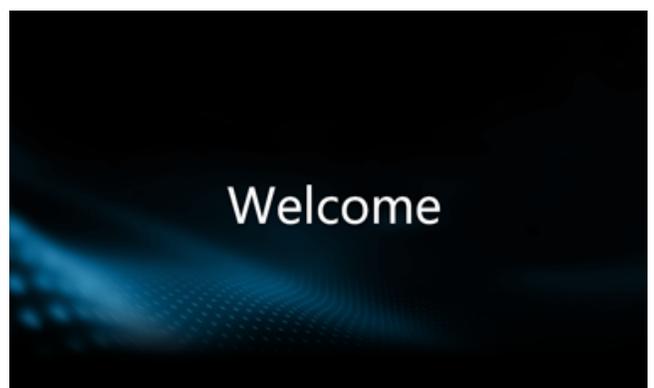
This information is available such as the operating manual or installation manual.



A service personnel should be handling this equipment with reference to the installation manual.

Using main page

After connecting the power, the controller will enter the language selection interface, after selecting the language, click **Next** to enter the welcome page;





If you don't operate it after entering the language selection interface, the first language will be selected by default after 2 minutes to enter the welcome page.

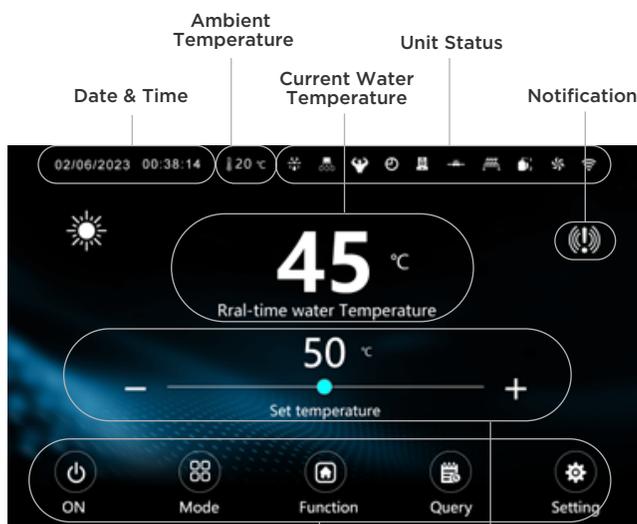
Icon description

The main page is displayed. The icons on the screen represent the following meanings



After entering the welcome page 3s, the wired controller will go to the main page. No operation for 2 minutes the screen will turn off and click on the screen to turn it back on. (If there is a communication failure, it will stay on the welcome page.)

Icon				
Operation Mode	Underfloor Heating	Heating	Cooling	Hot water



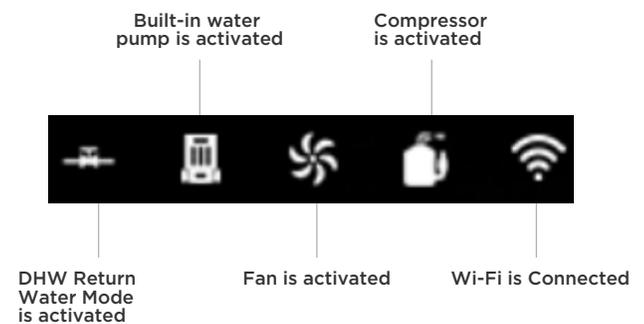
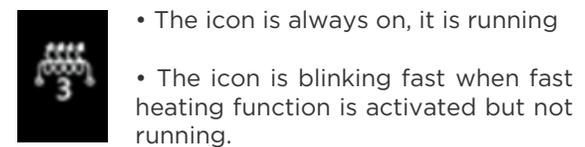
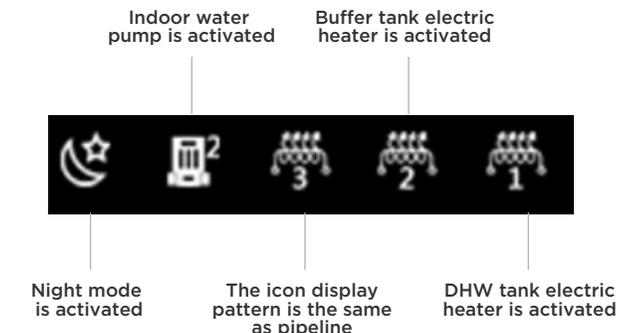
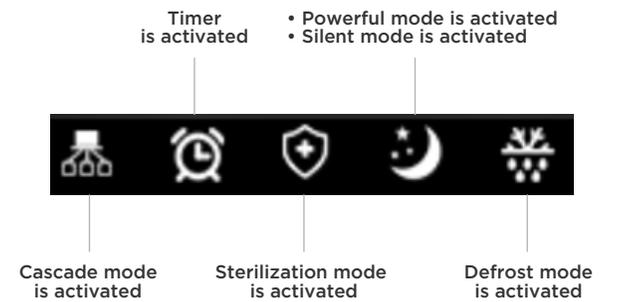
Ambient Temperature
Unit Status
Date & Time
Current Water Temperature
Notification

Operation
Set Water Temperature

Icon			
Operation Mode	Underfloor Heating+ Hot water	Heating+ Hot water	Cooling+ Hot water



Unit status icon

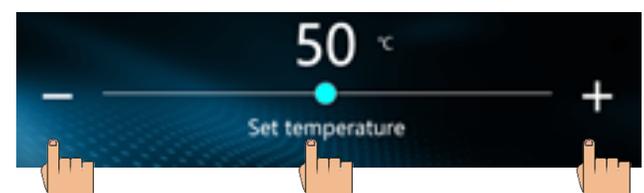


- The icon is always on, it is running
- The icon is blinking when it is set but

Unit status icon

When there is a unit failure, blinking display, You can click this icon to view real-time faults or fault records.

Set Water Temperature icon



Just touch - or + or Slide the point on the horizontal bar to adjust the temperature of cooling, heating, and floor heating.

Operation icon



The 5 icons in the operation area allow access to different pages of the wired controller for different functional operations.

ON/OFF button

Click  to control the unit to turn on and off.

Mode button

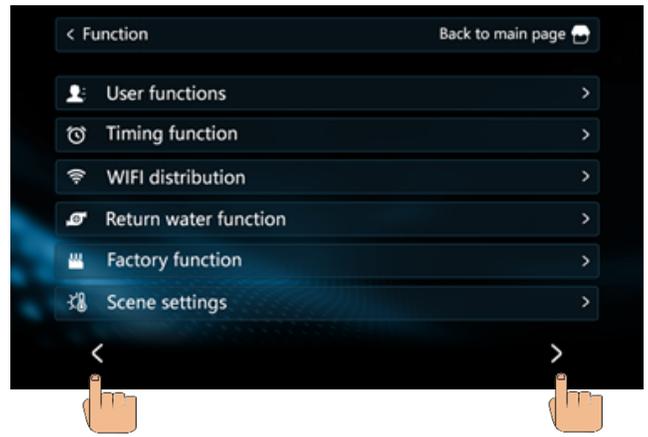


Enter the mode selection function page. Click the corresponding mode on the mode selection page to realize the mode switching operation, press the top left corner **Mode** or top right **Back** can go back to the main page; Then the top left corner display the current mode icon.

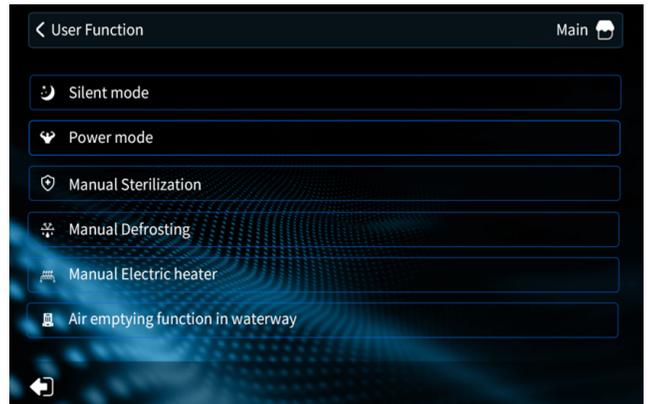


The above is all the introduction of Mode button.

Function button



User functions



Touch  **User functions** to enter user function setting page.

Silent mode Reduced compressor frequency and fan speed to reduce unit noise.

Power mode Increase the compressor frequency and fan speed to increase the capacity of the unit.

Sterilization mode Unit will operate sterilization mode. Parameters 8-12 are used to set the sterilization mode.

Manual Defrosting Unit will operate the defrosting mode.

Manual Electric Heater Unit will turn on the AHS and electric heater for fast heating

Air emptying function Unit will run the water pump to circulate the water circuit and discharge the air.

FOR EXAMPLE

Sterilization Mode:

When 8=0,9=7,10=23,11=10,12=70 and the sterilization mode is enabled, the unit will run sterilization once at 23:00 and 7 days interval, the sterilization will continue to run at 70°C water temperature for 10Min and then exit; the next time it will be turned on will be at 23:00 after 7 days.

Note:

When the unit operating silent mode will reduce heating capacity.

Timing function

Touch  **Timing function** to enter setting page. It can set the unit to turn on or off on different days and time periods.

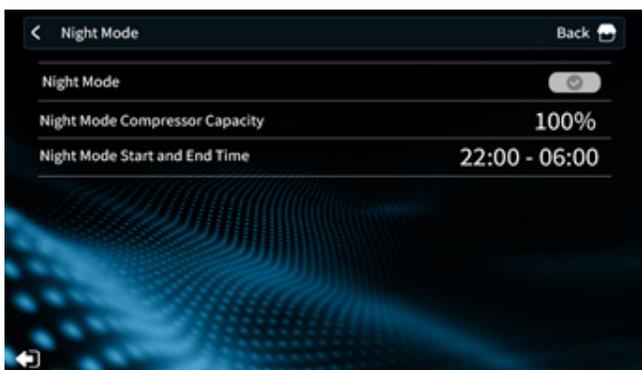


Repeat:

Run every day according to the set timer.

Night mode

In the function interface, click  **Night Mode** to enter the night mode interface.



Click **Night Mode** to activated/deactivated night mode.

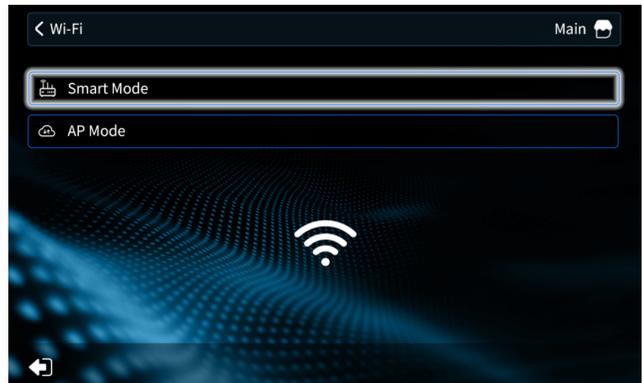
The percentage of compressor capacity and running time can be set, and the unit automatically enters the night mode within the set time; outside the set time, the night mode is switched off.



If you reduce the compressor capacity, then the unit Heating capacity will be reduced as well.

WIFI distribution

Touch  **WIFI distribution** to enter setting page. You need to turn on Wi-Fi first and then use the app to connect.

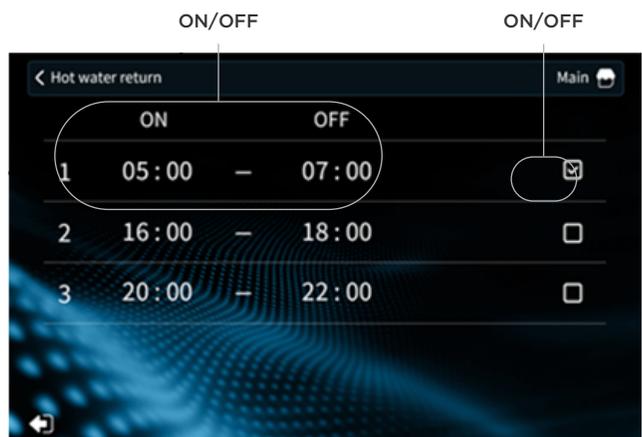


Recirculation water function



Only installer mount this accessories!

Touch  **Return water function** to enter setting page.



Factory function

Touch  **Factory function** to enter setting page.



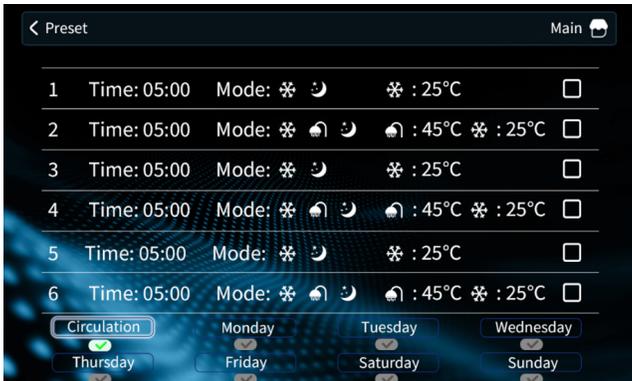
This page is for factories and installers only. Adjusting parameters may affect the normal operation of unit.



Scene settings

In function selection page, touch  to enter scene setting page.

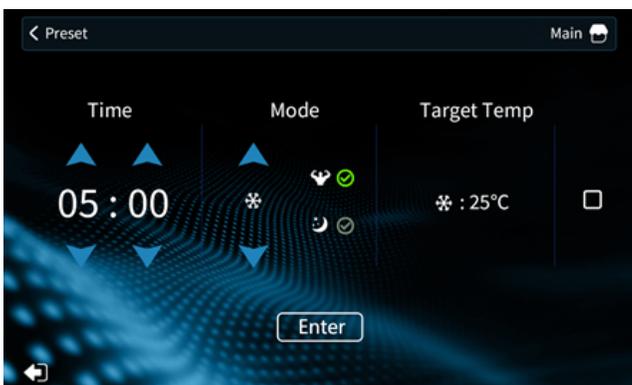
In the scene setting, you can set the unit to run in different modes and target temperatures on different days and time periods and set different scenes according to different needs.



Select the preset date first, then set the time and mode and target temperature, and enable , click "Enter".  will also light up.

The preset will take effect only when  and  are lit at the same time.

Click on any section to enter the preset detailed Settings of that section, as shown in the following figure:



Click  to enable the powerful function, click  to enable the mute function. When enabled, the corresponding icon will turn green; when not enabled, it will turn gray. When neither is used, it will be in the standard mode.

Click  : 25°C to enter the preset setting temperature adjustment. When the mode is selected as the combined mode, there are two preset setting temperatures.

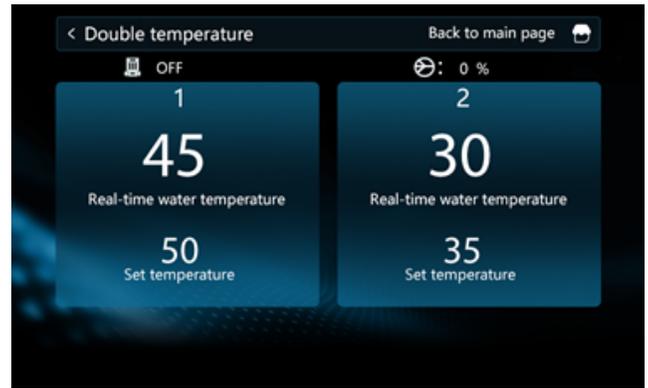
Click  to enable/disable this preset section.

Click  to save the Settings and exit.

Double temperature zone

If the  Double temperature zone icon is dark, it means Double temperature zone is not enabled, it is disabled by factory default.

 Double temperature zone At this point, the icon lights up, and clicking to enter will allow you to double temperature zone.



Smart power grid

If the  Smart power grid icon is dark, it means SG Ready is not enabled, it is disabled by factory default.

Click on the top left or top right corner to return to the homepage, press  to enter the settings page, then click on , and press **Enter** on the keyboard to confirm and enter the parameter settings page. Press **<** or **>** to query parameter P255, click on the parameter value on the right to enter the parameter value modification page, click on the parameter value on the right side of "set value", enter "0" on the keyboard, click **Enter**, and then press **OK** to save the parameter.

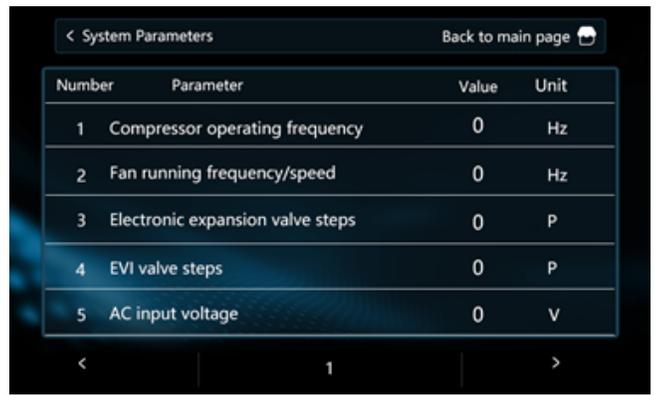
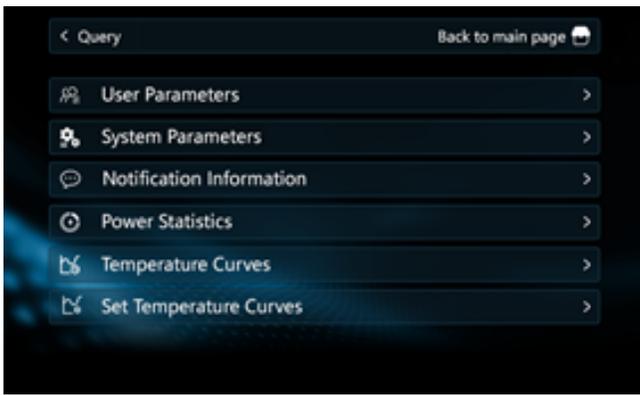
Click on the top right corner to return to the homepage, then click the  button again to enter the function selection page, and press . At this point, the icon lights up, and clicking to enter will allow you to view SG Ready.



The above is all the introduction of Function button.

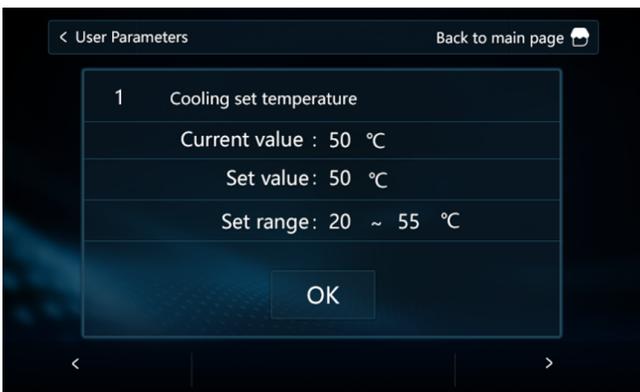
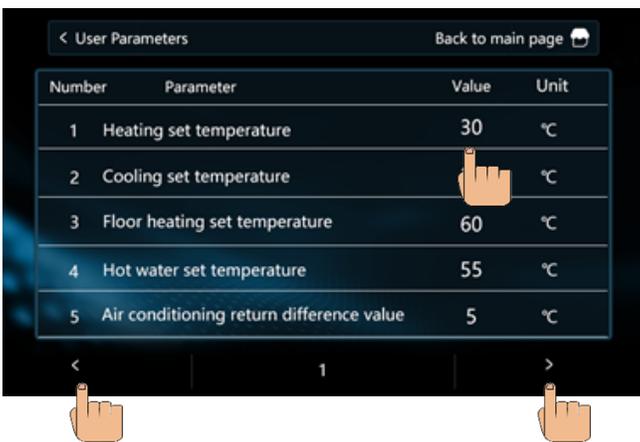
Query button





Using main page

Touch **User Parameters** to enter setting page.



Touch **<** **>** to switch pages. Touch the parameter Value to enter the modify page. Enter the value on the keyboard.

System Parameters

The system parameters provide detailed feedback on the current operation of the unit, and when the unit is operating abnormally, the system parameters can be provided to the installer for analysis.

Touch **System Parameters** to enter the system parameter query page, touch **<** **>** to switch pages.

When unit in cascade mode, touch **System Parameters** and select the units you want to view. Grey means the unit is not connected.



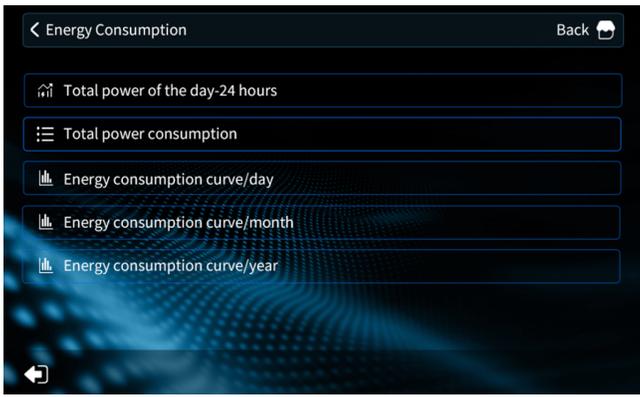
Notification information

When the unit shows error information, **Notification Information** will be displayed on the main page, directly touch **Notification Information** to enter the error message inquiry page.



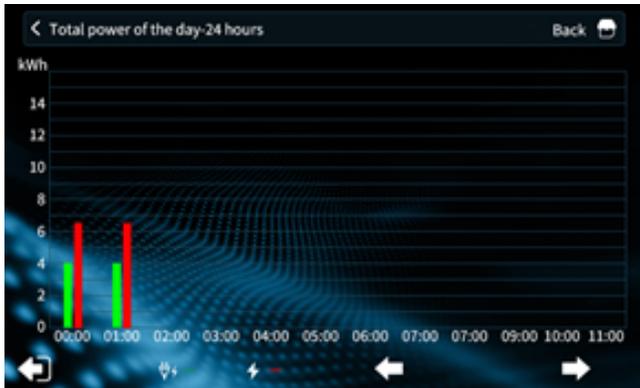
Power Statistics

Touch **Energy Consumption** to query the energy consumption.



Total power of the day-24 hours.

Record power consumption and Heating/Cooling over a 24 hour period, where green is power consumption and red is Cooling/Heating.



Total energy consumption.

Total power consumption	
Total power consumption	12.26 kWh
Total Heating Capacity	6.25 kWh
Total Cooling Capacity	7.16 kWh
Running Time of Compressor	236 min

Energy consumption curve/day.

Data can be recorded for the last 5 years.



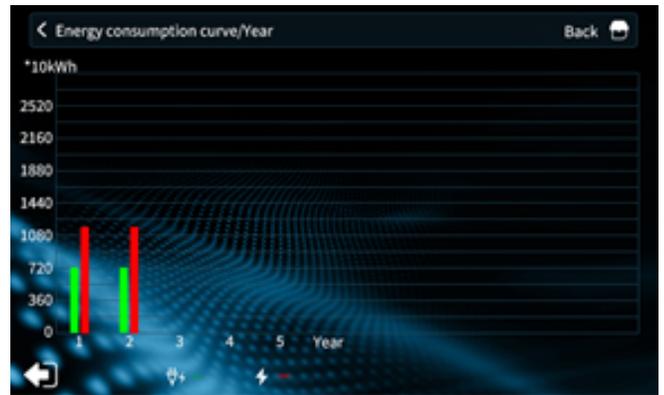
Energy consumption curve/month.

Data can be recorded for the last 5 years.



Energy consumption curve/year.

Data can be recorded for the last 5 years.



COP Query

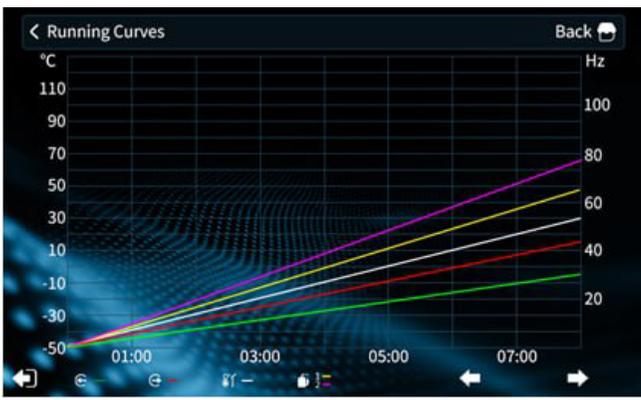
Touch **COP Query** to query the unit COP.

COP Query	
Current power consumption	5632.6 W
Output power	8694.6 W
COP	1.54 W/W

Running Curves

The curves of the unit's operation can visualize its performance, including changes in water temperature at the input and output, variations in compressor and fan frequency, etc.

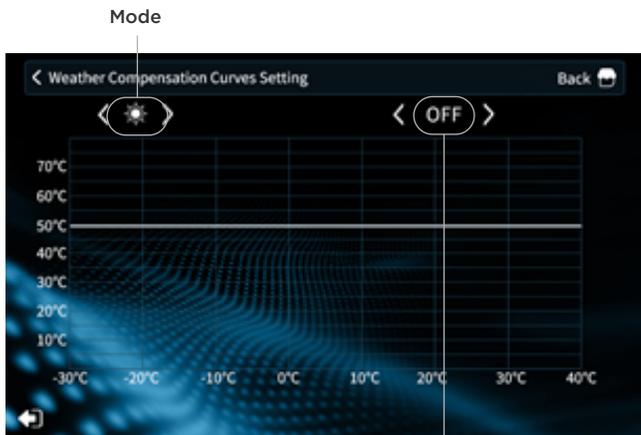
Click **Running Curves** to request the device's operating status.



Set Temperature Curves

Climate temperature curve is used to preset the water outlet temperature depending on the ambient temperature. During the warmer weather the heating is reduced. To save energy, the climate temperature curve can decrease the water outlet temperature when the ambient temperature increased in heating mode.

Touch Weather Compensation Curves Setting to enter the climate temperature curve setting page. Touch < > to select mode and the corresponding different temperature curve.



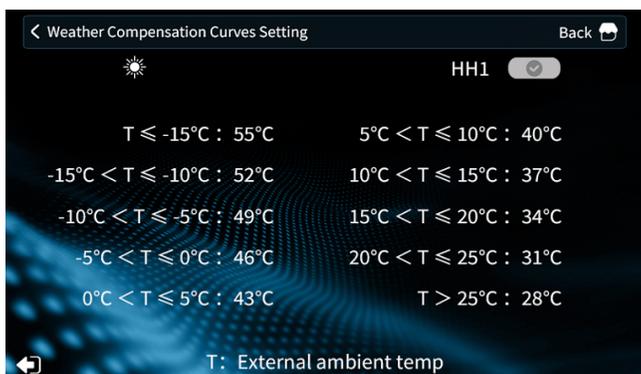
Curve No.

- HH: High temperature curve for heating
- HL: Low temperature curve for heating
- GH: High temperature curve for floor heating
- GL: Low temperature curve for floor heating
- CH: High temperature curve for cooling



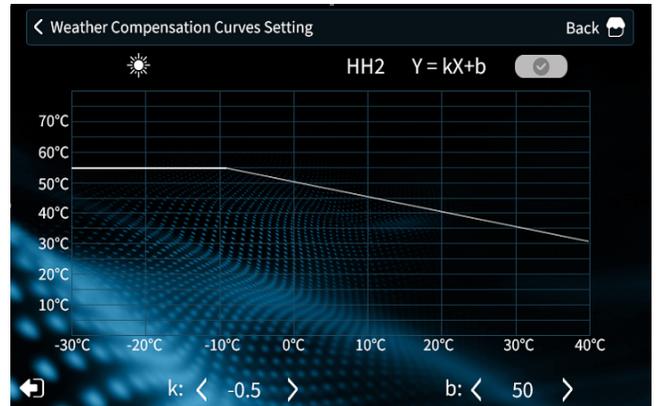
- Heating mode has 16 built-in curves.
- Cooling mode has 16 built-in curves.
- Hot water mode has 4 built-in curves.

When Heating curve HH1 or Floor Heating curve GH1 is selected, click to enter DIY curve setting, click to enable/disable curve DIY, the interface is as follows:



Click the temperature value to set different temperature.

When heating curve HH2 or floor heating curve GH2 or cooling curve CH1 or DHW curve H1 is selected, click to enter DIY curve setting, click to enable/disable curve DIY, the interface is as follows:



The curve is calculated using $Y = kX + b$, where Y is the target temperature, k is the slope, and b is the target temperature when the ambient temperature is 0°C . The values of k and b are adjusted by < >, and the curve will follow the changes during the adjustment.



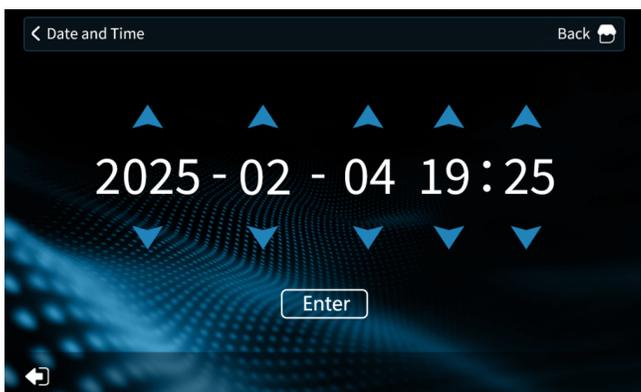
- It only uses the curve of the high temperature setting for heating if the high Temp. is set for heating.
- It only uses the curve of the low temperature setting for heating if the low Temp. is set for heating.
- The water outlet temperature can't be adjusted when the temperature curve is set.
- The climate compensation curves for each series are divided into 2 types, high and low temperature curve, and you can see the appendix for a table of temperature profiles.

Setting button



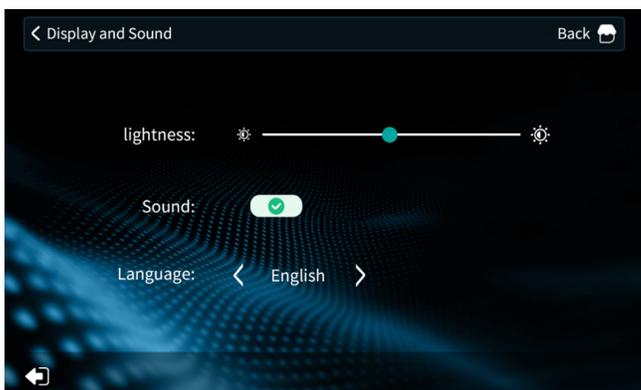
Date & Time

Touch Date & Time to enter the Date & Time setting page. The first installation of the wired controller requires manual setting of the date and time.



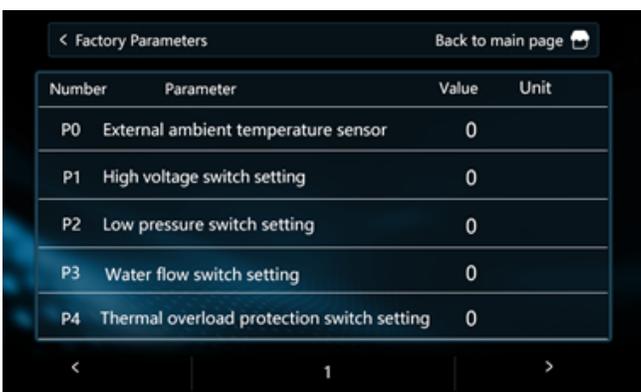
Display & sound

Touch **Display and sound** to enter setting page. You can set the display brightness of the wired controller, turn off the touch sound and change the language display.



Factory Parameters

Touch **Factory Parameters** to enter the setting page. Press **<** **>** to switch pages. Touch the parameter value to enter the modify page. Enter the value on the keyboard.



When unit in cascade mode, touch **Factory Parameters** and select the units you want to view. Grey means the unit is not connected.



This page is for factories and installers only!

Parameter query

Code	Description	Display range
1	Compressor operating frequency	0~150Hz
2	Fan operating frequency/speed	0~999Hz
3	EEV steps	0~480P
4	EVI valve steps	0~480P
5	AC Input voltage 1	0~500V
6	AC Input Current 1	0~50.0A
7	Compressor phase current	0~50.0A
8	Compressor IPM temperature	-40~140°C
9	High pressure saturation temp.	-50~200°C
10	Low pressure saturation temp.	-50~200°C
11	Ambient Temp. T7	-40~140°C
12	Outer Coil Temp. T1	-40~140°C
13	Inner Coil Temp. T4	-40~140°C
14	Suction Temp. T2	-40~140°C
15	Exhaust Temp. T3	0~150°C
16	Water Inlet Temp. T8	-40~140°C
17	Water Outlet Temp. T15	-40~140°C
18	Economizer Inlet Temp.	-40~140°C
19	Economizer Outlet Temp.	-40~140°C
20	Current Unit Tool Number	0~120
21	DHW Tank Temp.T5	-40~140°C
22	Plate Heat Exchan. Exhaust Temp.T16	-40~140°C
23	Driver Manufacturer	0~10
24	Water pump speed PWM	0~100%
25	Water flow	3~100L/min
26	DHW return water temp. T13	-40~140°C
27	Unit A Input voltage	0-500V
28	Unit A Input current	0.00A-99.99A
29	Unit input power	0.00-99.99KW
30	Total power consumption	0-9999Kw.h
31	Compressor 2 operating frequency	0~150Hz
32	Fan 2 operating frequency	0~999Hz
33	EEV-2 steps	0~480P
34	EVI-2 valve steps	0~480P
35	AC2 input voltage 2	0~500V
36	AC2 input current 2	0~50.0A
37	Compressor 2-phase current	0~50.0A
38	Compressor 2IPM temperature	-40~140°C
39	High pressure 2 saturation temp.	-50~200°C

40	Low pressure 2 saturation temp.	-50~200°C
41	System 2 Outer Coil Temp. T9	-40~140°C
42	System 2 Inner Coil Temp. T12	-40~140°C
43	System 2 Suction Temp. T10	-40~140°C
44	System 2 Exhaust Temp. T11	-40~140°C
45	System 2 Economizer Inlet Temp.	0~150°C
46	System 2 Economizer Outlet Temp.	-40~140°C
47	Reserve	
48	Reserve	
49	Reserve	
50	Reserve	
51	Solar Water Heater Temp.	
52	Zone 2 Temp.TH3	
53	Butter Tank Temp.TH4	
54	Reserved	
55	Unit B input voltage	
56	Unit B input current	
57	Unit C input voltage	
58	Unit C input current	
59	Smart grid	
60	Mixing valve opening	

4. MAINTENANCE AND TROUBLE

This section is for informational purposes only, do not perform technical work yourself.



This appliance used a flammable refrigerant. If the refrigerant is leaked and exposed to an external ignition source, there is a risk of fire.



Repair, service and installation must be carried out only by a qualified specialist in accordance with local regulations.

1. All safety protection devices inside the unit are set before the product leaves the factory. Please do not adjust or remove them on your own to avoid damage to the unit.

2. When the unit starts up for the first time or cuts off the power for a long time (more than a day), the next time it starts up, the power supply of the main unit should be turned on in advance to ensure a preheating time of more than 12 hours and avoid damaging the compressor of the main unit.

3. Do not stack debris on the unit, and keep the surroundings dry, clean, and well ventilated.

4. Regularly clean the filters in the water system to avoid blockage that may cause unit protection or damage, and regularly check whether the water system's water replenishment device is functioning properly.

5. When the winter ambient temperature is below zero degrees Celsius, it is strictly prohibited to cut off the power supply, otherwise the anti freezing protection of the unit will fail.

6. When the unit is not in use for a long time, water should be drained from the unit and pipeline system, including the water tank.

7. Do not manually start or stop the unit frequently, and do not manually close the manual regulating valve of the water system while the unit is running.

8. Regularly inspect the working condition of various components of the unit, and also inspect the internal pipeline joints of the unit.

9. When the unit malfunctions and the user is unable to solve it, please contact us in a timely manner so that someone can be sent for repair in a timely manner.

10. Attention should be paid to drainage: if not used for a long time in winter or if there is a power outage for a long time, the water in the water system must be drained completely; Before draining, ensure that the unit is powered off while in standby mode, open the water system drain valve, and at the same time, open the unit drain valve.

- Routinely verify that condensation is properly draining through the condensation pipe. If you're unsure, contact your installer for help.

- Make sure to inspect the grille regularly throughout the year to ensure it isn't obstructed by leaves, snow, or other debris. Pay extra attention during windy weather or snowfall, as blockages can occur more easily.

- Also, check that the rear side remains clear of dirt and leaves. Don't forget to examine the drain holes on the bottom panel to ensure they're not clogged.

- If there is a lot of snow, clear the area nearby.

Basic solutions to problems.



Danger. The water may be hot!



Risk of high voltage!

The heat pump does not start:

1. Check the power.
2. Check fuses and circuit breakers.
3. Check high limit temperature switcher.

4. It is possible that the time for the compressor to trip has not passed.

5. It is possible that the ambient temperature is not suitable for operation according to the specified mode.

6. Look for alarms.

The low room temperature:

1. Incorrect settings of heat pump.

2. Incorrect settings of separate automatic thermostats if use.

3. Closed radiators or floor heating thermostats.

4. Check filters.

5. Bleed hydraulic.

Ice on the grille and fan:

1. Something is blocking the air passage across the heat exchanger.

2. Switch on a defrosting mode manually.

3. Look for alarms.

4. Natural disaster.

5. Design problems.

5. CONTACT INFORMATION

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**BAUF USER MANUAL HEAT PUMP
AIR TO WATER SPLIT SAUER R32**