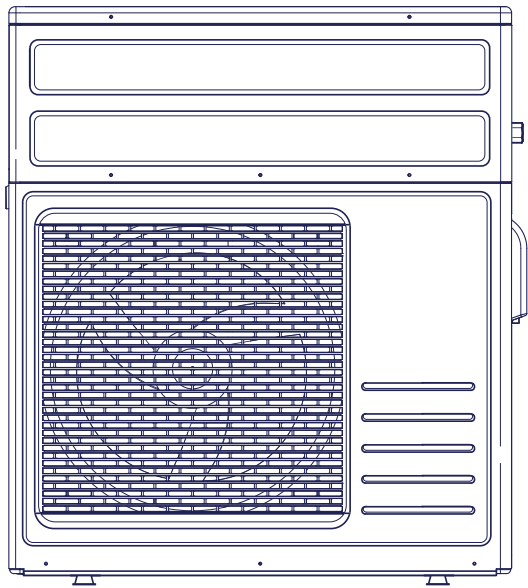


Kwikpump Water Heater

Installation and Warranty Manual



Model:
HP-008

Kwikpump Water Heater

7kW

Heating
Output

2

2 Year
Warranty

'4.1'

COP

www.kwikot.com



powered by **Haier**

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This product is to be installed and maintained by trained persons. Please do not change any settings without contacting the manufacturer first, failure to adhere may invalidate the warranty.

Safety Precautions (Please Read Before Use)

When the machine emits abnormal odors such as burning, it should be stopped and powered off immediately, and after-sales personnel should be contacted for inspection to avoid malfunctions or fires. Unauthorized personnel are strictly prohibited from disassembling or repairing the unit. Air source heat pump water heaters belong to Class I electrical appliances, so please pay attention to electrical safety when using them!



Warning: Important Instructions for Refrigerant Use

1. Please carefully read the instruction manual before installation and use.
2. Do not puncture or ignite.
3. This product should not be discarded or scrapped at will. If necessary, please contact Haier after-sales personnel to obtain the correct disposal method. When [the appliance is in a certain state], the refrigerant in the system needs to be recovered, and the refrigerant must be released when it is returned to the factory for after-sales service.
4. The appliance should be stored in a room without a continuous working ignition source (e.g., open flame, lit gas appliances, operating electric heaters).
5. When installing, repairing, cleaning or relocating the appliance, please contact Haier after-sales personnel. Before repairing the refrigeration system, the refrigerant in the system needs to be removed. Non-professionals are prohibited from operating.
6. Other methods should not be used to accelerate the defrosting process or clean frosted components, except for those recommended by the manufacturer.



Warning:

1. It is prohibited to charge oxygen, acetylene, or other flammable and toxic gases for leak detection or airtightness tests, as these gases are extremely dangerous and may cause explosions. It is recommended to use oxygen-free nitrogen for such tests.
2. Do not touch or adjust the safety devices inside the unit. Touching or adjusting these devices may lead to serious accidents.
3. It is prohibited to open the maintenance cover of the unit without cutting off the power supply of the main circuit.



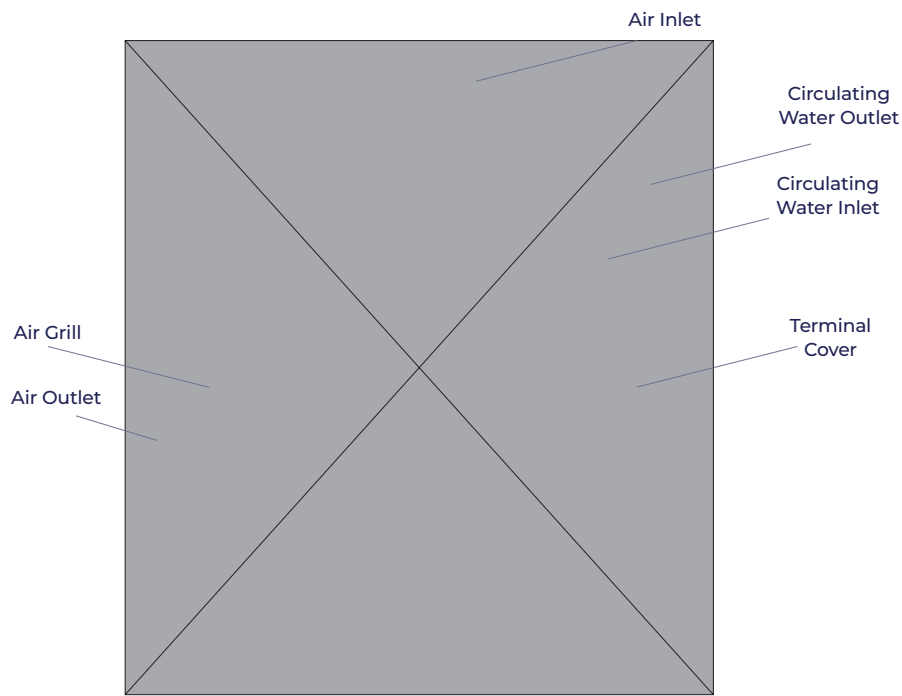
4. It is prohibited to install the unit in an environment with high oil mist, flammable gas, salt spray, or harmful gas (such as sulfur vapor).
5. It is prohibited to use refrigerants or refrigeration oils of incorrect types and models, otherwise it may lead to accidents such as fires or explosions.
6. Do not touch the high-temperature parts of the compressor and refrigerant lines, otherwise, it may cause burns.
7. Do not connect power cords for other purposes in series to the unit to avoid causing a fire.
8. It is prohibited to directly power on after privately removing the terminals of the electric heating main control board, otherwise it may lead to serious electric shock accidents.
9. If a refrigerant leak occurs, please turn off the unit, extinguish all open flames in the vicinity, and immediately contact the local dealer or service provider.
10. Before performing wiring work or regular inspections, turn off the main power switch of the unit for more than 3 minutes, and ensure that the unit's fan has stopped rotating; do not close the switch to supply power until all wiring work is completed to prevent electric shock accidents.
11. The heat pump unit belongs to Class I electrical appliances and must ensure reliable grounding. The yellow-green double-colored wire of the unit is the grounding wire. Do not connect the grounding wire to the following places: water pipes, gas pipes, sewage pipes, or other places considered unreliable by professionals. Improper grounding may lead to electric shock.
12. Users must install an air switch and a residual current device (RCD) at the power supply end that can cut off the power of the entire system, and each RCD must be regularly and effectively tested (testing can be performed by pressing the test button on the RCD); after the electrical appliances are installed and before power is applied, a leakage test must be conducted. Test to ensure its safety; otherwise, in the event of an accident, it may lead to electric shock or fire.
13. Do not insert hands or any foreign objects into the air grille to avoid injury or damage to the unit.
14. The 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;



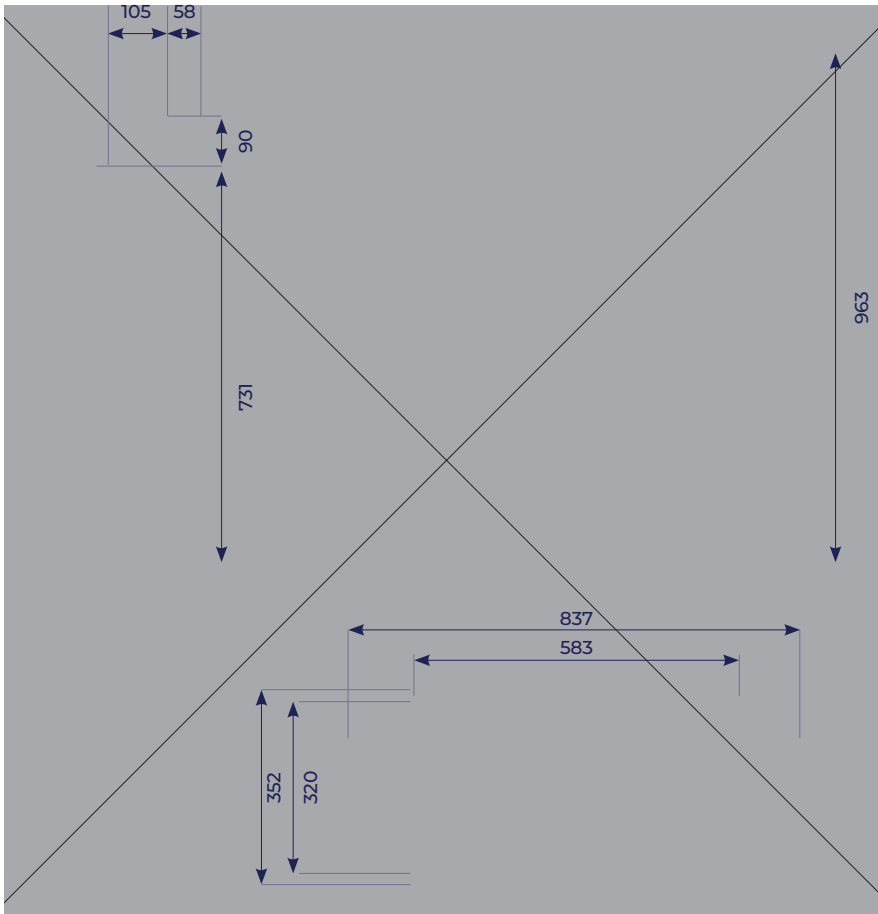
15. Children should be supervised to ensure they do not play with this appliance.
16. If the power supply cord is damaged, to avoid danger, it must be replaced by the manufacturer, its service agency, or a similar professional.
17. Preventive measures shall be taken to avoid excessive vibration or pulsation of the refrigeration piping.
18. Protective devices, pipes, and fittings shall be protected as much as possible to avoid the effects of adverse environments, such as the risk of water accumulation and freezing in overflow pipes, or the risk of accumulation of contaminants and debris.
19. Measures should be taken for the long-term expansion and contraction of pipelines during operation.
20. The design and installation of the refrigeration system piping should minimize the possibility of hydraulic shock damaging the system.
21. Solenoid valves shall be properly installed in the pipeline to avoid hydraulic shock, and liquid refrigerant shall not be blocked unless sufficient pressure relief measures are provided.
22. Steel pipes and components shall be protected by anti-rust coatings before coming into contact with any insulating materials to prevent corrosion.
23. The maximum altitude at which this product can be used is 3700m.
24. Fixed cables need to be protected with an insulation sheath with a temperature resistance exceeding 105°C.
25. This product is prohibited from being installed near flammable and explosive items or used in similar environments.
26. When personnel leave the site, please turn off the power.
27. When the product exhibits abnormal noise, abnormal odor, abnormal high temperature, or malfunctions, please immediately stop using it, turn off the switch, and disconnect the power source.
28. If a household appliance is charged with flammable refrigerant, in case of an abnormal situation, natural ventilation measures should be taken first before turning off the switch to avoid the accumulation of flammable refrigerant.
29. The total rated current value of household appliances connected to an extension cord power outlet shall not exceed the rated current value of the original fixed socket or circuit.
30. Users shall not change the setting values of low-voltage circuit breakers or residual current operated protective devices by themselves.
31. Do not replace the fuses of household appliances and power supplies with ordinary conductors or fuses exceeding the specified current capacity.

Product Information

Product Components



Unit Shape Diagram



Technical Data



Note: This parameter is only for reference. If it changes due to product improvement, please refer to the contract parameter.

MODEL: HP008

Nominal Heat Pump Heating Capacity	7000W
Nominal Hot Water Output	150L/h
Maximum Water Outlet Temperature	60°C
Rated Voltage	220-240V~
Rated Frequency	50Hz
Rated Power	1707W
Refrigerant Name and Injection Volume	R410A (1150g)
Power Supply	AC 230V~/50Hz
Noise	53dB(A)
Protection Class Against Electric Shock	IPX4
Maximum Operating Pressure of Exhaust Side	4.5MPa (Exhaust Side)
Maximum Operating Pressure of Suction Side	1.2MPa
Maximum Operating Pressure of Heat Exchanger	4.5MPa
Dimensions (Length × Width × Height)	837×294×935
Weight	68kg



Note: The heating capacity and performance coefficient of the unit are based on standard operating conditions: Outdoor dry/wet bulb temperatures of 20°C/15°C, initial water temperature of 15°C, and final water temperature of 55°C.

1. Implementation standard: GB/T 21362°C
2. Scope of use: Ambient temperature is -15°C - 45°C
3. If the parameters change due to product improvement, please refer to the parameters on the nameplate.

User Instructions

Safety Precautions

User Guidelines

1. Upon receiving the unit, please immediately inspect its exterior for damage, verify model consistency with purchased specifications, and confirm all accessories are complete.
2. To ensure correct installation, usage and future maintenance, please read this manual carefully first.
3. Connect the power only after a thorough inspection confirms that all components are properly installed.
4. During the initial startup of the unit, bleed the air from the pipework and heat exchanger. Otherwise, abnormal operation of the unit may occur.
5. After the unit is running normally, the regular cleaning and maintenance must be carried out to ensure the lifespan and reliable operation of the unit.
6. When the unit is not in use during winter, be sure to drain all water from the system pipeline network and the unit's casing tube heat exchanger to prevent the system from freezing and damage.
7. Due to the company's design improvements, content may be subject to changes without prior notice.

Safety Guidelines

- Before using this unit, please read this manual carefully and thoroughly, and operate correctly in accordance with the manual's guidance.
- Pay special attention to the meaning of the following two labels:



- It indicates that improper operation may cause casualties or serious harm.
- It indicates that improper operation may cause personal injury or property damage.

1. Please install it in a location that can withstand the operating weight of the unit. If the strength is insufficient, the unit may fall and cause personal injury or death.
2. Do not store or use flammable, explosive or toxic hazardous materials near the unit.
3. In case of failure (such as smell of burning, etc.), please immediately turn off the main power supply of the unit and contact the dealer. Do not put your finger or object into the air outlet.

4. Do not use plugging in or unplugging the power cord as a method to start or stop the unit.
5. Do not attempt modifications. If repairs or relocation of the unit is needed, please contact the dealer or professional installation personnel.
6. The design and installation of the project must be carried out by qualified professionals in accordance with the relevant laws, regulations and this manual. Improper installation may cause water leakage, electric shock, fire or other accidents.



Note:

1. Before starting up, please check whether the power supply used matches the requirements on the nameplate, and confirm whether the electrical wiring and water system pipeline connections are correct to prevent water leakage, electric shock, fire, or other accidents.
2. The heat pump unit is a Class I appliance and must be reliably grounded to avoid electric shock hazards.
3. After installation, an electric leakage test should be conducted to ensure safety.
4. Once the unit is started, it must run for at least 6 minutes before shutdown; otherwise, the lifespan of the unit may be affected. Do not manually start and stop the unit frequently.
5. Do not operate the unit with wet hands, and do not allow children to operate the unit. Before cleaning the unit, turn off the main power supply of the unit.
6. Do not expose the unit directly to environments prone to corrosion, such as water or humidity. In areas prone to corrosive air conditions the unit should be treated with Bluchem or similar
7. In winter, when the outdoor temperature is relatively low, do not cut off the power supply after shutdown to ensure the normal operation of the unit's anti-freeze function.
8. In case of a power outage and if the unit will not be used for an extended period, drain all water from the unit, water tank and pipelines.
9. Water quality control: Although the water circuit of this product operates in a closed environment, attention is required when initially filling the water system. When using tap water, check whether the water quality meets the requirements in the next table. If it does not, treat the incoming water to meet the requirements. Using well water or river water may produce more scale, sand and other sediments. Professional water treatment must be applied before use to ensure the water quality meets the requirements in the next table.

10. Water quality standards applicable to the unit:

PH	Total Hardness	Conductivity	Sulfide Ion	Chloride Ion	Ammonium Ion
6.5~8.0	<50ppm	<200μs/cm (25°C)	None	<50ppm	None
Sulfate ion	Silicon	Iron content	Sodium ion	Calcium ion	
<50ppm	<30ppm	<0.3ppm	No requirement	<50ppm	

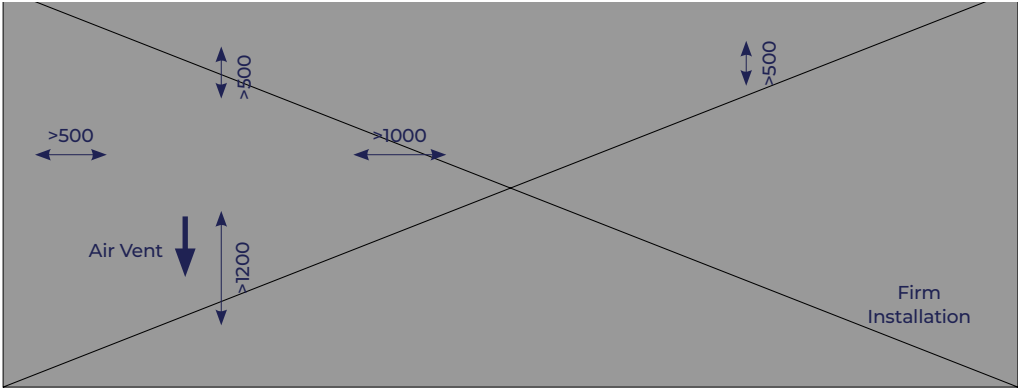
Installation Instructions

Packing List

Component Name	Main Unit	Instruction Manual	Drain Bend	Anti-vibration Rubber Pads
Quantity	1	1	1	4

Wired Controller Bracket	Wired Controller	Signal Line
1	1	1

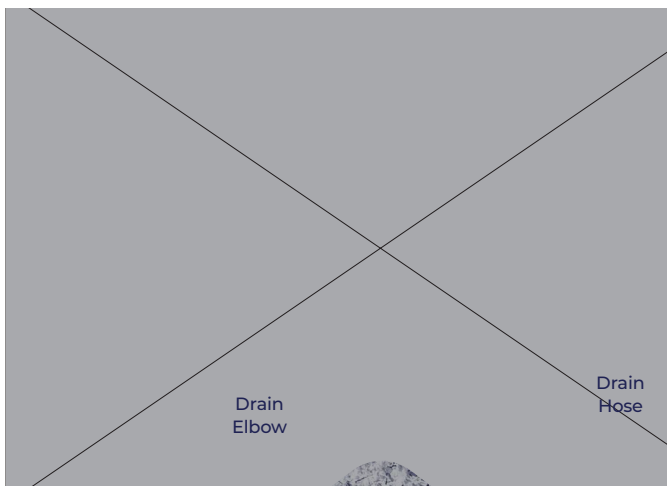
Unit Installation and Precautions



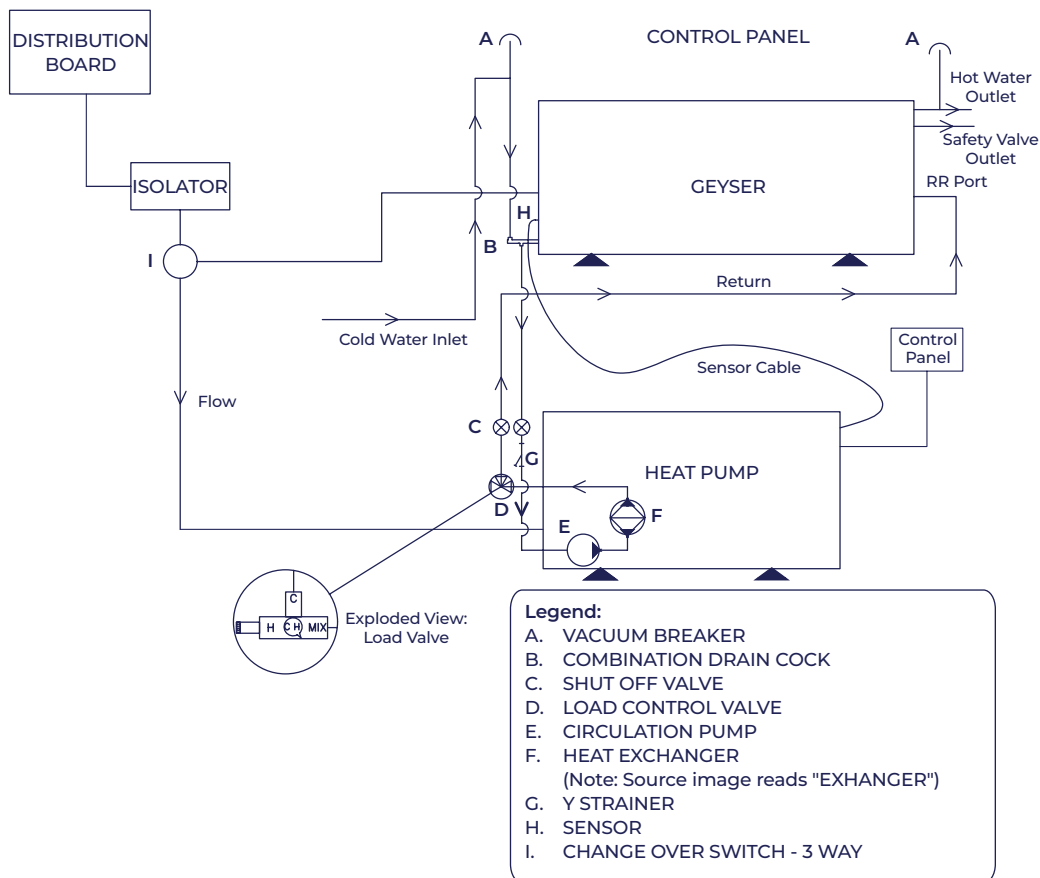
Note: The appearance of the water heater is for reference only. The unit should not be installed in a closed space and should be kept ventilated.

Outdoor Unit Installation and Fixation

1. Fix the outdoor unit mounting bracket to the wall with expansion bolts.
2. Tighten the outdoor unit on the outdoor unit mounting bracket with bolts (M10) and nuts, and keep it horizontal.
3. If it is installed on the wall or roof, the bracket should be firmly fixed to withstand strong winds.
4. In order to reduce machine vibration, please be sure to install a shock absorbing rubber pad.
5. If a drain elbow is used, install it as shown in the figure below. Do not use a drain elbow in colder places (where the temperatures remain below 0°C).



Unit Installation Schematic Diagram



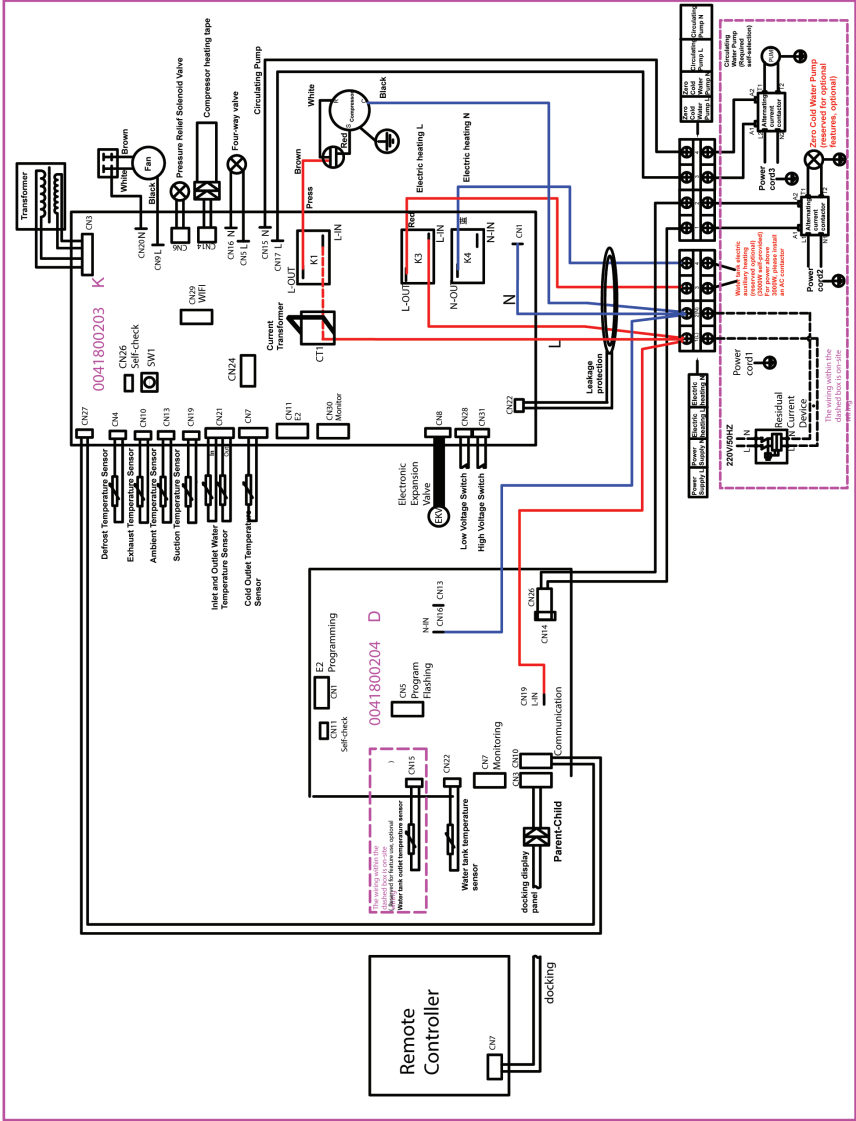
Note:

1. The outdoor unit must not be installed at a higher horizontal level than the water tank.
2. To ensure the normal operation and user experience, the horizontal installation distance between the outdoor unit and the water tank must not exceed 5 meters. Unit Installation Schematic Diagram Water Tank Pipeline Installation
3. The circulation pipe and hot water outlet pipe should be insulated.
4. Water pump selection requirements: Rated flow rate $\geq 1.2 \text{ m}^3/\text{h}$, rated head $\geq 6 \text{ m}$.
5. The inlet pressure of tap water should be between 0.1 and 0.8 MPa. If it is lower than 0.1 MPa, please install a booster pump at the water inlet; if it is higher than 0.8 MPa, please install a pressure reducing valve at the water inlet.

Wired Controller Installation

Wall-mounted installation: First, insert a flat-head screwdriver into the slot at the bottom of the wired controller to separate the display panel wired controller base from the controller box. Then, secure the controller box base to the wall through the screw hole 1 and screw hole 2 on the base of the wired controller box. Finally, snap the controller box onto the controller box base according to the corresponding fitting method.

Water Heater Wiring Diagram



Preparations Before Electrical Wiring

1. Ensure that the power supply voltage is within the range of $\pm 10\%$ of the unit's rated voltage, which can be found on the unit's nameplate or electronic manual. The power supply must use a dedicated circuit, and the power supply line must be equipped with an air switch of sufficient capacity. The air switch should have both magnetic and thermal tripping functions to ensure protection against both short circuits and overloads;
2. Ensure that the power supply capacity is sufficient. Otherwise, during startup, low voltage may cause the compressor to fail to start, and high voltage may cause the main board to burn out.
3. Ensure that the electrical components (main power switch, circuit breaker, wires, conduits, and terminals, etc.) used on-site have been appropriately selected based on the current data, and ensure that the components comply with national electrical standards;
4. The power cord must use copper wire and must comply with the requirements of IEC60245.
5. This unit has no power cord or plug. A disconnection device must be added to the fixed circuit, and it must be a full-pole disconnection with a contact disconnection distance of at least 3mm. A residual current device (RCD) must be installed in the fixed circuit at the power supply end, and each RCD must be regularly and effectively tested (testing can be performed by pressing the test button on the RCD). Power supply section: For AC220V equipment, L should be connected to the live wire, N should be connected to the neutral wire, and should be connected to the ground wire; for three-phase electrical machines, R, S, and T should be connected to the corresponding terminal block positions, N should be connected to the neutral wire, and should be connected to the ground wire. The positions must not be connected incorrectly, the wire sequence must be ensured to be correct, the connection must be reliable, and there should be no internal short circuit. Incorrect connection may lead to a fire. The power cord connection method is Y connection.
6. When this equipment needs to be externally connected to auxiliary electric heating or a water pump, a disconnecting device must be added to the fixed circuit, which can simultaneously disconnect this equipment and the auxiliary electric heating or water pump. When performing equipment inspection or maintenance, the main disconnecting device needs to be disconnected to avoid the risk of electric shock caused by equipment that has not been disconnected in the circuit.

7. The power cord must use copper wire and should use neoprene-sheathed flexible cable, with its specification being at least No. 57 wire as specified in IEC60245 for ordinary neoprene-sheathed flexible cable. The recommended wire diameter for copper power cords is shown in the following table, and the wire diameter can also be selected by referring to the corresponding model's electronic manual; if the power cord length is >15m or the power cord is made of other materials, the cross-sectional area of the power cord should be appropriately increased to avoid malfunctions caused by overloading; the specific wiring method can be found in the accompanying wiring diagram.



Usage Introduction

Control Panel



	Clock, Timer Status Setting, Timer Period Indicator Icon: Displays Beijing time, timer status, and timer period start time.
	Temperature Display Icon: Display the set target temperature and real-time temperature of the water tank alternately.
	Heat Pump Operation Indicator: Display whether the heat pump water heater is working.
	Dual-source Rapid Heating Indicator: Display whether the dual-source rapid heating is operating.
	Defrost Operation Indicator: The icon lights up in the defrost mode.
	Zero-cold Water Operation Indicator: Display whether the zero-cold water function is operational.
	Timer Function On Indicator: Display whether the timer function is operational. Remaining Hot Water Indicator: Display the remaining amount of hot water.
	Anti-freeze operation indicator: Display whether the anti-freeze operation is enabled.
	Parameter Sequence Number Icon: Display the parameter sequence number when querying/setting parameters.

Usage Instructions

1. Power On/Off Button

Power on/off button. After shutdown, the clock and tank water temperature will be displayed. Upon startup, the operation mode icon, working status, clock, and tank water temperature will be shown. When the power is effectively on, press the "On/Off" button. When the unit is in the shutdown state and the 3-minute shutdown interval is met, the unit will start up. Otherwise, it will shut down. When the unit is powered on, the circulating heating temperature can be adjusted. To adjust the water temperature, simply press the "+/-" key directly on the main interface. If no button is pressed for 6 seconds, the set temperature will stop flashing and return to the main interface. The circulating water temperature can be adjusted within the range of 20 - 60°C (50°C by default).

2. Timer Button

Timer button. Set the timer on/off function of the unit. By default, if no timer is set, when the unit starts up, it will continue to run until it is manually turned off. Click the timer function to set the timer power on/off function twice a day.

3. Setting button.

Press this button to enter the function of setting the unit's function parameters or confirming the operating parameter.

4. Mode button.

Two modes: **1** Energy-saving Heating **2** Quick Heat Mode

5. Temperature Button

Button for setting the temperature. When setting the time and temperature, press and hold the button for continuous adjustment.

6. Operating Functions

- 1. Power On:** When the manual device is powered on for the first time, the buzzer will emit a "beep" sound; all patterns on the display screen will show for 3 seconds, after which the system enters the shutdown state (memory shutdown) — At this time, the water temperature of the water tank and the clock will be displayed.
- 2. Power On/Off:** In the shutdown state, press the "On/Off" button and the unit will start up. In the power-on state, press the "On/Off" button and the unit will stop. And, the "❏" startup icon of the heat pump is displayed with the line below it illuminated. When the compressor is running, the middle-upper bright line on the display panel animates, showing operational mode icons, settings and tank temperature (The set temperature and the actual tank water temperature are displayed alternately — The actual temperature for 5 seconds, followed by the

set temperature for 1 second. The word "Settings" must be displayed next to the set temperature, and "Actual" next to the actual tank water temperature. The clock is also displayed. When functions such as zero cold water are running, their corresponding status icons are shown).

3. **Unit Temperature Setting:** When the unit is on, the display panel is on the main interface. Press the "+" or "-" button to enter the recirculating heating temperature setting interface. Set the temperature through the "+" or "-" buttons; a long press allows for continuous adjustment. If no button is pressed for 6 seconds, the system will exit and return to the main interface. The recirculating heating temperature can be set within a range of 20°C to 60°C, with a default value of 50°C.

4. Timer On/Off Setting:

- **Setting the Timer Period 01:** While the unit is on, press the "Timer" button to illuminate its icon. The period indicator "01" will flash next to the timer period. Press the "Setting" button again to confirm the selection of timer period 1. At this point, the timer symbol "ST" will appear. And, press the "Setting" button once more, and the hour value on the screen will flash. Then, press the "+" or "-" buttons to adjust the hour value. Before the hour value stops flashing, press the "Setting" button to adjust the scheduled minutes using the same method. After confirming the minutes, press the "Setting" button, and the timer symbol will be displayed, and the hour value will flash. Set the scheduled OFF time following the same procedure, and then exit to the main interface. After the timer is activated, the timer icon will be displayed along with the timer period number. The scheduled ON time, scheduled OFF time, and the current clock are then displayed alternately, with each item lasting for 6 seconds.
- **Setting Timer Period 02:** When the unit is on, and after the Timer Period 1 setup is complete, press the "Timer" button. The indicator "02" will appear and flash next to the timer period. For Timer Period 2, press the "Setting" button to confirm its selection. At this point, the "Start" indicator will flash, and press the "+" or "-" buttons to toggle between the "Start" and "End" settings. The setting method is the same as described above. After the second timer period is set, the ON/OFF time for both Period 1 and 2, as well as the current clock, are displayed alternately, with each item shown for 6 seconds.
- **Timer Setting:** Press the "Timer" button and check through the "+" or "-" buttons. If two timer periods are set, pressing the "+" or "-" buttons allows you to switch between Timer 1 and Timer. Press any button other than "Timer", "+" or "-" to exit.

- **Timer Cancellation:** Press and hold the "Timer" button for 6 seconds to cancel all scheduled timer periods. The next time the timer is entered, the system will restart the setup process but must retain the previously set "Start" and "End" times for the first timer period. When entering next time, start the settings anew, and remember the first "timer" time set last time. Note: If the start and end times are the same, there is no scheduled setting for that day. The timer function works effectively in the power-on/standby mode, but does not operate when the device is in the power-off state.
- **Mode Switching (Two modes):** 1 ECO Mode 2 Fast Heating Mode. When the unit is on, it defaults to ECO heating mode. In this mode, only the heat pump is activated for heating. Press the "Mode" button to switch to the Fast Heating Mode. In this mode, both the heat pump and the electric auxiliary heater are activated simultaneously, and the fast heating icon will be illuminated. Note: This function is only effective if the attached water tank is equipped with an electric heating tube.

7. Usage Function

1. Pump Cleaning Operation:

While the unit is off, after the wired controller is on the main interface, press and hold the "Setting" button for 6 seconds to enter the function review interface. Then, press the "+" or "-" button to select the "Fu06" circulating cleaning function, and press the "Setting" button to enter the circulating cleaning setting interface. The "00" in the main display area will begin to flash.

Press the "+" or "-" button to change "00" to "01", then press the "Setting" button to confirm and return to the main interface. The circulating cleaning function will then be activated. If the water system has been drained or descaling is completed, the circulating cleaning function needs to be manually turned off, and press the "On/Off" button to exit the function. Otherwise, the circulating cleaning function will automatically terminate after 30 minutes.

2. Fault Codes and Parameter Inquiry.

This function is generally reserved for service personnel only. When a fault occurs while the unit is on, the fault code will be displayed directly on the main display, and the buzzer will sound an alarm. The buzzer will stop after emitting three beeps; Historical Fault Query: When the unit is off, press and hold the "+" and "-" buttons simultaneously for 6 seconds. The buzzer will emit a short beep, indicating entry into the historical fault query function. If no faults have occurred, "E0" is displayed in the water temperature icon area. If a historical fault occurs, the corresponding fault code is displayed in the water temperature icon area. If faults have occurred, they are displayed starting from the most recent one.

The fault sequence number "Er01" to "Er10" is shown on the upper middle part of the screen. Press the "+" or "-" button to query the faults in sequence. A maximum of 10 historical faults can be queried. The system will exit the fault query function if no operation is performed within 60 seconds after the query is completed, or if any button other than "+" or "-" is pressed. After entering the fault query function, continue to press and hold the "+" and "-" buttons simultaneously for 6 seconds to clear all historical fault codes.

3. Operating Parameter Query.

When the unit is on, the wired controller is on the main interface. Press and hold the "Setting" button for 6 seconds. The buzzer will emit a short "beep", indicating entry into the parameter query function. Select the parameters to be queried by pressing the "+" or "-" button. A total of 24 parameter codes (d01 to d24) are displayed on the upper middle part of the screen, while the corresponding parameter value is displayed in the clock area. The system will automatically exit the function after no operation is performed within 60 seconds.

4. Setting the Function Menu.

When the unit is off, the wired controller is on the main interface. Press and hold the "Setting" button for 6 seconds, the buzzer will emit a short "beep", indicating entry into the function parameter settings interface. The function settings listed in the table below will be displayed on the upper middle part of the screen. Switch to the corresponding parameters by pressing the "+" and "-" buttons. If you need to modify the parameters currently shown on the display, press the "Setting" button again to enter the setting interface for that function parameter. At this point, the parameter value will flash. Adjust the value by pressing the "+" or "-" button. Press the "Setting" button to save the setting upon completion. If any button other than "+", "-", or "Set" is pressed at this time, the system will return to the previous menu level by level, and the corresponding parameter settings will not be retained. If no button is pressed within 60 seconds, the system will exit the main interface automatically.

8. Unit Operation Parameter Comparison Tables

Query Code	Operational Parameter
1	Communication protocol version number
2	Water outlet temperature sensor temperature
3	Water inlet temperature sensor temperature
4	Outdoor ambient temperature sensor temperature
5	Suction temperature sensor temperature
6	Defrost temperature sensor temperature
7	Discharge temperature sensor temperature
8	Water tank temperature sensor temperature
14	Electronic expansion valve opening
16	Water return temperature sensor temperature
17	User set temperature
23	Condenser outlet temperature sensor temperature
24	Compressor current value

Display Serial Number	Parameter Name	Parameter Setting
0	Clock settings	Set the current time
3	Power on/off memory function setting	1 (Default function on) 0 (Function off)
6	Circulating cleaning function setting	1 (Default function on) 0 (Function off)
10	Anti-freeze temperature setting	2-10 °C (5 °C by default)
12	Return water temperature setting	Return water temperature setting 20-50 °C (35 °C by default)
13	Return pump interval time setting	Return pump interval time setting 3-60 min (12 min by default)
14	Return pump duration time	Return pump duration setting 3-30 min (6 min by default)
15	Return water function setting	1 (Default function on) 0 (Function off)

9. Clock Setting

When the unit is off, after the wired controller is on the main interface, press and hold the "Setting" button for 6 seconds to enter the parameter setting interface. Select the "Fu00" and press the "Setting" button again to enter the clock setting interface. At this point, the "Hours" will begin flashing. Press the "+" or "-" button to adjust the value. After setting the hours, press the "Setting" button to switch to the "Minutes" setting. Press the "+" or "-" button to set the parameters. Finally, press the "Setting" button to save the settings and return to the main interface. If no button is pressed within 60 seconds, the system will automatically exit the setting interface.

10. Power On/Off Memory Function Setting

When the unit is off, after the wired controller is on the main interface, press and hold the "Setting" button for 6 seconds to enter the function viewing interface. Switch to the "Fu03" On/Off memory function by pressing the "+" or "-" button, and press the "Setting" button to enter its setting interface. The "01" in the main display area will begin flashing. Set the "01" to "00" by pressing the "+" or "-" button. Then, press the "Setting" button to confirm and return to the main interface. The Power On/Off Memory function is turned off.

11. Circulating Cleaning Function Setting

When the unit is off, after the wired controller is on the main interface, press and hold the "Setting" button for 6 seconds to enter the function viewing interface. Select the "Fu06" circulating cleaning function setting by pressing the "+" or "-" button, and press the "Setting" button to enter the circulating cleaning setting interface. The "00" in the main display area will begin flashing. Set the "00" to "01" by pressing the "+" or "-" button. Then, press the "Setting" button to confirm and return to the main interface. The circulating cleaning function is activated. If the circulating cleaning function needs to be manually turned off after the water system is drained or descaling is completed, press the "On/Off" button to exit the function; otherwise, the circulating cleaning function will automatically exit after 30 minutes.

12. Anti-freeze Temperature Setting

When the unit is off, after the wired controller is on the main interface, press and hold the "Setting" button for 6 seconds to enter the function viewing interface. Select the "Fu10" anti-freeze temperature setting by pressing the "+" or "-" button, and press the "Setting" button to enter the setting interface of this function. The "05" in the main display area will begin flashing. Set the "05" to "desired value" by pressing the "+" or

"-" button. Then press the "Setting" button to save and return to the main interface. When the water circuit temperature falls below the set "desired value", the anti-freeze function will be activated.

13. Engineering Parameter Setting

When the unit is off, after the wired controller is on the main interface, press and hold both the "Setting" and "Mode" buttons for 6 seconds to enter the engineering parameter viewing interface. The engineering parameter items available on the top-left corner of the wired controller are listed in the table below. Press the "+" or "-" button to switch to the corresponding engineering parameter items.

Display Serial Number	Parameter Name	Parameter Setting
01	Manual defrosting	1 (Default function on) 0 (Function off)
04	Restore the factory settings	1 (Default function on) 0 (Function off)

16. Manual Defrosting Setting

When the unit is off, after the wired controller is on the main interface, press and hold both the "Setting" and "Mode" buttons for 6 seconds to enter the engineering parameter viewing interface. Select the "Pr01" manual defrosting function setting by pressing the "+" or "-" button, and press the "Setting" button to enter the setting interface of this function. The "00" in the main display area will begin flashing. Set the "00" to "01" by pressing the "+" or "-" button. Then press the "Setting" button to save and return to the main interface. The manual defrosting function has been activated. The compressor will start in 3 minutes, and the unit will enter the defrost mode.

17. Wired Controller Factory Reset Setting

When the unit is off, after the wired controller is on the main interface, press and hold both the "Setting" and "Mode" buttons for 6 seconds to enter the engineering parameter viewing interface. Select the "Pr04" wired controller factory reset setting by pressing the "+" or "-" button, and press the "Setting" button to enter the setting interface of this function. The "00" in the main display area will begin flashing. Set the "00" to "01" by pressing the "+" or "-" button. Then press the "Setting" button to save and return to the main interface. All set parameters of the unit have been restored to the factory default value.

Troubleshooting and Maintenance Operations

Fault Analysis Table

Common Faults	Causes	Solution
Compressor fails to start	A. The compressor motor is burned out	Check the compressor and replace it if faulty.
	B. Compressor stuck (damaged or has a lodged part)	Replace the compressor
	C. Open circuit part	Check the fuse and all connection points to find out the reason of open circuit.
	D. Blown fuse part	Replace the fuse
	E. Low voltage part	Check the power supply
	F. Power supply issues part	Check if the phase sequence is reversed
Excessive fan noise	A. The bolts for securing the fan have become loose	Re-tighten the fan mounting bolts.
	B. Blade colliding with fins or other obstacles	Identify the cause and make adjustments
	C. Unstable fan operation part	Immediately power off and check the fan circuit
	D. Fan running in reverse part	Replace the compressor
Excessive fan noise	A. Liquid refrigerant entered the compressor, causing liquid slugging part	If liquid slugging occurs, check the expansion valve for failure and the temperature sensor for looseness; repair as needed.
	B. The internal components of the compressor are damaged	Replace the compressor
	C. Insufficient refrigerant oil part)	Add an appropriate amount of refrigerant oil

Fault Analysis Table (Continued)

Common Faults	Causes	Solution
The water pump fails to run or runs abnormally	A. Power supply fault or wiring fault	Find out the cause and repair
	B. Relay fault	Replace the relay
	C. Air in water pipes	Purge air completely
	D. Poor pump startup after system drainage	Manually rotate the pump shaft

Cleaning and Maintenance

Daily Operations and Maintenance

1. All safety protection devices in the unit are pre-set before leaving the factory. Users are strictly prohibited from adjusting or removing them, as it may cause damage to the unit.
2. When starting the unit for the first time or prior to starting the unit after a Daily Operations and Maintenance prolonged power-off shutdown (more than one day), the power supply should be connected in advance to ensure a preheating period of at least 12 hours. This prevents damage caused by the forced startup of compressor.
3. Do not place any objects on the unit or its accessories, and ensure the surrounding area is kept dry, clean and well-ventilated. Heavy dust accumulation on the evaporator fins should be cleaned promptly to avoid impairing the unit performance or causing a protective shutdown.
4. Clean the filters in the water system regularly to prevent blockages that could cause unit protection or damage, and frequently check if the makeup device of the water system is functioning properly.
5. When the ambient temperature drops below freezing in winter, it is strictly prohibited to cut off the power supply, as this will result in the failure of the unit's anti-freeze protection.
6. When the unit is out of service for an extended period, all water in the unit, piping, and storage tank must be drained to prevent freeze damage.
7. Do not manually and frequently start and stop the unit, and do not arbitrarily close the manual regulating valve of the water system while the unit is running.

8. Regularly inspect the operational status of all unit components and check for oil stains at the pipeline connections and service valves to ensure the unit is free of refrigerant leaks.
9. If a malfunction occurs that users cannot resolve, please contact our authorized local service center or Haier customer service for timely repair assistance.

Evaporator Cleaning

The unit uses an air-cooled finned heat exchanger and is typically used outdoors. After a period of operation, the fins will inevitably become clogged with dust and debris, which impairs its heat exchange efficiency, reduces heating performance, and increases energy consumption. Therefore, under normal conditions, the finned heat exchanger should be cleaned after 6-12 months of operation. The cleaning period should be shortened if the unit is in a heavily polluted environment.

Cleaning Methods:

1. Disconnect the power supply to the unit.
2. Repeatedly flush the fins using high-pressure air against the direction of airflow through the heat exchanger. The flushing direction must be perpendicular to the fins to prevent them from being bent over.
3. High-pressure water can also be used. When doing so, carefully control the water pressure, take measures to prevent the fins from bending, and protect the components well. If oily substances are adhering to the fins, rinse them with water containing a neutral detergent.
4. A vacuum cleaner can also be used in conjunction with a nylon brush to remove dust and debris from the surface of the heat exchanger.
5. The cleaning is considered complete when the fins' original colour is visible or when the water running off the fins is clear.

To validate the warranty (Please register online)

Kwikot (Haier) SA Pty Ltd warrants that its Kwikpump Water Heaters are free from manufacturing defects. This is the only warranty given by Kwikot in respect of its Kwikpump Water Heaters

Kwikot gives no other warranty or representations, unless where explicitly implied in writing by authorized Kwikot personnel. No amendments or additions to the warranty shall be binding on Kwikot. Kwikot makes no warranty or representation in respect of the installation of heat pump water heaters. Claims in respect of the heat pump water heaters must be referred to the applicable installer, who shall be solely liable under any installation warranties given.

The installer is liable to advise the end user whether the respective heat pump water heater purchased is fit for purpose in the environment it is intended to be used and the correct size water heater is to be recommended for the end users required usage. The two year warranty covers the heat pump water heater only and does not cover any other part or parts used in the installation, which may become damaged as a consequence of the failure or defect of the heat pump water heater. A weather cover is recommended to be installed in cases where the heat pump water heater is expected to be exposed to the elements.

Kwikot will repair, or at its own discretion, replace the faulty part with a new or re-manufactured one. The two year warranty period will be calculated from the date of installation of the original heat pump water heater, provided that the Certificate of Conformity (COC) and any additional documentation of proof of the installation is furnished.

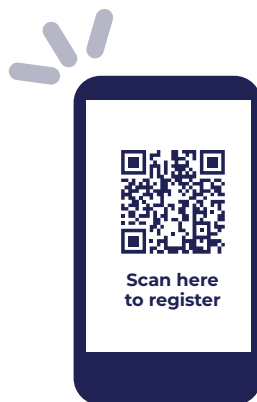
If Kwikot carries out repairs or replacements, the warranty will not start afresh or be extended, irrespective of how many repairs or replacements are carried out. Components removed during warranty repairs, will remain the property of Kwikot.

Warranties are applicable only in South Africa, Namibia, Botswana, Swaziland and Lesotho and are subject to heat pump water heaters being used for water, which is of the quality equivalent to water supplied by authorities in Metropolitan areas in South Africa.

Damage due to freezing is not covered under warranty. Please see manual for more information on protecting the unit.

A warranty will only be honoured if:

- a. The applicable warranty is still in force/valid.
- b. The Kwikpump Water Heaters is installed, used and maintained in accordance with Kwikot specifications and instructions.
- c. Where applicable, all other products used in the installation must comply with SANS. Non-compliant SANS products will result in forfeiting the warranty.



Notes

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Support



Warranty and Service Support

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