

# Haier

## Heat pump Water Heater Operation and Installation Manual



Model

HP80M8-9

HP110M8-9

HP150M8-9



English

Please read this manual carefully prior to your use of this water heater.

The appearance of the water heater given in this manual is for reference only.

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Dear users of Haier,

Thank you for choosing Haier products.

Please read this manual carefully and follow the operation and safety instruction to ensure best installation and utilization of the product.



## Product safety statement:

**1. This appliance can be used by persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.**

2. Children shall be closely supervised to make sure they stay away from this product.

3. The method of installing safety valve please refer to Page 16.

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

5. The water heater is to be drained according to the instructions specified on page 27.

# Safety instructions (to be followed at any time)

## Interpretation of marks and symbols

Failure to respect these instructions may lead to serious malfunctions of the device and to risks for the user

|                                                                                  |                                                                                                                                                                          |
|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Instructions with this warning mark shall be strictly followed during operation. They relate to product and body safety of users.                                        |
|  | Information provided with this banning mark relates to activities that are definitely forbidden. Otherwise the machine may be damaged or users may risk personal danger. |

|                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <br>The water heater shall be installed in strict accordance with local wiring regulations, and equipped with power supply with a ground line. Please ensure an effective ground connection. | <br>Ground line and zero line of the power supply shall not be connected together. The ground line shall not be connected to pipeline conveying gas or water, lightning arresters or telephone lines. |
| <br>The water heater shall not be installed at places where water drainage is unavailable or impossible.                                                                                                                                                                       | <br>It is recommended that the water heater shall be installed inside.                                                                                                                                |
| <br>This water storage tank must be equipped with a safety valve. Its installation position shall not be changed. To guarantee safe operation, it shall not be blocked at any time.                                                                                          | <br>While bathing, children must be under guidance of an adult person.                                                                                                                              |

## Safety instructions (to be followed at any time)

|                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>The outlet water temperature of a water heater is typically higher than the temperature indicated on the display. Hot water shall not be pointed at the human body immediately after opening the hot water valve to avoid injury caused by hot water.</p> |  <p>Means for disconnection from the main supply having a contact separation in all poles that provide full disconnection under overvoltage category III conditions must be incorporated in the fixed wiring in accordance with the wiring rules.</p> |
|  <p>Install the water heater in strict accordance with the installation instruction specified on page 11-23.</p>                                                                                                                                              |  <p>If the power cord is damaged, it shall be replaced by qualified professionals to avoid hazards.</p>                                                                                                                                               |
|  <p>Hands or other items shall not be put into the air grille to avoid injury or damage to the water heater.</p>                                                                                                                                              |  <p>Maintenance shall be carried out according to the instructions specified on page 27.</p>                                                                                                                                                          |
|  <p>The water heater is intended to be permanently connected to the water mains and not connected by a hose-set.</p>                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                        |
|  <p>Do not install the water heater in the position where exposed to gas, vapours or dust.</p>                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                        |
|  <p>The inlet water pressure is between 0.1-0.5MPa. The inlet water temperature is suggested between 10-30°C.</p>                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                        |

## Safety instructions (to be followed at any time)

|                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>Rotate the safety valve handle once a month. The valve works well if there is water flowing out, otherwise check for blocking and replace the safety valve if necessary.</p>                                                                                 |  <p>Water heaters shall be equipped with a dedicated power line and residual current circuit breakers. The action current shall not exceed 30 mA;</p> |
|  <p>The water drain pipe shall be in connection with the atmosphere, it shall not be blocked; the water drain pipe connected to a safety valve shall be installed in a frostless environment with an continuous downwards inclination.</p>                       |                                                                                                                                                                                                                                        |
|  <p>The appliance contains fluorinated greenhouse gases.<br/>         Chemical name of the gas: R290/ 0,12kg<br/>         Fluorinated greenhouse gases are contained in hermetically sealed equipment.<br/>         Global Warming Potential(GWP) : 3</p>        |                                                                                                                                                                                                                                        |
|  <p>If needed, please refer to the wiring diagram on page 23.</p>                                                                                                                                                                                                |                                                                                                                                                                                                                                        |
|  <p>The method of connection about the appliance to the electrical supply refer to page 21.</p>                                                                                                                                                                  |                                                                                                                                                                                                                                        |
|  <p>In accordance with safety rules, a safety valve(8bar,G1/2F) must be installed on the tank. For France, we recommend hydraulic safety units fitted with a membrane with the NF marking. The rated pressure of the safety valve shall not exceed 0.8MPa.</p> |                                                                                                                                                                                                                                        |

## Instructions on transportation and storage

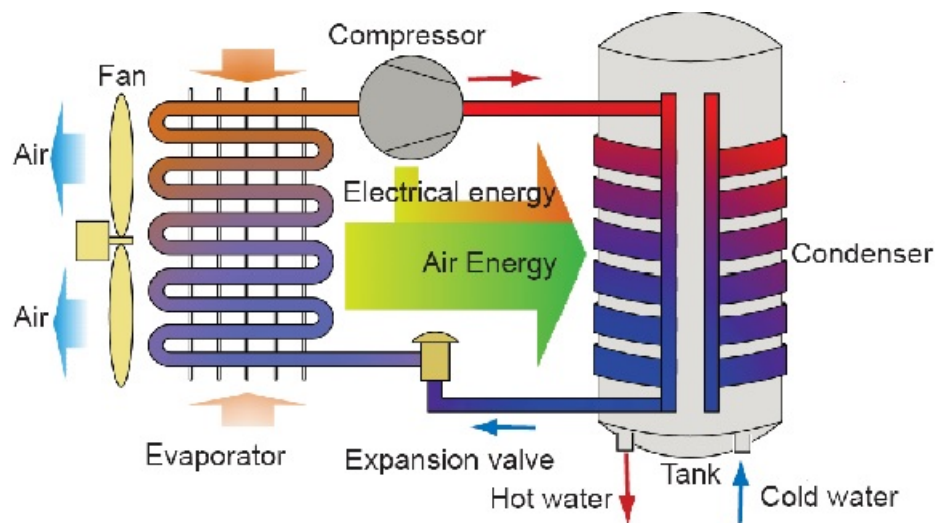
1. During transportation or storage, the heat pump water heater shall be packed in the undamaged package to avoid damage to appearance and performance of the product;
2. During transportation or storage, the heat pump water heater shall be in the upright position;
3. Under special conditions, this product may be laid down for a short time/distance as per indication on the side of the package case. The heat pump water heater, after being laid down for a certain time, shall be kept at upright position for more than 4 hours before starting up.



The machine shall be kept in the upright position at any time for the best performance !

## Functionings & principles

A low-pressure liquid refrigerant is vaporized in the heat pump's evaporator and passed into the compressor. As the pressure of the refrigerant increases, so does its temperature. The heated refrigerant runs through a condenser coil within the storage tank, transferring heat to the water stored there. As the refrigerant delivers its heat to the water, it cools and condenses, and then passes through an expansion valve where the pressure is reduced and the cycle starts over.

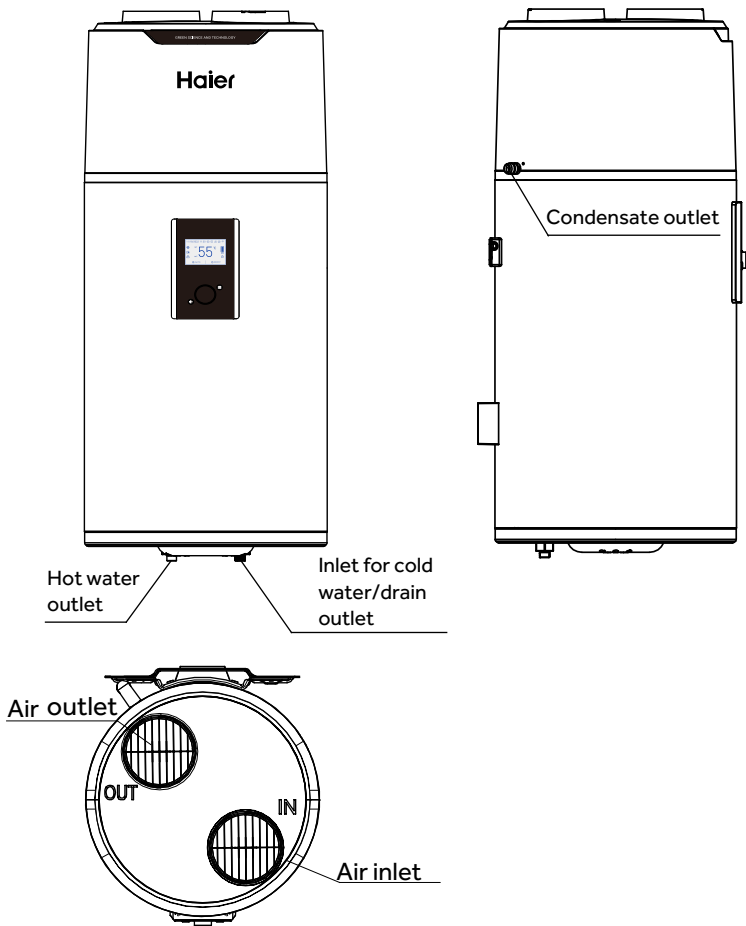


## Technical parameters

| Model                                                                                                                                                                                                                       | HP80M8-9           | HP110M8-9          | HP150M8-9          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|--------------------|
| Tank                                                                                                                                                                                                                        |                    |                    |                    |
| Tank volume                                                                                                                                                                                                                 | 82L                | 102L               | 149L               |
| Rated voltage/ frequency                                                                                                                                                                                                    | 220V~240V/50Hz     | 220V~240V/50Hz     | 220V~240V/50Hz     |
| Tank rated pressure                                                                                                                                                                                                         | 0.8MPa             | 0.8MPa             | 0.8MPa             |
| Corrosion protection                                                                                                                                                                                                        | Magnesium rod      | Magnesium rod      | Magnesium rod      |
| Water proof grade                                                                                                                                                                                                           | IPX4               | IPX4               | IPX4               |
| Performances                                                                                                                                                                                                                |                    |                    |                    |
| Type of extraction                                                                                                                                                                                                          | Ambient / Exterior | Ambient / Exterior | Ambient / Exterior |
| COP@7℃ / EN16147                                                                                                                                                                                                            | 3.02               | 2.93               | 3.10               |
| COP@14℃ / EN16147                                                                                                                                                                                                           | 3.38               | 3.31               | 3.52               |
| Tapping cycle                                                                                                                                                                                                               | M                  | M                  | L                  |
| Power input by electric backup                                                                                                                                                                                              | 1200W              | 1200W              | 1200W              |
| Rated power input by heat pump                                                                                                                                                                                              | 250W               | 250W               | 250W               |
| Maximum power input by heat pump                                                                                                                                                                                            | 370W               | 370W               | 370W               |
| Maximum power input                                                                                                                                                                                                         | 1570W              | 1570W              | 1570W              |
| Standby power input/ Pes                                                                                                                                                                                                    | 20W                | 20W                | 20W                |
| Max volume of usable hot water at 40℃ setting at 55℃                                                                                                                                                                        | 102.5L             | 132.8L             | 193.5L             |
| Heating up time (7℃)                                                                                                                                                                                                        | 4h58               | 6h35               | 8h12               |
| Heating up time (14℃)                                                                                                                                                                                                       | 4h09               | 5h23               | 7h23               |
| Default temperature setting                                                                                                                                                                                                 | 55℃                | 55℃                | 55℃                |
| Temperature setting range- with heater                                                                                                                                                                                      | 35℃-75℃            | 35℃-75℃            | 35℃-75℃            |
| Maximum length of air duct                                                                                                                                                                                                  | 5m                 | 5m                 | 5m                 |
| Diameter of air duct connection                                                                                                                                                                                             | 160mm              | 160mm              | 160mm              |
| Max working pressure of refrigerant                                                                                                                                                                                         | 0.8/2.8MPa         | 0.8/2.8MPa         | 0.8/2.8MPa         |
| Refrigerant type / weight                                                                                                                                                                                                   | R290 /0.12kg       | R290 /0.12kg       | R290 /0.12kg       |
| Sound power level                                                                                                                                                                                                           | 50dB(A)            | 50dB(A)            | 50dB(A)            |
| Ambient temperature for use of product                                                                                                                                                                                      | -7~45℃             | -7~45℃             | -7~45℃             |
| Operating temperature of heat pump                                                                                                                                                                                          | -7~45℃             | -7~45℃             | -7~45℃             |
| Dimension and connections                                                                                                                                                                                                   |                    |                    |                    |
| Water inlet and outlet connection                                                                                                                                                                                           | R 1/2"M            | R 1/2"M            | R 1/2"M            |
| Safety valve connection                                                                                                                                                                                                     | R 1/2"M            | R 1/2"M            | R 1/2"M            |
| Drain & Water inlet connection                                                                                                                                                                                              | R 1/2"M            | R 1/2"M            | R 1/2"M            |
| Product Dimensions                                                                                                                                                                                                          | 492*537*1170mm     | 492*537*1320 mm    | 492*537*1680 mm    |
| Packing dimension without pallet                                                                                                                                                                                            | 587*587*1247mm     | 587*587*1397 mm    | 587*587*1764 mm    |
| Net/Gross weight                                                                                                                                                                                                            | 51/59kg            | 55/63kg            | 67/89kg            |
| <p>The COP and noise level data was tested in Haier lab.</p> <p>The COP values obtained with external air temperature of 7℃ and 14℃, inlet water temperature of 10℃ and set temperature of 55℃ (according to EN 16147).</p> |                    |                    |                    |

# Description of parts and components

## Heat pump structure

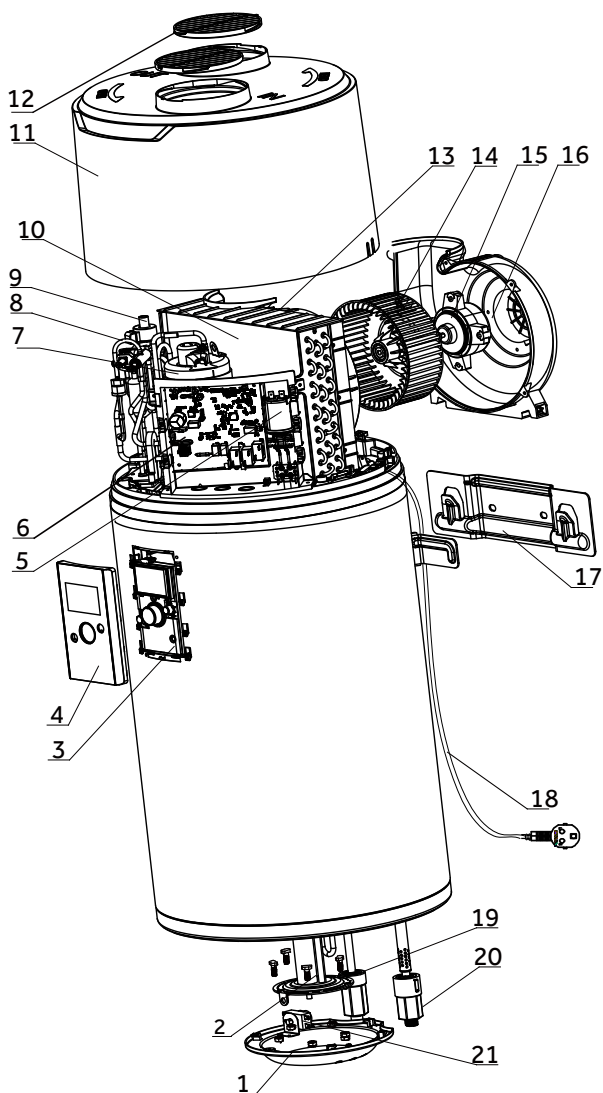


## Accessories

| Part name | Heat pump water heater | Safety valve | Drainage pipe for condensate water | Support plate | Instruction manual |
|-----------|------------------------|--------------|------------------------------------|---------------|--------------------|
| Quantity  | 1                      | 1            | 1                                  | 1             | 1                  |

# Description of parts and components

## Exploded view

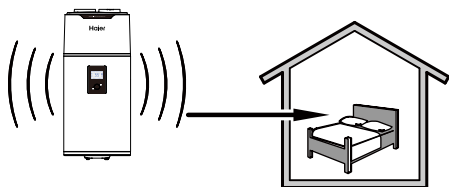


| S/N | Description                |
|-----|----------------------------|
| 1   | Electric cover             |
| 2   | Electric heater            |
| 3   | Display panel              |
| 4   | Cover for display          |
| 5   | Capacitor for compressor   |
| 6   | Controller panel           |
| 7   | Compressor                 |
| 8   | Four-way valve             |
| 9   | Electronic expansion valve |
| 10  | Evaporator                 |
| 11  | Top cover                  |
| 12  | Air grille                 |
| 13  | Air channel - front        |
| 14  | Fan                        |
| 15  | Motor                      |
| 16  | Air channel - back         |
| 17  | Support plate              |
| 18  | Power cord                 |
| 19  | Pipe for water outlet      |
| 20  | Pipe for water inlet       |
| 21  | Thermostat                 |

# Installation introduction

## Installation precaution

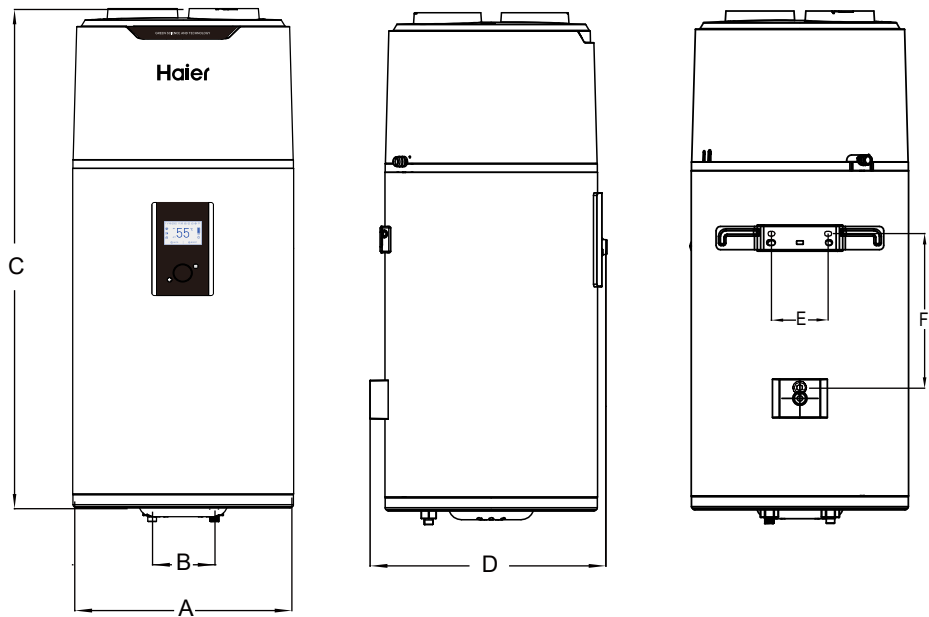
- Do not install the water heater in the position where exposed to gas, vapours or dust.
- Install the appliance on a flat, solid surface. The surface can support the machine weight and the condensate water can be drained freely.
- Noise due to operating and air flow do not bother neighbors.
- Make sure there is sufficient space left for installation and maintenance.
- There is no strong electromagnetic interference around that may affect control functions.
- There is no sulfur gas or mineral oil existing at the installation place, which may cause corrosion of the machine and the fittings.
- The water pipe for the water heater used at temperatures below 0°C shall not freeze.
- It shall not be set in rooms where a heating system is used so that heating supply to the room will not be affected.
- It shall not be set inside a totally-enclosed space.
- The air taken in must in no event be dusty.
- Install the appliance in a dry, frost-free room.
- Temperature of the ambient air or of the air taken in by the heat pump for optimum running: from 2 to 35°C.



Keep an adequate distance between the working heat pump and the resting room.

# Installation introduction

## Installation dimensions



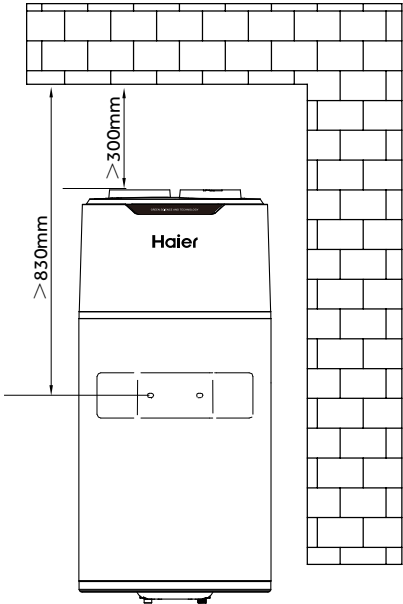
English

Unit:mm

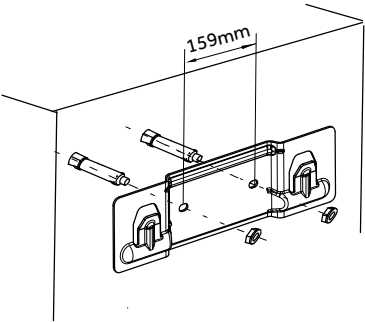
| Model     | A   | B   | C    | D   | E   | F   |
|-----------|-----|-----|------|-----|-----|-----|
| HP80M8-9  | 492 | 140 | 1170 | 537 | 159 | 360 |
| HP110M8-9 | 492 | 140 | 1320 | 537 | 159 | 510 |

# Installation introduction

## Installation dimensions

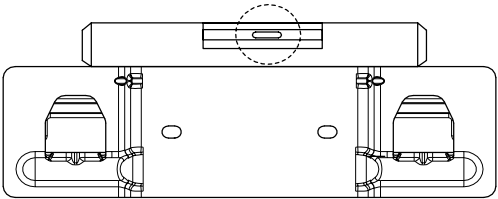
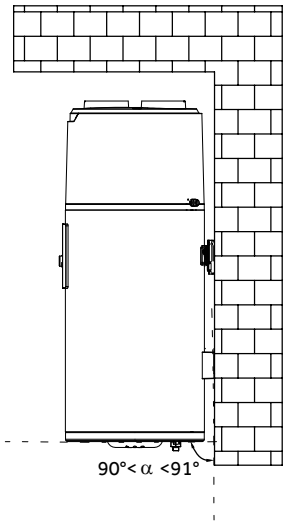


Note: These two expansion bolts can support 200kg weight at least . Please use the expansion bolts adapted to your wall material.



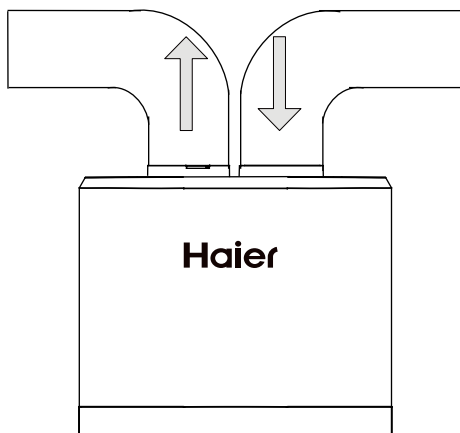
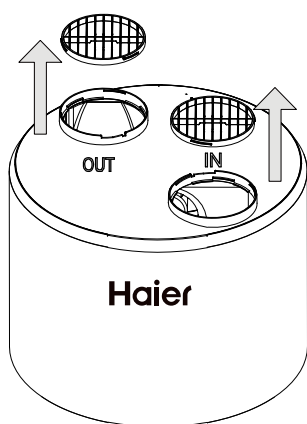
Installation angle refer to the following diagrams :

After the installation is completed, it is necessary to use a level ruler to check whether the support is maintained in a horizontal state.



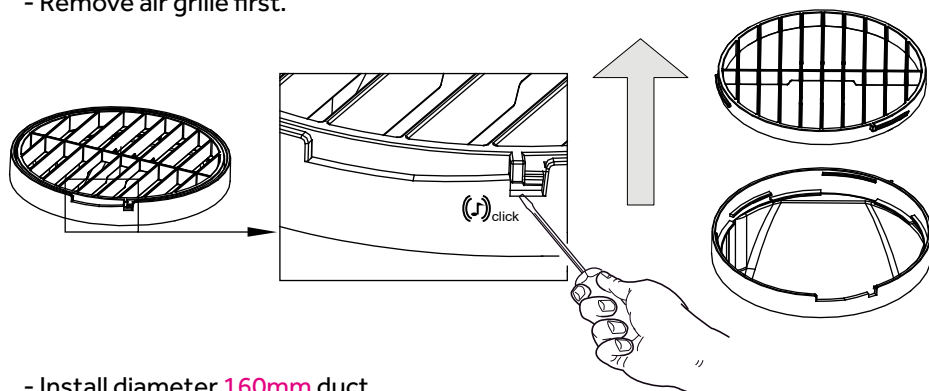
# Installation introduction

## Air connection



English

- Remove air grille first.

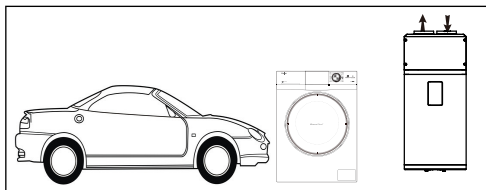


- Install diameter **160mm** duct.
- Pressure drops from duct must be lower than or equal to the static pressure of the fan.
- If the pressure drops out of range, the performance of the appliance will be impaired.

The sum of the maximum length of the air duct is 5m.

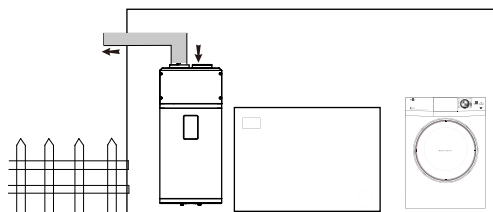
# Installation introduction

## Advised positions



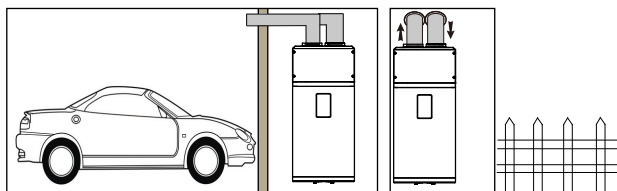
### Garage or laundry room (without ducts):

- Unheated room.
- Enables recovery of the free energy released by your vehicle's engine when switched off after use or by household appliances in operation.



### Laundry room (with one duct):

- Unheated room.
- Enables recovery of the free energy released by your vehicle's engine when switched off after use or by household appliances in operation.
- Referring installer menu (P26), adjust the fan speed.



### Habitable room or outside air (with two ducts):

- Can obtain free heat from the garage.
- If the outside air temperature is **too** low, connection to the outside air may lead to overconsumption of electricity.
- Referring installer menu (P26), adjust the fan speed.
- Avoid refreshing heated room.

# Installation introduction

## Installation caution



When making the connections, you should respect the standards and local directives.

- Before making the connection, rinse the water inlet pipes, in order not to introduce metal or other particles into the tank.
- Select copper pipes for pipeline connection.
- The inlet water pressure is between 0.1~0.5MPa. If lower than 0.1 MPa, a booster pump shall be added at the water inlet; if higher than 0.5 MPa, a pressure relief valve shall be added at the water inlet.
- The inlet water temperature is suggested between 10~30°C.
- Outdoor water pipeline and valves should be proper insulated.
- In accordance with safety rules, a safety valve(8bar,G1/2F) must be installed on the tank. For France, we recommend hydraulic safety units fitted with a membrane with the NF marking.  
Integrate the safety valve in the cold water circuit. Install the safety valve close to the tank in a place which is easy to access.  
No isolating devices should be located between the safety valve or unit and the tank.  
The rated pressure of the safety valve shall not exceed 0.8MPa.
- Never block the outlet of the safety valve or its drain line for any reason.
- The diameter of the safety unit and its connection must be at least equal to the diameter of the domestic cold water inlet.
- If the mains pressure exceeds 80% of safety valve, a pressure reducer must be installed upstream of the appliance.
- NOTE: Don't install and use the product outdoors.

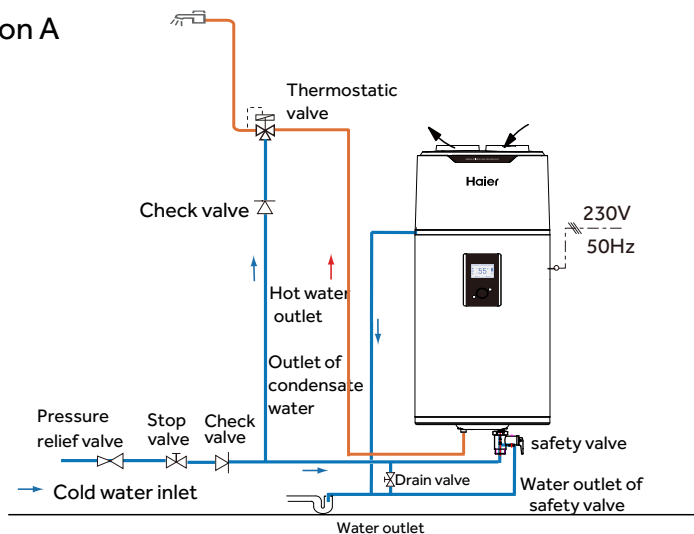


If the air inlet and outlet of the product are not installed with air ducts, the air inlet and outlet of the product shall be protected to prevent water inflow, and the waterproof measures shall reach IPX4 level.

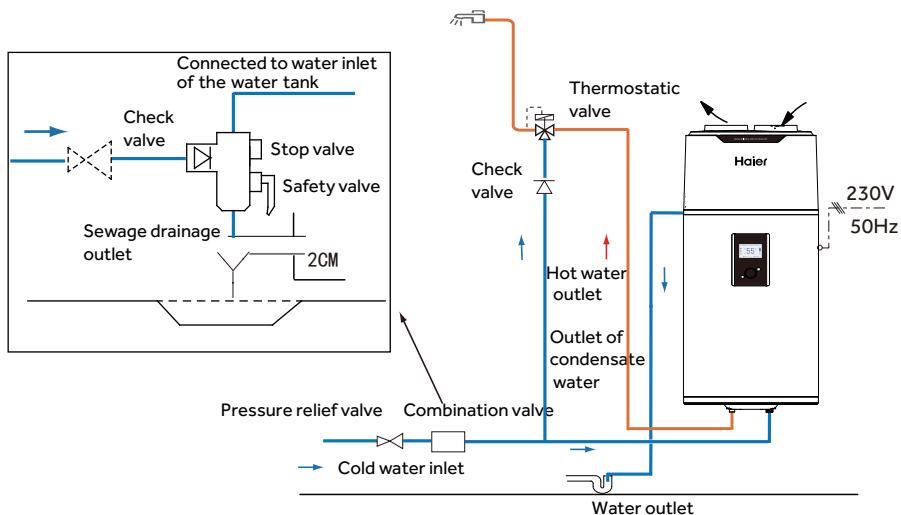
# Installation introduction

## Pipeline installation diagram

### Installation A



### Installation B(for France only)



#### Note:

- Pressure relief valve, thermostatic valve, stop valve, check valve, T&P valve and French combination valve are not included in the accessories, please select proper fittings in local market;
- Valves with NF/CE certification are recommended ;

# Installation introduction

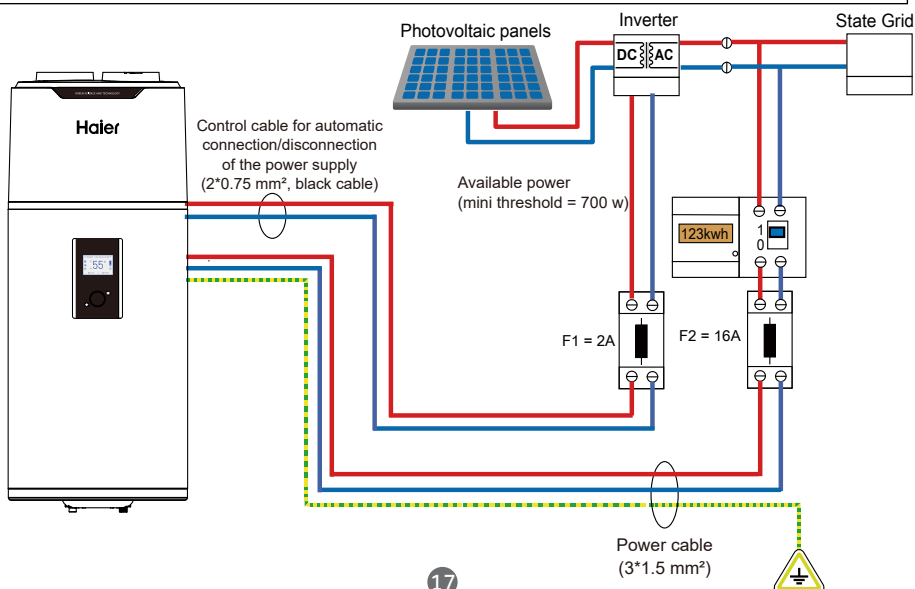
## Electrical connections precautions



### WARNING

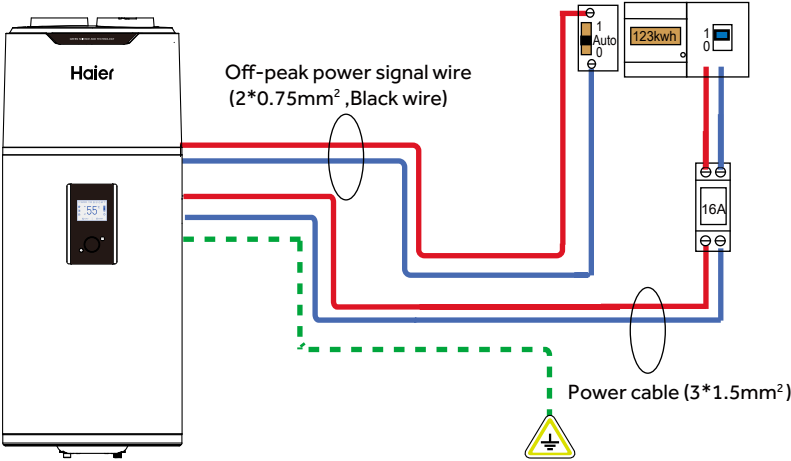
- Only qualified professionals may carry out electrical connections, always with the power off.
- The earthing shall comply with local standards.
- Water heaters shall be equipped with a dedicated power line and residual current circuit breakers. The action current shall not exceed 30 mA;
- The ground line and the null line of the power supply shall be separated entirely. Connecting the null line to the ground line is not allowed.
- Parameter of the power line:  $3 \times 1.5 \text{ mm}^2$  or more.
- If a power cable is damaged, it shall be replaced by qualified professionals to avoid risks.
- In the case of places and walls where water may be splashed to, installation height of a power socket shall not be less than 1.8 m, and it shall be ensured that water would not be splashed on these places. The socket shall be installed out of children's reach.
- The phase line, zero line and ground line inside a power socket used in your home shall be wired correctly without any wrong positioning or false connection, and internal short circuit shall be avoided. Wrong wiring may cause fire accidents.

## Connection to a PV system



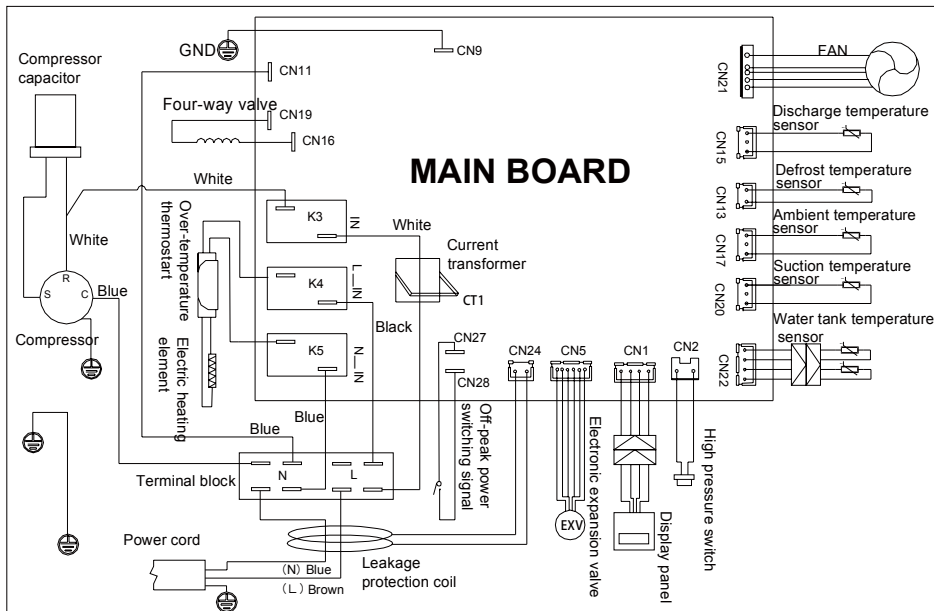
# Installation introduction

## Off-peak power signal wire connection



# Installation introduction

## Wiring diagram



English

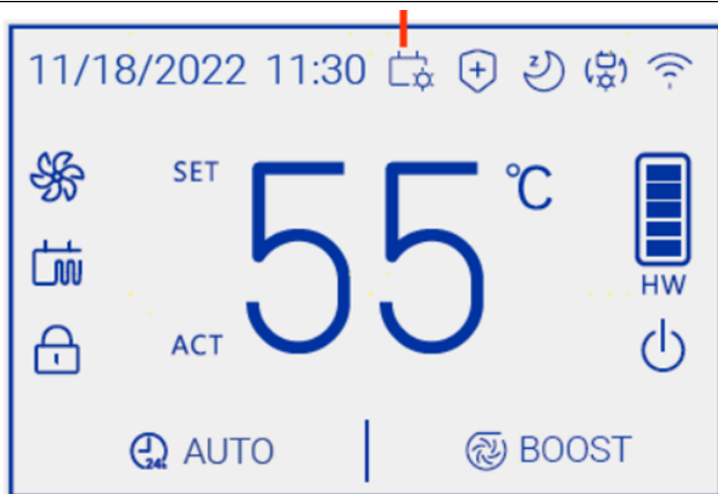
## Commissioning

Installers shall use checking list for trial operation of water heaters as per the user manual and make ✓ in □.

- ☐ Electrical wires are fixed securely?
- ☐ Water drain pipes are connected correctly?
- ☐ Ground wires are connected securely?
- ☐ Supply voltage conforms to relevant electric codes?
- ☐ The control panel works well?
- ☐ All noises are normal?
- ☐ The water tank has been connected with dedicated pressure relief valve (TP valve) and check valve?
- ☐ Materials for hot/cold water pipes conform to requirements of use of hot/cold water?
- ☐ After the water system is completed, the water tank is filled with water? Is there water drained out of the water outlet of the hot water pipeline?
- ☐ After the water pipe of the water system is filled, check the whole water pipeline. There is no leakage?
- ☐ After the water system is filled with water, is there water flowing out after pressure is relieved via the automatic safe pressure relief valve?
- ☐ After the water system is filled with water and after leakage check, all outdoor water pipelines are applied with heat insulation treatment?
- ☐ The drain valve, drain pipe and pressure relief valve drain pipe of the water tank have been connected to the sewage system and the drainage can be carried out well?

# Operation and functions

## Display



## Functions & Protections

- A. Electrical leakage protection  
The control system of this machine features an electricity leakage protection function.
- B. 3-minutes protection  
When starting the machine after electricity input, the system will start after approximately 3 minutes, which is considered to be normal.  
When restarting the machine immediately after shutdown, the system goes into the protection mode and starts after approximately 3 minutes, which is considered to be normal.
- C. Automatic defrosting function  
The defrosting mode is automatically activated if the outdoor temperature is too low and after the compressor already runs continuously for a certain period.
- D. Overload protection  
The working load of the compressor will be heavy if temperature is high in summer. In order to meet hot water requirements of users and to lengthen service life of the compressor, this product automatically adjusts the fan speed to ensure reliable operation of the compressor.
- E. Anti-freezing function  
The heat pump starts heating to avoid freezing of the water tank if the temperature in the water tank is too low.
- F. The default temperature setting is 55°C.

## Description of the icons

| Symbol                                                                                        | Description                                                                                                                                                                                                                                            |
|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Menu key                                                                                      | Power ON/OFF switch                                                                                                                                                                                                                                    |
| Return key                                                                                    | Working mode selection                                                                                                                                                                                                                                 |
|              | Power ON/OFF switch                                                                                                                                                                                                                                    |
|              | Child lock setting                                                                                                                                                                                                                                     |
|  Boost       | Boost mode. Heat pump and backup element are activated at the same time.                                                                                                                                                                               |
|  Mode        | Working mode selection                                                                                                                                                                                                                                 |
|  Information | Information parameter query<br>Users can query Energy accumulation、Energy consumption、Operation information and Message reset.                                                                                                                         |
|  Settings    | Parameter setting<br>Date, connect, language, temperature and volume Settings are available                                                                                                                                                            |
|              | <ul style="list-style-type: none"> <li>- Optimised management of the heat pump and backup element for guaranteed comfort ;</li> <li>- The compressor maximum continuous working time (HP Duration) can be adjust in the installer settings.</li> </ul> |
|             | <ul style="list-style-type: none"> <li>- In this mode ,priority of heat pump heating;</li> <li>User entered timer settings;</li> </ul>                                                                                                                 |
|            | <ul style="list-style-type: none"> <li>- In this mode, the backup element is used as the only heat source.</li> <li>- This function ensures hot water supply when the heat pump is not working properly;</li> </ul>                                    |
|            | <ul style="list-style-type: none"> <li>- Maintains a minimum temperature to prevent freezing.</li> <li>This mode is set for a number of days.</li> </ul>                                                                                               |
|            | In this mode, the heat pump heating in a state of low noise.                                                                                                                                                                                           |

## Description of the icons

| Symbol                                                                              | Description                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | Bactericidal mode<br>User entered Temperature setting、Start time settings、Frequency setting.                                                                                                                                      |
|    | Heat pump working icon.                                                                                                                                                                                                           |
|    | Auxiliary electrical heater working icon.                                                                                                                                                                                         |
|    | PV mode<br>-Communication from power companies.<br>When the PV signal is valid, the system automatically sets the current PV. The Settings include Target temp, Starting heat source, and Activate heating                        |
|    | HC/SG mode<br>-Communication from power companies.<br>When the HC/SG signal is valid, the system automatically executes the current HC/SG Settings. The Settings include Target temp, Starting heat source, and Activate heating. |
|    | Auxiliary heat can be selected boiler, solar heating.                                                                                                                                                                             |
|  | Hot water volume display.                                                                                                                                                                                                         |

Note: Under certain conditions, ECO mode may result in shortages of hot water if the ambient air temperature is low.

# Operating functions

## Installer settings & WIFI connection

### WIFI connection

Your appliance can be connected to your home wireless network and operated remotely using the app.

Getting started:

- 1.Ensure your home WiFi network is turned on.
- 2.Select connect through Settings and then proceed with the distribution network status.

At this time, the WIFI icon (  ) will flash. If the connection is successful, the WIFI icon (  ) will always be on.

If the connection is not successful, the WIFI icon (  ) will always be flashing.

- 3.It may take up to 10 minutes to connect your appliance.

On your mobile device:

- 1.Download the app from [www.fisherpaykel.com/connect](http://www.fisherpaykel.com/connect).
2. Register and create an account.
3. Add your appliance and set up the WiFi connection.

## Checking and maintenance



- Installation and maintenance of the appliance must be done by a qualified professional .
- Before working on the appliance, Shut down the machine and cut off the power supply .
- Do not touch with wet hands.
- Maintenance operations are important to guarantee optimum performance and extend the life of the equipment.

### Checking of the Safety valve

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- Operate the safety valve at least once **every six months** to check if it is running correctly. Otherwise check for blocking and replace the safety valve if necessary.

### Checking of the hydraulic circuit

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- Check the watertightness of the water connections.

### Cleaning of the fan

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- Check the cleanliness of the fan one time per year.

### Checking of the evaporator

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- Because the evaporator fins is very sharp. Risk of injury on your finger.
- Do not damage the fins. Avoid affecting the performance.

- Clean the evaporator at regular intervals using a soft-haired brush.
- If they are bent. Carefully realign the evaporator using a suitable comb.

### Checking of the condensates discharge pipe

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- Check the pipe cleanliness .
- An obstruction by dust may cause poor condensates flow or even a risk accumulation of water in the heat pump plastic base.

### Checking of the Magnesium rod

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- The magnesium anode should be replaced in time, avoid tank corrosion.
- Checking magnesium anode once every 2 years .In poor water areas need to shorten the time.

### Drain the water tank to empty

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- Cut off power supply and shut down water inlet valve, then drain the water tank to empty via the sewage outlet. Please stay away from the sewage outlet if there is hot water inside the water tank to avoid injury.

## Faults and protection

| Fault type                                   | Action                                                                               | Digital indication | Release                                                   |
|----------------------------------------------|--------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------|
| Compressor protection                        | Operating temperature protection                                                     | F2                 | After fault is solved, switch on power supply for release |
|                                              | Air exhaust temperature protection                                                   | F3                 |                                                           |
|                                              | Evaporation high temperature protection                                              | F5                 |                                                           |
| Compressor over-current protection           | Over-current protection                                                              | F6                 |                                                           |
| Electricity leakage alarming                 | The system will automatically cut off power supply if any line fault occurs          | E1                 | After fault is solved, switch on power supply for release |
| Over temperature alarming                    | The actual water temperature $\geq 85^{\circ}\text{C}$                               | E2                 |                                                           |
| Fault of the inner temperature sensor        | If short circuit or circuit break occurs to the sensor                               | E3                 |                                                           |
| Fault of the ambient temperature sensor      | If short circuit or circuit break occurs to the sensor                               | E4                 |                                                           |
| Fault of the evaporation temperature sensor  | If short circuit or circuit break occurs to the sensor                               | E5                 |                                                           |
| Fault of the air exhaust temperature sensor  | If short circuit or circuit break occurs to the sensor                               | E6                 |                                                           |
| Fault of the air intake temperature sensor   | If short circuit or circuit break occurs to the sensor                               | ED                 |                                                           |
| Communication fault                          | Communication of main control panel and display panel is abnormal                    | E7                 |                                                           |
| Pressure switch protection                   | Action of the pressure switch at the exhaust outlet                                  | E8                 |                                                           |
| Ambient temperature protection               | Ambient or outdoor temperature $< -7^{\circ}\text{C}$ or $> 45^{\circ}\text{C}$      | E9                 |                                                           |
| Fault of the Off-peak power switching signal | If not received the Off-peak signal when selecting switch signals by power companies | EF                 |                                                           |
| Fault of the fan                             | Fan blade is stuck or fan and control panel communication failure                    | L7                 |                                                           |



The  symbol on the product or on its packaging indicates that this product is not to be treated as regular household waste. Instead, it must be taken to a recycling collection point for electrical and electronic equipment. By properly disposing of this product, you are contributing to the preservation of the environment and the wellbeing of your fellow citizens. Improper disposal is hazardous to health and environment. You can obtain further information on how to recycle this product from your municipality, your waste management service or the shop where you purchased it.

## Product Fiche

| Model                                               |                                                                                                         | HP80M8-9         | HP110M8-9        |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------|------------------|------------------|
| Power supply                                        | Ph/V/Hz                                                                                                 | AC220-240V, 50Hz | AC220-240V, 50Hz |
| The water heating energy efficiency ( $\eta_{wh}$ ) | %                                                                                                       | 114              | 111              |
| Water heating energy efficiency class               | -                                                                                                       | Class A+         | Class A+         |
| Annual energy consumption (AEC)                     | kWh/annum                                                                                               | 449              | 461              |
| The daily electricity consumption ( $Q_{elec}$ )    | kWh                                                                                                     | 2.153            | 2.211            |
| The sound power level (indoors)                     | dB(A)                                                                                                   | 50               | 50               |
| Mixed water at 40 °C                                | L                                                                                                       | 102.5            | 132.6            |
| Load profiles of water heaters, Type                | -                                                                                                       | M                | M                |
| Manufacturer                                        | Qingdao Economic & Technology Development Zone Haier Water-Heater Co.,Ltd.                              |                  |                  |
| Address                                             | Haier Industry Park, Economic & Technology Development Zone, 266101 Qingdao, PEOPLE'S REPUBLIC OF CHINA |                  |                  |
| Denomination                                        | Heat pump water heater                                                                                  |                  |                  |
| Intended use                                        | Hot water                                                                                               |                  |                  |
| Assembly type                                       | single package                                                                                          |                  |                  |
| Refrigerant                                         | R290 /120g                                                                                              |                  |                  |

Length of warranty:

- Guarantee of the watertightness of the tank: 5 years
- Electrical System (Electronic and Heat Pump): 2 years

Replacement of a component or product can not in any case extend the initial warranty period.



# Haier

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