
# SMALLER BUT GREATER

Haier EMM Series Air Source Heat Pump Water Heater

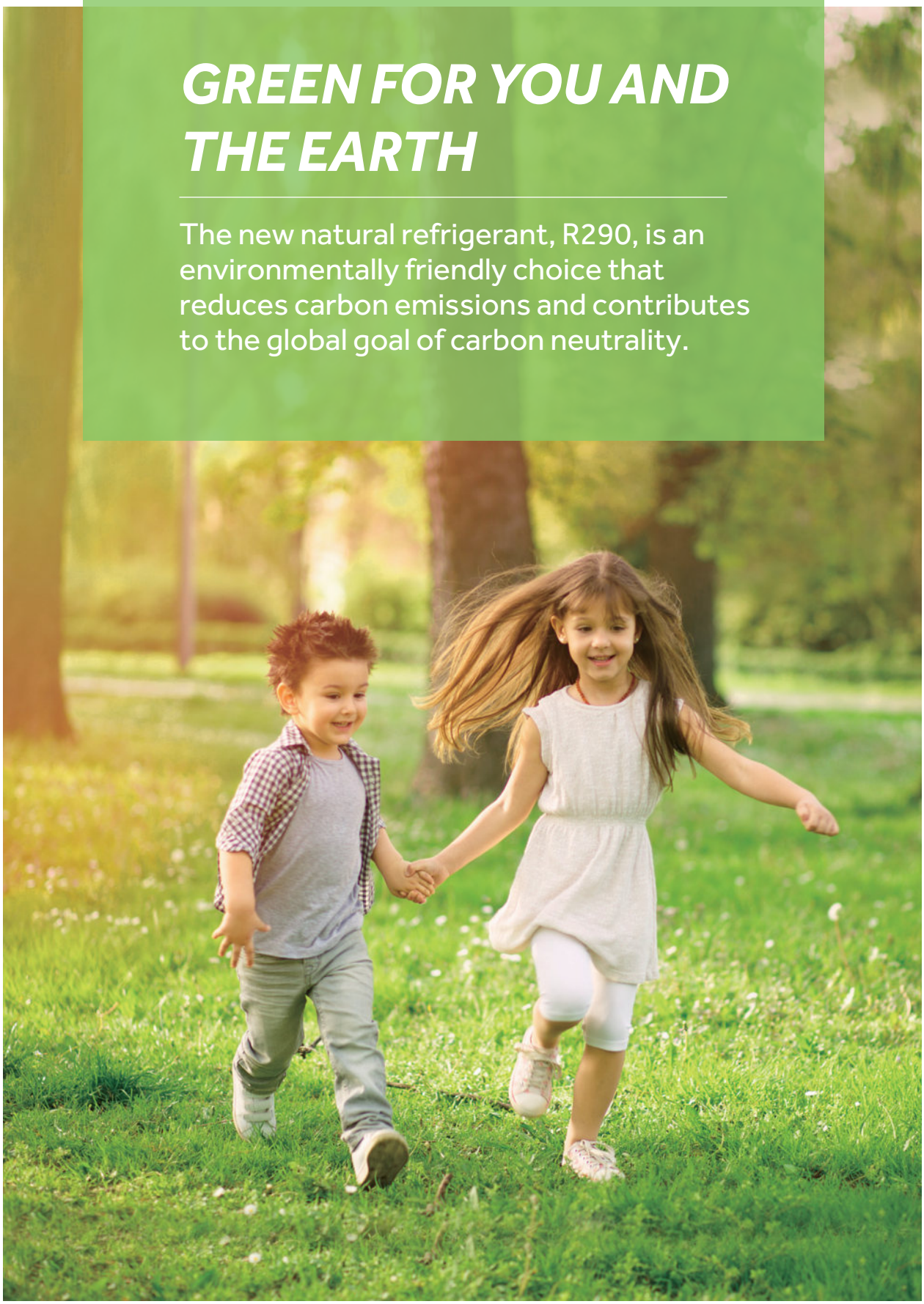
# BRING **ECOLOGY & EFFICIENCY** TO A NEW LEVEL


Haier EMM(Eco Mini Mute)series air source heat pump water heater adopts advanced full-inverter heat pump technology to provide a solution that meets the requirements of high efficiency, stability, and quietness. Compared to traditional electric storage water heaters, it can save up to 75% of energy for domestic hot water in households, making it equally suitable for renovation and new constructions.

A groundbreaking innovation that seamlessly blends mute operation and compact design with unmatched efficiency. Say farewell to noisy water heaters, as our state-of-the-art technology ensures serene surroundings. Its space-saving design suits any home, while advanced heat pump technology maximizes energy saving. Embrace the future of eco-friendly hot water with Eco Mini Mute, where tranquility meets efficiency in a compact package.

# GREEN FOR YOU AND THE EARTH

The new natural refrigerant, R290, is an environmentally friendly choice that reduces carbon emissions and contributes to the global goal of carbon neutrality.



# ECO - R290
# NATURAL REFRIGERANT

## New R290 Refrigerant, More Eco-friendly

In order to achieve carbon neutrality and mitigate global warming, the Haier EMM series air source heat pump water heater uses R290 natural refrigerant, which is a trend of advanced household water solutions, to offer sustainable, green, and comfortable hot water solutions.


## Natural, Non-toxic, and Free of Ozone Depletion

The R290 is a high-purity propane refrigerant with a global warming potential (GWP) of 3. This indicates that it will contribute less to ozone depletion compared to other alternatives.

# ECO - R290
# NATURAL REFRIGERANT

## Excellent Thermodynamic Performance

The R290 refrigerant offers excellent thermodynamic performance, allowing for higher water temperatures to meet various application demands.

### Up to 65°C Water Temperature

The heat pump works alone to make the water temperature as high as 65 °C, and the water mixing rate at 40 °C can reach 130%*, which is equivalent to 30% capacity increase, saving power and enjoying surging water.

*Model: HP110M8-9


## Higher Water Temperatures for Shower and Bacterial Proof

√ For Shower

√ For Bacterial Proof


# *HIGH-EFFICIENCY AND ENERGY SAVING*

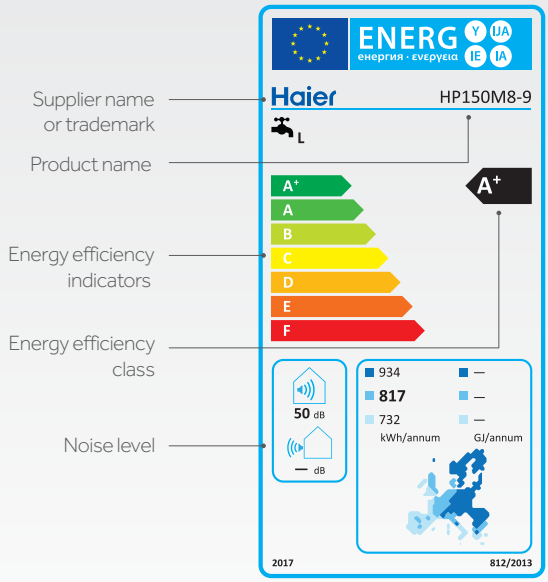
The technologically advanced Haier EMM series air source heat pump water heater features micro-channel condenser and dual power heating system, resulting in lower energy consumption and higher heating efficiency.

# EFFICIENCY

## 75% ENERGY SAVING

### A+ ErP Energy Class

Haier EMM series heat pump water heater achieves the best performance up to A+ energy rating, as illustrated in the product label.





### COP3.39*, 75% Energy Saving

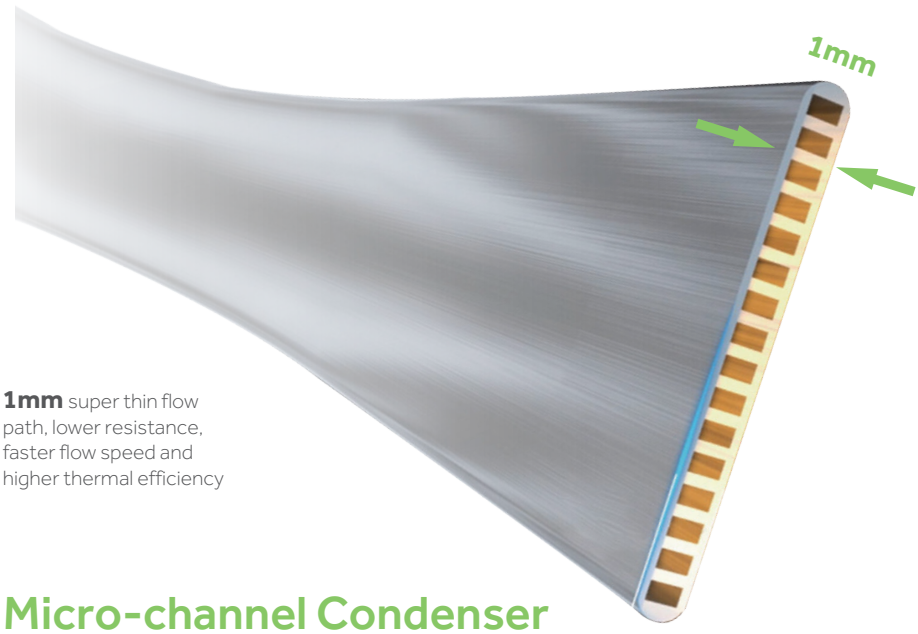
High efficiency means low energy costs, Haier EMM series heat pump water heater can greatly reduce energy bills for users.

*Tested at 14°C operating conditions
Model: HP150M8-9

75% ENERGY SAVING

# EFFICIENCY

## 75% ENERGY SAVING




**1mm** super thin flow path, lower resistance, faster flow speed and higher thermal efficiency

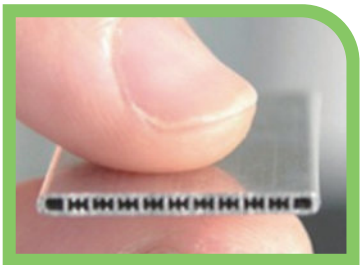
Improve performance

Increase heat transfer efficiency

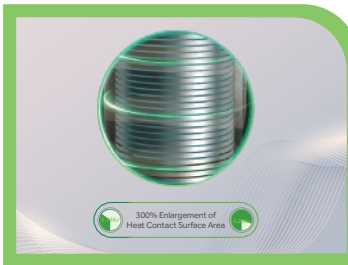
Reduce power consumption

## Micro-channel Condenser Upgraded for R290 Refrigerant

The surface contact heat exchange area is larger, and the refrigerant is fully fed and heat is exchanged in a very small flow path, which greatly improves the efficiency of heat exchange compared to traditional heat exchangers.



Multi-path design with multiple ultra-fine micro-channels in each path, enabling more efficient heat transfer while reducing flow resistance and lowering power consumption, resulting in a performance improvement.




The larger heat transfer surface area leads to a increase in heat transfer efficiency.

Uniform heating with temperature differences of within 4°C between the upper and lower layers, minimal stratification of hot water, outperforming copper pipe heat exchangers, and effectively reducing power consumption.

# EFFICIENCY

## 75% ENERGY SAVING

## Dual Power Heating, Faster and More

Higher power 1200W heat pump heating, double efficiency, while equipped with 1200W electric auxiliary heating, to meet the urgent water demand for all seasons.

### HP Heating capacity 1200W

Powerplus, Double Efficiency

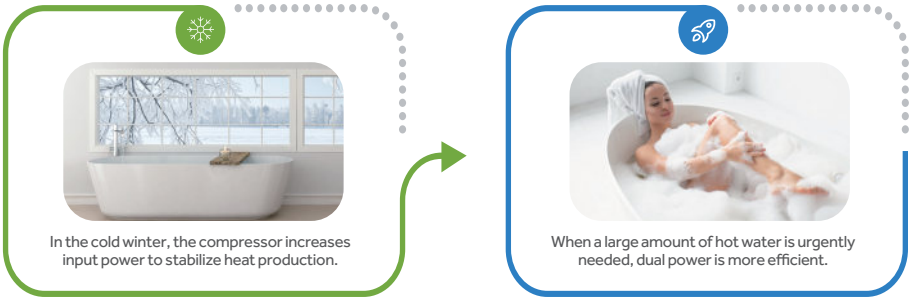
Haier's heating capacity is 25% higher than that of conventional wall-mounted heat pumps on the market, and it also has a shorter heating time of 2 hours*.

*In the case of heating 150L water


### Electric 1200W

Electric heating, dual power, better meet any emergency.

### Hot water is available in less time



In the cold winter, the compressor increases input power to stabilize heat production.

When a large amount of hot water is urgently needed, dual power is more efficient.

# EFFICIENCY

## 75% ENERGY SAVING

### Smart Defrost, More Efficient and Energy Saving

Haier smart defrosting control system is equipped with a four-way valve and an electronic expansion valve with higher refrigerant flow control accuracy, the defrosting effect is more sufficient, so that it is not easy to frost in low temperature conditions.

# *EXCELLENT PERFORMANCE YEAR AFTER YEAR*

Better heating, better reliability. The R290 dedicated compressor and high-quality enamel tank offer a longer service life and stable heating performance.

# **HIGH QUALITY** AND DURABLE

## R290 Dedicated Compressor, High-quality and Efficient

Optimized internal structure of the compressor effectively reduces refrigerant storage inside the compressor, enhancing the refrigerant circulation in the system.


### High Efficiency/Economy

- By using an efficient new pump structure, efficiency increases by more than 2%.
- Based on the characteristics of R290, dedicated refrigeration compressor oil enhances system efficiency, even in situations with low charge levels.

### Low Noise Operation

Optimize motor airflow channel and compressor noise reduction structure, result in a 2.5~3dB(A) decrease in compressor noise level.

# HIGH QUALITY AND DURABLE

## High-quality Enamel Tank, Longer Service Time

High-quality enamel tank, featuring an exclusive design for water heaters, offers a longer service life and stable heating performance.


### Professional Quality

Haier has upgraded its enamel technology to enhance uniformity and create a high-density enamel tank that is resistant to corrosion, acid, alkali, and extremely durable.

### Advanced Formula

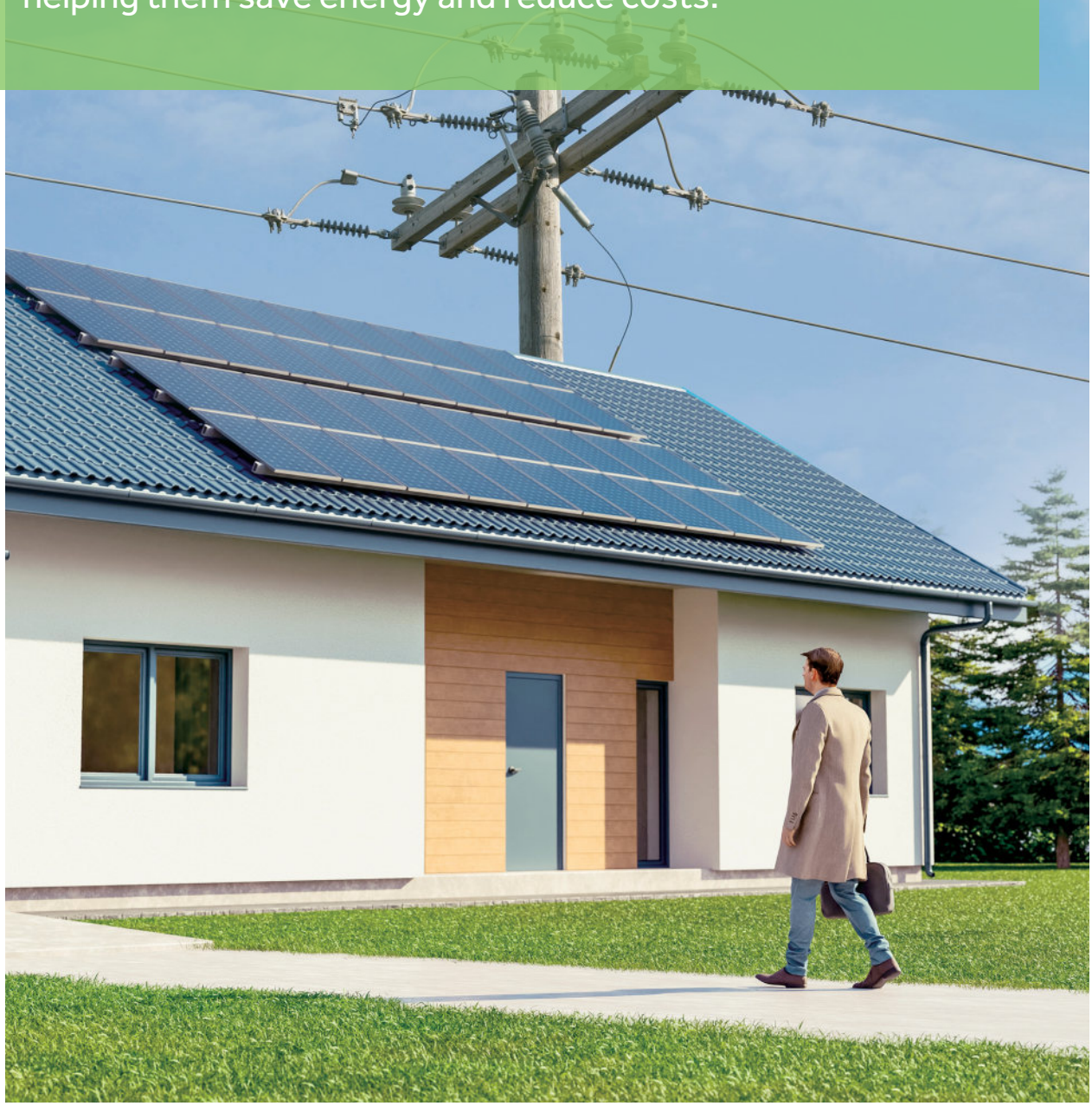
By using high-quality enamel powder (made in the USA) and upgrading the formula to eliminate the pinhole, the granule weight will be lighter and the anti-corrosion performance will be better.

### Production Technology

The enamel material is melted at super high temperature, the enamel layer will isolate the water and steel plate to prevent rust and scale. The tank will have longer service life.

# *POWER YOUR HOME THE SMART WAY, SAVE ENERGY BILLS*

With its advanced capabilities, the multi-energy connected feature allows users to choose economical electrical energy, helping them save energy and reduce costs.

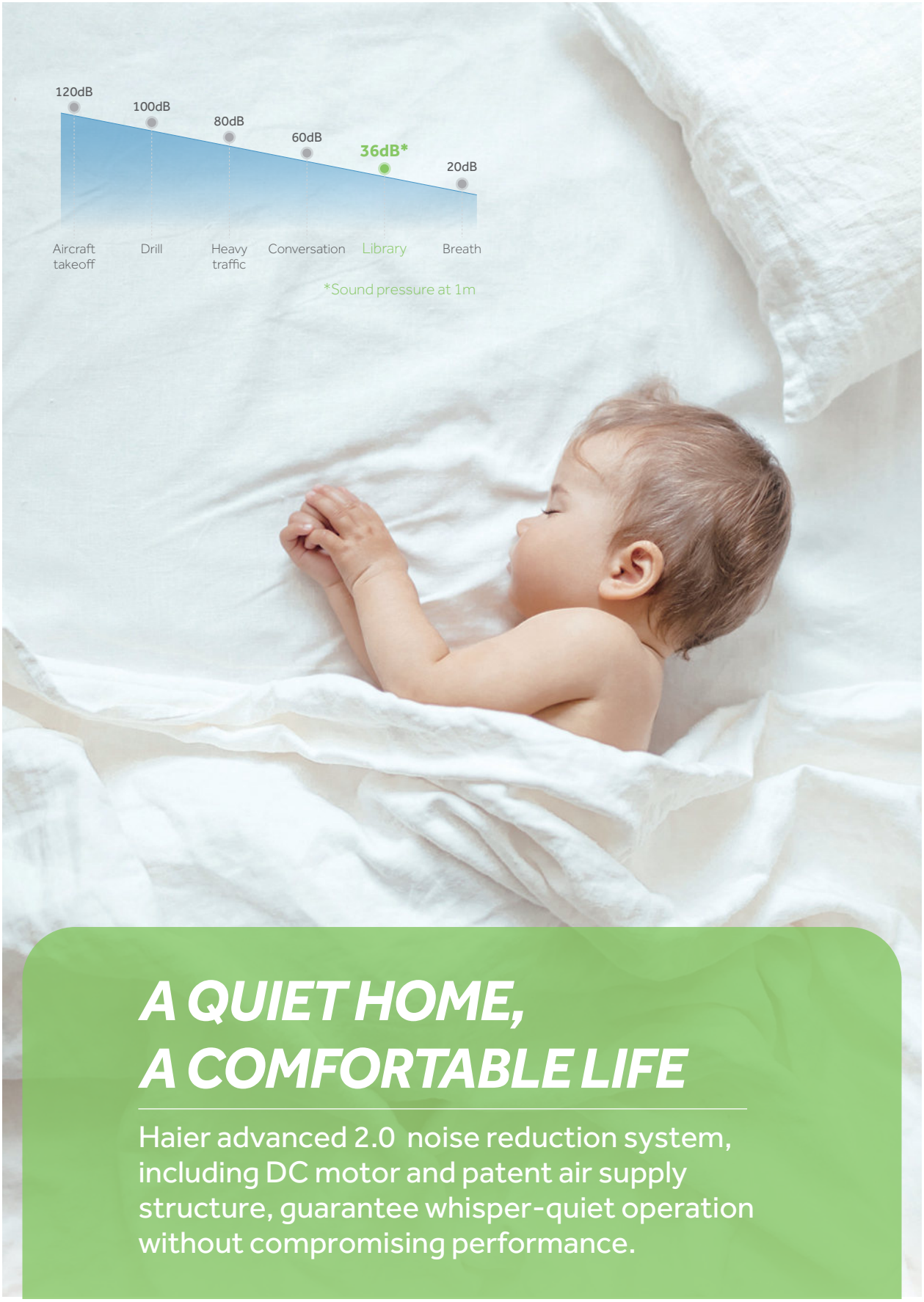


# ECONOMICAL
# MULTI-ENERGY CONNECTED

## Choose Economical Electrical Energy

| Power signal | If you need to meet water usage priority | If you need to balance between water usage and economic benefit | If you need maximum economic benefit |
|---|---|---|---|
| PV | Electric signal<br>A1-Heat pump and electric heating meanwhile when there is sufficient PV<br>B1-Activate and heat immediately, no signal returns to the current mode<br><br>MODE<br>AUTO | Electric signal<br>A1-Heat pump and electric heating meanwhile when there is sufficient PV<br>B3-Activate and heat immediately, mode is disabled. Keep the water temperature at 40°C without signal | Electric signal<br>A1-Heat pump and electric heating meanwhile when there is sufficient PV<br>B4-Activate and heat immediately, No heating when there is no signal . (Former set mode is disabled.) |
| Off-peak | If there are intermittent signals from the power company<br>Electric signal<br>A1-Heat pump and electric heating meanwhile<br>B2-Only activate and heat in the heating time of the current mode<br><br>MODE<br>AUTO<br><br>If it is during a fixed time period with off-peak electricity<br>MODE<br>ECO | If there are intermittent signals from the power company<br>Electric signal<br>A2-Heat pump (electric heating is only started after the water temperature is 65°C)<br>B3-Activate and heat immediately, mode is disabled. Keep the water temperature at 40°C without signal<br><br>If it is during a fixed time period with off-peak electricity<br>MODE<br>ECO | If there are intermittent signals from the power company<br>Electric signal<br>A2-Heat pump (electric heating is only started after the water temperature is 65°C)<br>B4-Activate and heat immediately, No heating when there is no signal . (Former set mode is disabled.)<br><br>If it is during a fixed time period with off-peak electricity<br>MODE<br>ECO |

*The mode can be set according to the power situation in your home, for reference only.
*Please refer to the user manual for specific circuit connection diagrams.




# *A QUIET HOME, A COMFORTABLE LIFE*

Haier advanced 2.0 noise reduction system, including DC motor and patent air supply structure, guarantee whisper-quiet operation without compromising performance.

# COMFORTABLE
# LOW NOISE

## Noise Reduction System Upgrade 2.0, SilentPlus

### DC Fan

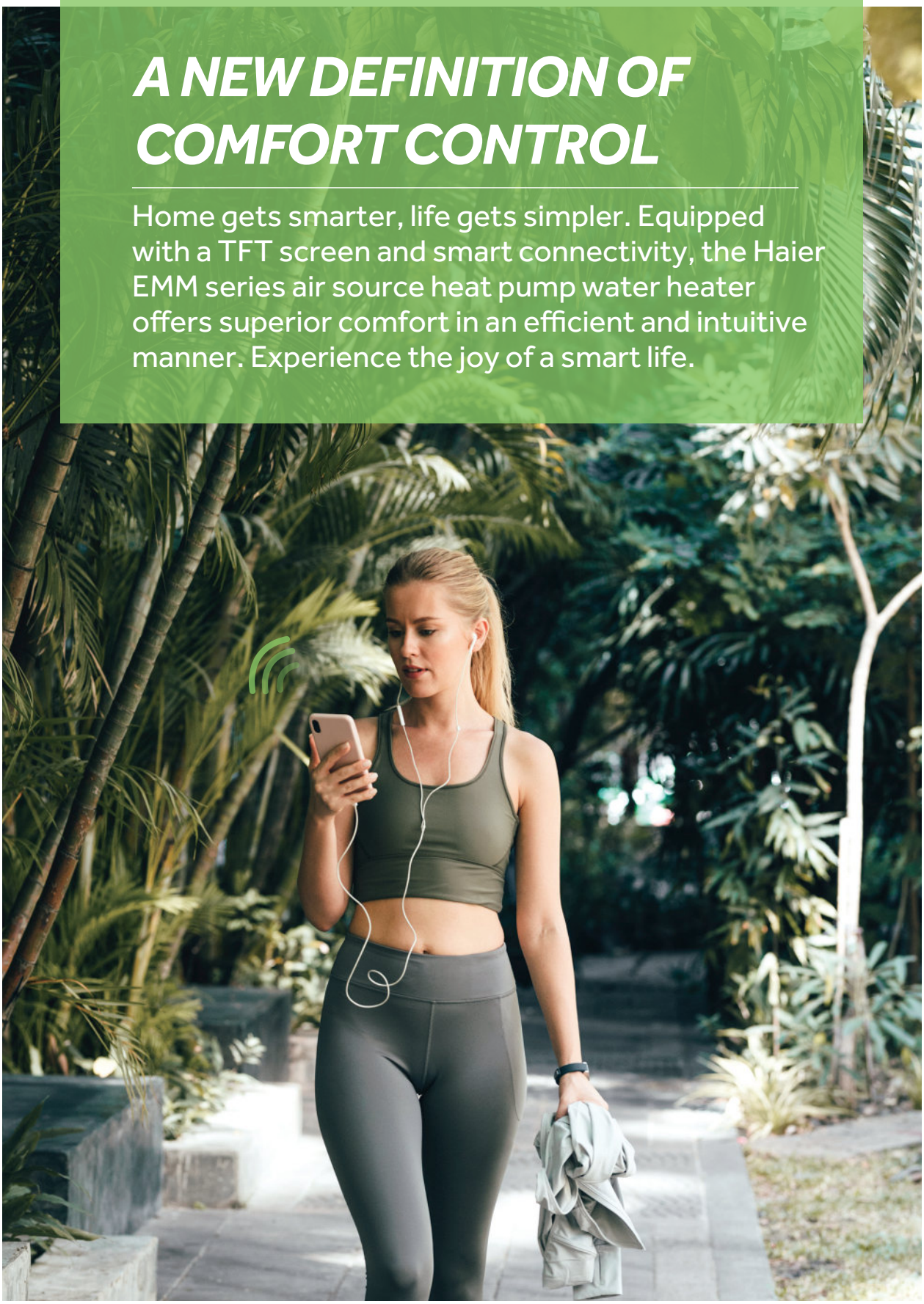
DC fan ensures smooth operation and low noise.

### Enhanced Soundproofing Material

Enhanced soundproofing effect through optimization of soundproofing material.

# A NEW DEFINITION OF COMFORT CONTROL

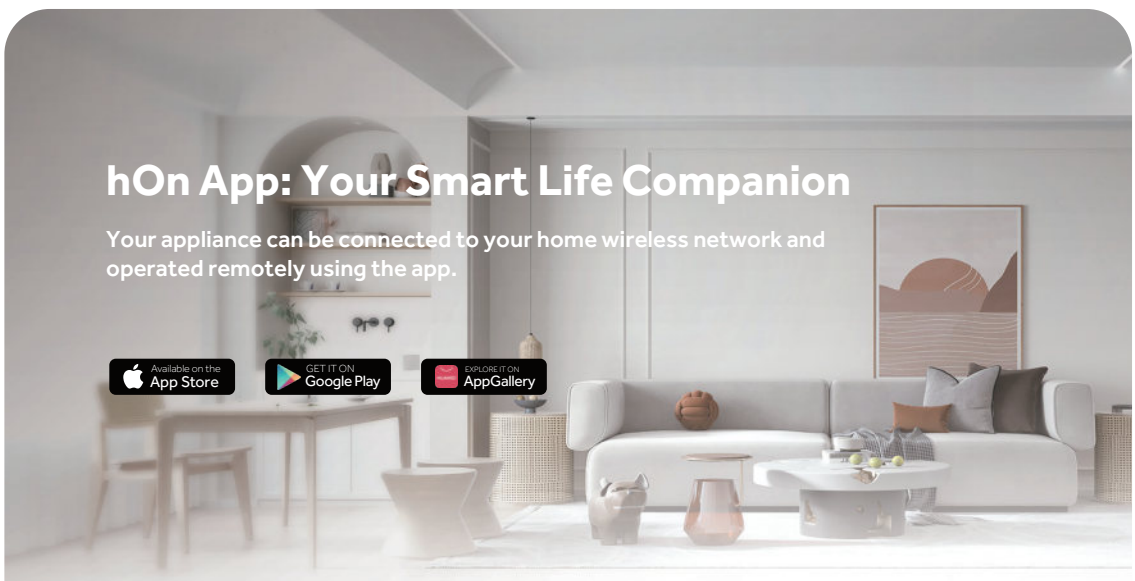
Home gets smarter, life gets simpler. Equipped with a TFT screen and smart connectivity, the Haier EMM series air source heat pump water heater offers superior comfort in an efficient and intuitive manner. Experience the joy of a smart life.



# SMART & CONVENIENT

## Connect and Control from Anywhere, Anytime

Haier EMM series air source heat pump water heater can be operated from your mobile devices via WiFi. With the hOn app, you can easily control the heat pump anytime from anywhere.

## hOn App: Your Smart Life Companion

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

Available on the App Store | GET IT ON Google Play | EXPLORE IT ON AppGallery

### Getting started

1. Ensure that your home WiFi network is turned on.
2. After startup, it will enter fast pairing mode without the need for manual operation.
3. If the connection is successful, the WiFi icon (ᯤ) will always be on.

### On your mobile device

1. Download the app from https://hon-smarthome.com/.
2. Register and create an account.
3. Add your appliance and set up the WiFi connection.

# SMART & CONVENIENT

## Large Screen Display


## Meet Various Water Usage Needs

### AUTO Mode
Automatically heat water to set temperature and maintain it.

### ECO Mode
In this mode, priority of heat pump heating; User entered timer settings.

### ELEC Mode
In this mode, the backup element is used as the only heat source. This function ensures hot water supply when the heat pump is not working properly.

### BOOST Mode
Heat pump and backup element are activated at the same time.

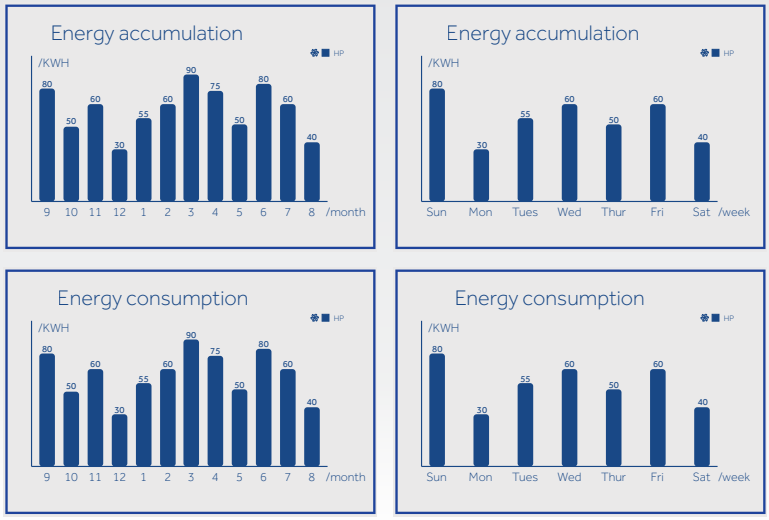
### VAC Mode
Maintains a minimum temperature to prevent freezing.

# SMART & CONVENIENT

## Intuitive Operational Information

### Information

Query the electric energy consumption information of the unit.




Note: The product's energy consumption information is an estimate.

## Customizable Control Experience

Mute

### Mute Mode

In this mode, the heat pump operates quietly.

Sterilization

### Sterilization Mode

Users can set the sterilization temperature, the frequency of sterilization, and the start time of sterilization.

### Personalized sterilization settings

- Set the sterilization temperature, which is adjustable from 55°C to 75°C.
- Set the frequency of sterilization, which can be selected as single, weekly, or monthly.
- Set the start time of sterilization, adjustable from 0 to 24 hours.


# *EASY INSTALLATION FOR YOUR PEACE OF MIND*

The installation of the Haier EMM series air source heat pump water heater is quick and easy, thanks to its innovative design.

# ALL IN ONE INTEGRATED

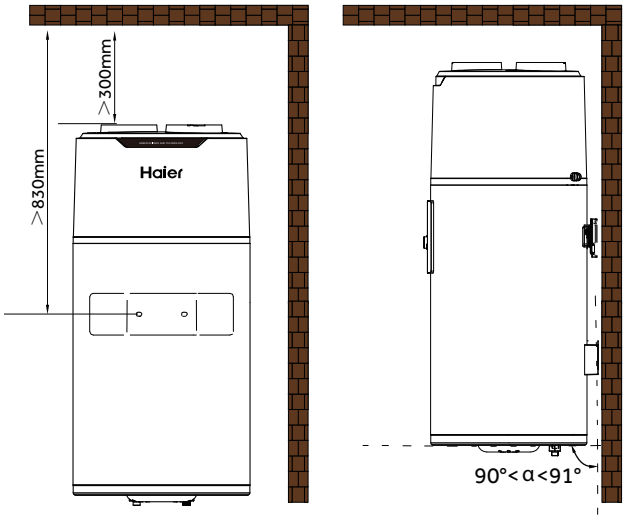

## Elegant Design

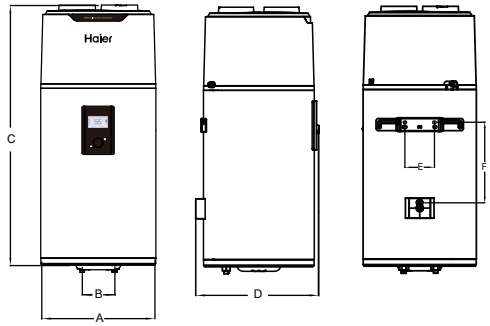
White and gray color, noble and elegant; Shaped design, more unique.


## Easy Installation

Smart hanger structure design, without complex actions, just fix the wall hanging board on the load-bearing wall, lift the machine, and align the back hanger with the wall hanging board to hang in, more convenient installation.

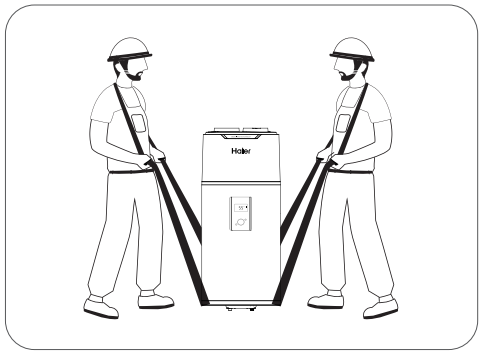
# INSTALLATION INSTRUCTIONS

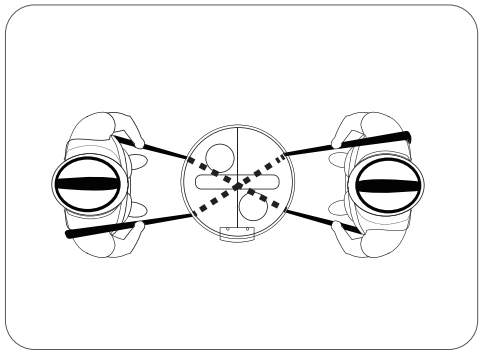


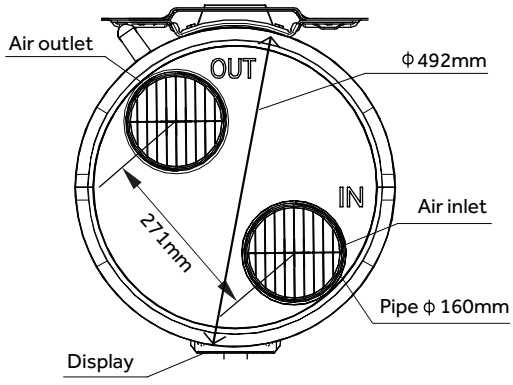

*Dimensions (mm)

| Model | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| HP80M8-9 | 492 | 140 | 1170 | 537 | 159 | 360 |
| HP110M8-9 | 492 | 140 | 1320 | 537 | 159 | 360 |
| HP150M8-9 | 492 | 140 | 1680 | 537 | 159 | 470 |

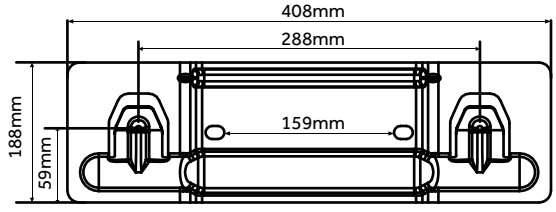


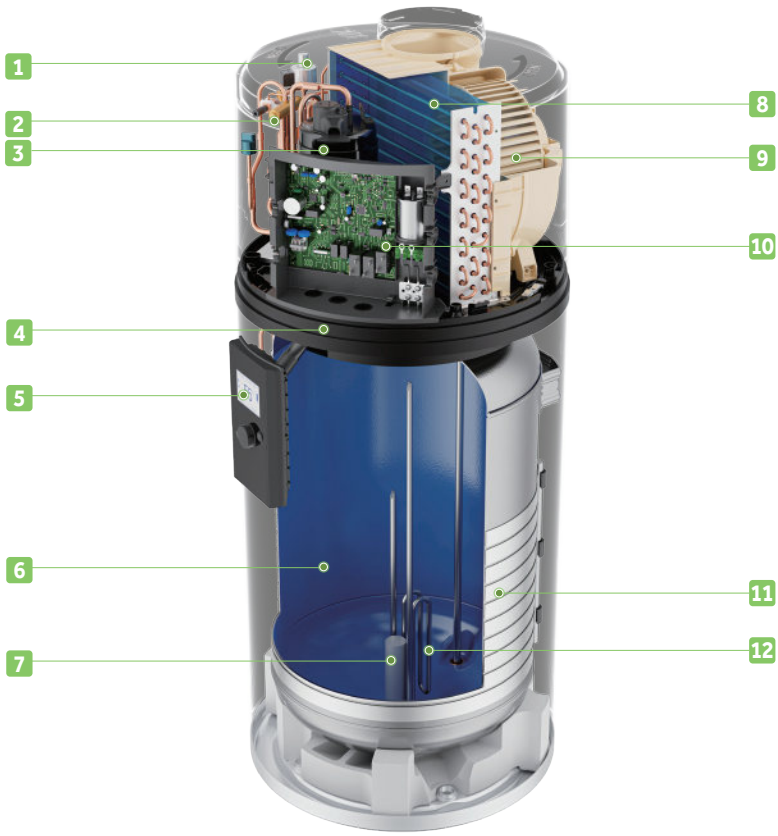
Lift the heat pump by two persons.




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



# COMPONENTS




1 Electronic expansion valve

2 Four-way valve

3 Compressor

4 Drain pan

5 Display panel

6 Enamel tank

7 Magnesium rod

8 Evaporator

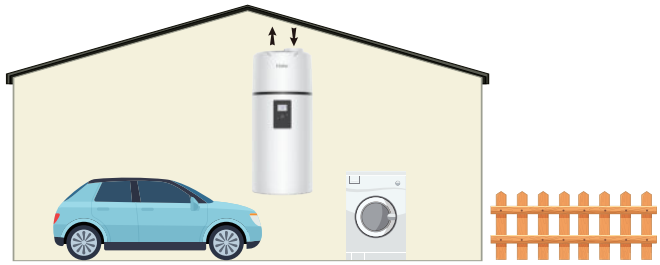
9 DC fan

10 Control panel

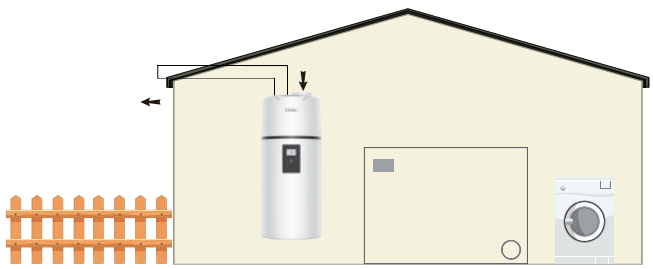
11 Micro-channel condenser

12 Electric heating element

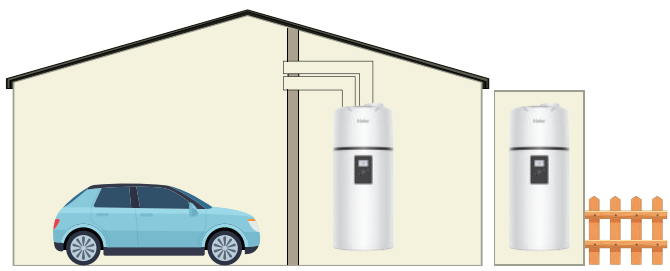
# INSTALLATION INSTRUCTIONS



Garage or laundry room (without ducts)



Laundry room (with one duct)



Habitable room or outside air (with two ducts)

How to select **a heat pump water heater**

| Heater Capacity | Application Recommendation |
|---|---|
| 80 | |
| 80 | |
| 110 | |
| 110 | |
| 110 | |
| 150 | |
| 150 | |

Note: Assume the temperature of mixed water is 40°C, while the output hot water is heated to 75°C

# TECHNICAL PARAMETERS


R290 — R290

Micro-channel Condenser

65°C — Up to 65°C

X2 — Dual Power Heat

Child Lock

36dB

APP — hOn App

| Model | HP80M8-9 | HP110M8-9 | HP150M8-9 |
|---|---|---|---|
| **Tank** | | | |
| Tank volume(L) | 82 | 102 | 149 |
| Rated voltage/frequency(V/Hz) | 220-240/50 | 220-240/50 | 220-240/50 |
| Tank rated pressure(MPa) | 0.8 | 0.8 | 0.8 |
| 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°C/EN16147 | 2.91 | 2.79 | 3.03 |
| COP@14°C/EN16147 | 3.07 | 3.32 | 3.39 |
| Tapping cycle | M | M | L |
| Power input by electric backup | 1200 | 1200 | 1200 |
| Rated power input by heat pump(W) | 250 | 250 | 250 |
| Maximum power input by heat pump(W) | 370 | 370 | 370 |
| Maximum power input(W) | 1570 | 1570 | 1570 |
| Standby power input/Pes(W) | 15.3 | 18.7 | 22.5 |
| Max volume of usable hot water at 40°C setting at 55°C(L) | 103.8 | 128.3 | 190 |
| Heating up time (7°C)(h) | 4.44 | 5.64 | 8.62 |
| Heating up time(14°C)(h) | 3.8 | 4.79 | 7.18 |
| Default temperature setting(°C) | 55 | 55 | 54 |
| Temperature setting range-with heater(°C) | 35-75 | 35-75 | 35-75 |
| Maximum length of air duct(m) | 36 | 36 | 36 |
| Diameter of air duct connection(mm) | 160 | 160 | 160 |
| Max air quantity($m^3$/h) | 375 | 375 | 375 |
| Max working pressure of refrigerant(MPa) | 1.0/3.3 | 1.0/3.3 | 1.0/3.3 |
| Refrigerant type/weight(kg) | R290/0.12 | R290/0.12 | R290/0.12 |
| Noise power dB(A) | 50 | 50 | 50 |
| Ambient temperature for use of product(°C) | -7~45 | -7~45 | -7~45 |
| Operating temperature of heat pump(°C) | -7~45 | -7~45 | -7~45 |
| **Dimension and connections** | | | |
| Water inlet and outlet connection | R1/2"M Large Flow | R1/2"M Large Flow | R1/2"M Large Flow |
| Safety valve connection | R1/2"M | R1/2"M | R1/2"M |
| Drain&Water intlet connection | R1/2"M | R1/2"M | R1/2"M |
| Product dimensions W/D/H(mm) | 492*547*1184 | 492*547*1334 | 492*547*1694 |
| Packing dimensions without pallet W/D/H(mm) | 587*587*1247 | 587*587*1397 | 587*587*1764 |
| Packing dimensions with pallet W/D/H(mm) | / | / | 587*587*1894 |
| Net/Gross weight(kg) | 51/58 | 54/62 | 64/83 |

*The COP and noise level data was tested in Haier lab.
The COP values obtained with external air temperature of 7°C and 14°C, inlet water temperature of 10°C and set temperature of 55°C (according to EN 16147).

CE NF A+

BEYOND THE COMFORT

**ADDRESS**
No.1 Haier Road, Qingdao 266101 P.R. China

**WEBSITE**
www.haier.com