

GLOBAL HOME WATER SCENARIO SOLUTIONS













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■ Global Home Water Scenario Solutions ▲

WEBSITE

www.haier.com

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Global R&D StrengthMarket PerformanceLicense & Certificate

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# **Brand story**

The Internet era is a diverse and unconventional time, where "one size fits all" products and solutions simply aren't enough. Customers want to be treated as individuals and respected for who they are.

Everyone wants their unique lifestyle acknowledged. That is why Haier listens closely to you in order to gain a genuine understanding of what is going on in your life and what is on your mind. So each of you can get the smart home experience you deserve: be it simple, sophisticated, organized or enjoyable.

As a worldwide industry leader, Haier innovates beyond products and solutions and turns the organization into a wholly connected platform. In doing so, internal and external resources are connected quickly and easily. We believe only by doing so, we can best meet our consumers' expectations in this rapidly evolving world.

Be part of the Haier Network. Create new possibilities.

#### 1984

Foundation of Haier.



#### 1985

Haier smashed 76 sub-standard Haier refrigerators, which was afterwards seen as the warning bell of quality in Haier's history.

Haier introduced advance technologies and facilities form German Liebherr, and then produced the first generation of "four star" refrigerators in Asia.



#### 1988

Haier scored the highest in the refrigerator quality evaluation and won the first gold medal in China's refrigerator history.



#### 1991

Haier merged Qingdao Electric Freezer Factory and Qingdao Air Conditioner Factor, and entered the strategic stage of diversified development.



#### 1998

"Haier culture activating stunned fish" was included into the case library of Harvard Business School. CEO Zhang became the first Chinese entrepreneur who took the podium at Harvard.



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#### 2005

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#### 2013

Haier Global Forum on was held in Qingdao, and Haier released its new brand strategy and new brand image in the



Haier and Alibaba reached Business Model Innovation | strategic cooperation. Based on their respective advantages, the two sides will work together to create a new set of systems and standards for logistics, networking strategy stage. distribution, installation and service of home appliances and large goods.



#### 2016

Haier showed the world's first intelligent manufacturing cloud platform COSMO based on the interconnected factory model at the first World's Intelligent Manufacturing Summit.



#### 2018

Haier as the world's first IoT ecosystem brand, was listed into the world's top 500 brands. ranking 41st in the world.



At the celebration of the 40th anniversary of the reform and opening up, CEO Zhang was awarded the title of "reform pioneer" by CPC Central Committee and State Council as an outstanding entrepreneur representative focusing on enterprise management innovation.



#### 2019

Haier became the first and only IoT ecosystem brand entering the global top 100 brands in the history of BrandZ.



Haier Smart Home Co., Ltd. once again ranked among the Fortune Global 500 with its global landing of smart home ecological brand, moving up 51 ranks compared to last year.



#### 2020

According to the latest data of Euromonitor International, Haier ranked No.1 in global retail sales of large household appliances for the 11th time.



Haier smar home was successfully listed on the main board of the stock exchange of Hong Kong Limited, building a global layout of a + D + H capital market



#### 2022

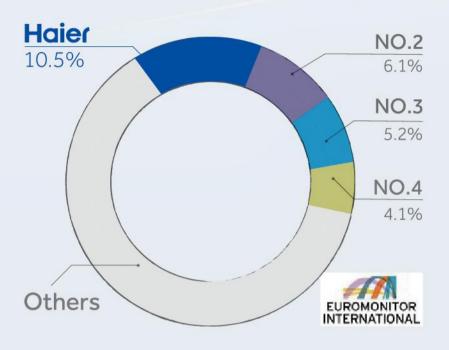
According to the latest data of Euromonitor International, Haier ranked No.1 in global retail sales of large household appliances for the 13 times.



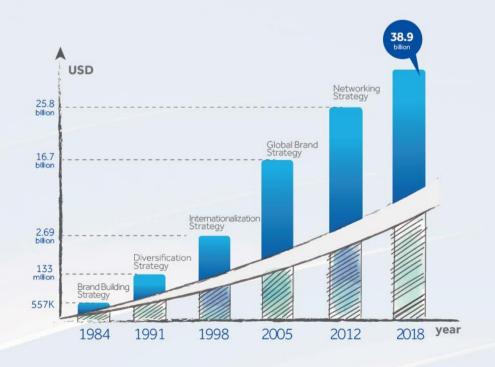
# **Haier** Global Position

Global Market Share

Haier has been honored as the world's largest home appliance brand with a 10.5% retail volume share in 2017 marketing for eight consecutive years.(Data source:Euromonitor).



Global Sales Revenue



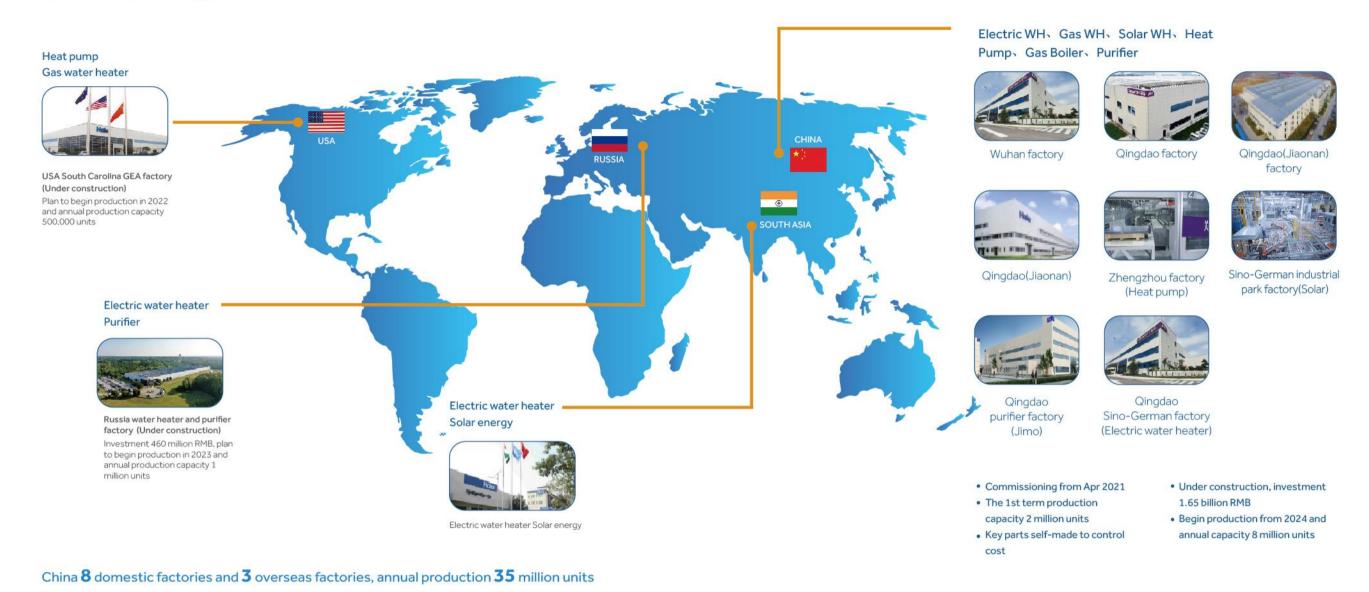
Established in 1984, Haier is the World's New major appliance brand. In the Internet age, Haier aims to become a Networked Enterprise and its global revenue reaching 38.9 billion USD in 2018.

### **Haier** Global Network

Haier has built up its infrastructures globally to meet the customers' quick evolving demands, including R&D centers, production facilities, trading companies and sales networks etc.



# Haier Water Heater Global Smart Manufacturing



The 1st batch of "Highly automatic factory" in China

Haier is the only Chinese brand



Totally 19 companies in the world from 2013-2020



# Haier Water Heater Global R&D Strength—Integrate World Resource and Share International Platform

Global 10 R&D Centers HOPE NO.1 Resource in the world



## Haier Electric Water Heater: Market Leader

# Global consecutive years





# Haier Heat Pump: Best Seller Globally For Consecutive 3 Years





# Haier Water Heater: License & Certificate



# **Product category**

Our products can meet your water needs under different senarios

## Electric water heater

# Flat ▼



Shock Proof Titanium Heating Double Tank Element

ECO-SMART

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Anti- Bacteria

### Square Small ▼



Round Vertical ▼











Mo+ Incoloy Heating Element







# Heat pump

### Monobloc ▼













Split ▼













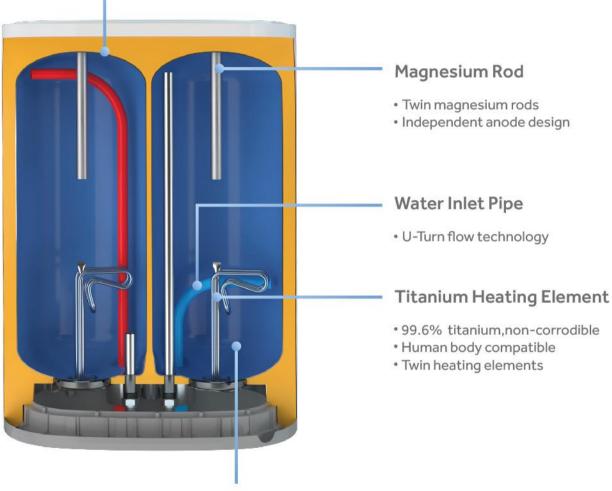


# **TF7 Core Parts Assembly View**

# VH3 Core Parts Assembly View

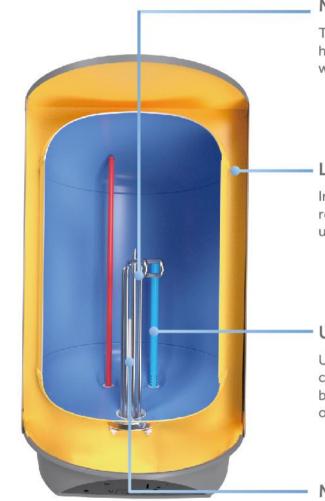
#### Ultra Thick PUF

- The thickness is up to 27mm
- $^{\bullet}$  Keep the water warm for two days once heating to 75°C



### **Titanium Coating UMC Tank**

- Pass 160,000 times of impulse test
- Provide strong resistance to solvent, acid and alkali corrosion
- 8 bar pressure proof



#### Mo+ Incoloy Heating Element

The anti-corrosion performance of Mo incoloy heating element increased by 100% comparing with stainless steel material.

#### Leading Performance Insulation

Insulation retains hot temperature for long, reducing reheating requirements. Saves electricity upto 50%.

#### **U-Turn Flow Technology**

Unique U-type water inlet method, it will not cause invisible dead water after the water in the bottom of the gallbladder without flowing like ordinary water heaters.

### Magnesium Rod

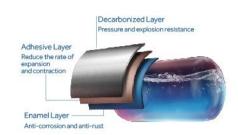
Magnesium material anode rod to prevent corrosion and has no peculiar smell; special stainless steel inner core to ensure no breakage and more durable.

# Quality

#### Inner Tank

#### Tough UMC Inner Tank

Only water heater with Ultra Micro Coating tank, conforms to the Germany DIN Standard, extra thick special steel sheet for longer life. It is proved to pass 160,000 times of impulse test.



### Heating Element

#### Titanium Heating Element

Titanium is a kind of material can be used in aerospace industry, our heating element is made of titanium(made of 99.6% pureness titanium material)so that will have very good function of anti-corrosion, high intensity and high temperature resistance. It is not necessary for the users to change the magnesium rod on time.



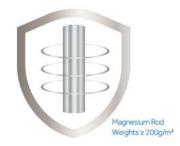
### Mo+ Incoloy Heating Element

The anti-corrosion performance of Mo heating element is 4 times than normal material heating element(stainless steel 316L).



### Magnesium Rod

Magnesium material anode rod to prevent corrosion and has no peculiar smell, every cubic meter of tank surface has minimum 200g magnesium rod.



#### **Liquid Expansion Thermostat**

More accurate and faster action, which means higher reliability.



#### Copper Water Inlet/Outlet

Copper water inlet/outlet, good performance of corrosion resistance and no need to install dielectric joints.



## Comfortable



### Enjoy Healthy Shower with BPS

By choosing the BPS mode, the Water Heater heats up the water at 80°C by which legionella bacteria starts die off and sterilization rate is 99.99%.



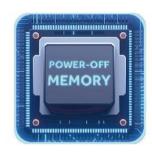
### **U-Turn Flow Technology**

Unique U-type water inlet method, it will not cause invisible dead water after the water in the bottom of the gallbladder without flowing like ordinary water heaters. It will increase the water output volume by 20%.

### Convenient

#### **Power-off Memory**

The intelligent power-off memory function will automatically memorize the data during working, it can resume the data when it is power-on.



#### Bracket

Easy to install under any environment, firm installation and not falling off, convenient removal if necessary.



# **Energy Saving**

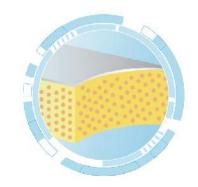
#### Eco Mode

ECO MODE can automatically memorize user's habit to do smart heating, saving energy up to 18%.



### Leading Performance Insulation

Eco-friendly material (polyurethane foam) insulation layer can keep the water warmth for long time.



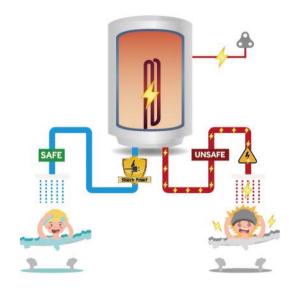
### Safe

#### Safe voltage to prevent shock

By physically converting the rated voltage lower to the safe voltage, it's the unique water heater that ensures this machine safety under the following conditions:







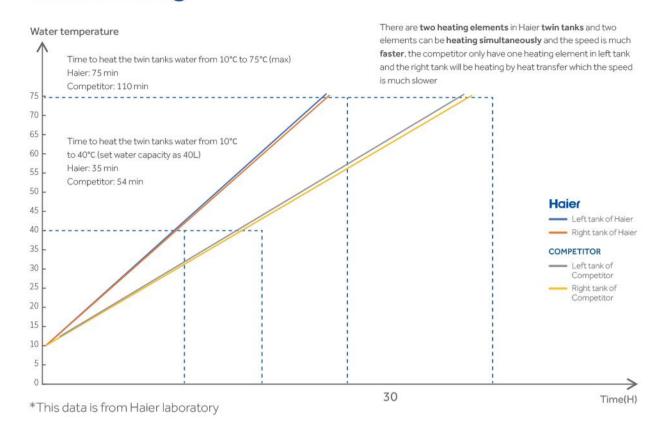
# **Appearance**

### **Compact Design**

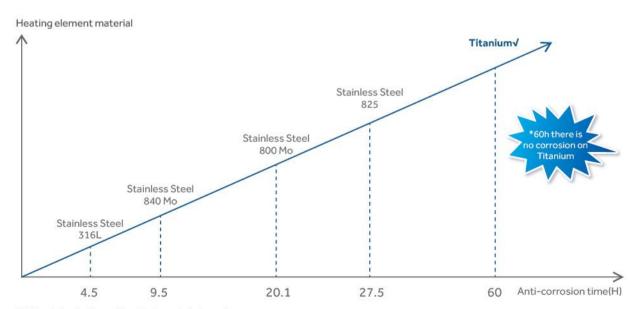
More compact by 24%-28%, the depth is only 28-30cm, its flexibility can accommodate to any installation environment.



# **Fast heating**

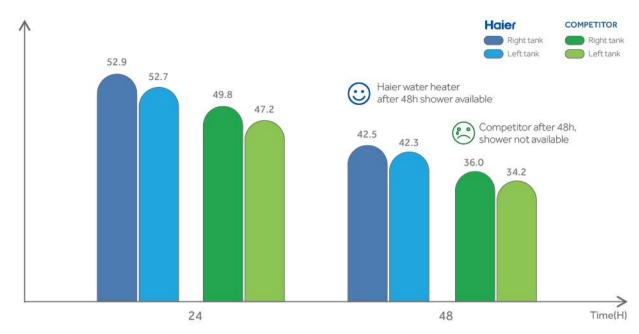


### **Anti-corrosion**



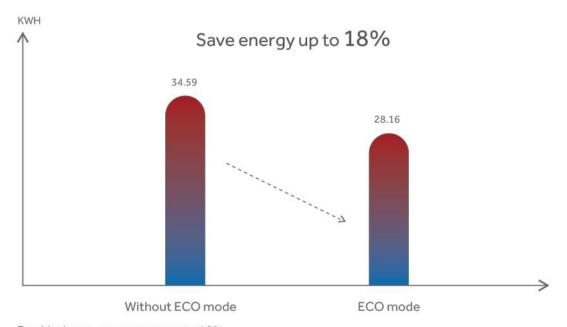
<sup>\*</sup>This data is from the 3rd party laboratory

# Thermal insulation



After 35 hours of finish heating, the competitor left tank will be 40°C, after 54 hours of finish heating, Haier left tank will be 40.2°C, which means Haier can keep warmth 19 hours longer than competitor.

# **Energy saving**



Eco Mode can save energy up to 18%

<sup>\*40°</sup>C water is available for shower, lower than 40°C water is not available

# Installation

Figure I Installation Schematic-Vertical Installation (TF7 Series)

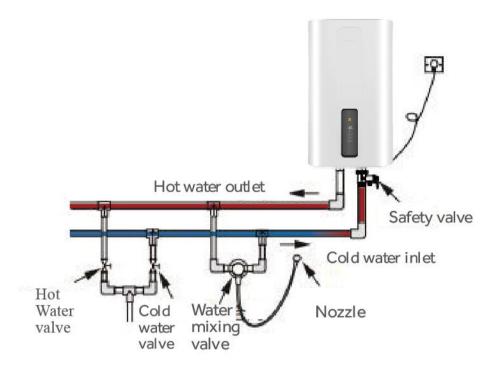
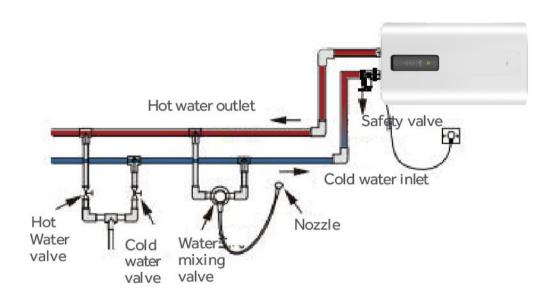
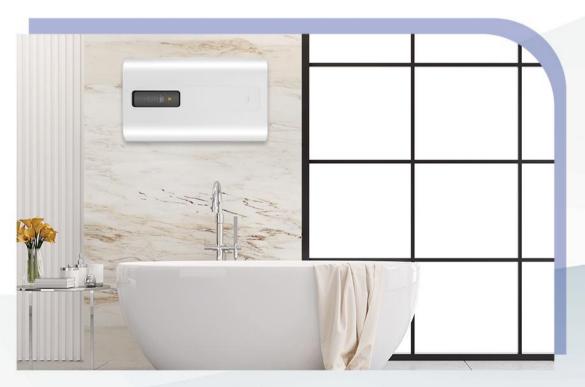




Figure IV Installation Schematic-Horizontal Installation(for TF7 Series only),it must be installed according to the schematic





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# **Scenarios**



























- Shock proof ensures a safe shower for your family
- Ti heating element, non-corrodible and compatible with human body
- Twin power heating

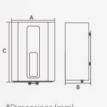
**Control Panel** 

MAX button

ECO button BPS button

- ECO MODE can automatically memorize user's habit to do smart heating, saving cost by higher efficiency
- By choosing the BPS mode, the Water Heater heats up the water at 80°C to inhibit the bacteria
- Suitable for Horizontal & Vertical Installation

| Model                          | ES50V-TF7(EU)   | ES80V-TF7(EU)   |
|--------------------------------|-----------------|-----------------|
| Installation type              | Universal       | Universal       |
| Control method                 | Electronic      | Electronic      |
| Capacity(L)                    | 47              | 74              |
| Material of Inner tank         | Enamelled steel | Enamelled steel |
| Material of Outer body         | PCM steel       | PCM steel       |
| Material of Heating Element    | Titanium        | Titanium        |
| Rated voltage(V)/Frequence(Hz) | 220-240/50      | 220-240/50      |
| Rated power(W)                 | 1500/1500       | 1500/1500       |
| Rated temperature (°C)         | 75              | 75              |
| Rated pressure(Bar)            | 8               | 8               |
| ap water pressure(Bar)         | ≥0.05           | ≥0.05           |
| Vater-proof grade              | IPX4            | IPX4            |
| Product dimensions H/W/D(mm)   | 745*530*320     | 1070*530*320    |
| Packing dimensions H/W/L(mm)   | 613*411*857     | 613*411*1177    |
| Net weight(kg)                 | 25              | 34              |
| Gross weight(kg)               | 29              | 40              |
| .oad qty.40HQ                  | 315             | 210             |
| nerov Class                    | FrpB            | FroB            |



| Model         | A   | В   | C    |
|---------------|-----|-----|------|
| ES50V-TF7(EU) | 530 | 320 | 745  |
| ES80V-TF7(EU) | 530 | 320 | 1070 |

















### ES50/80V-VH3(EU)







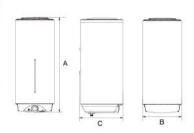




• The anti-corrosion performance of Mo incoloy heating element increased by 100% comparing with stainless steel material

- Erp Class B energy class
- · Control panel with electric display, clear and fashional
- Heat the water to 55°C which meets the basic daily demands, while reducing scaling, saving energy and increase the service life of heating element
- Specialized designed dial real-time displays the volume of remaining water

| Model                          | ES50V-VH3(EU)   | ES80V-VH3(EU)   |
|--------------------------------|-----------------|-----------------|
| Installation type              | Vertical        | Vertical        |
| Control method                 | Electronic      | Electronic      |
| Capacity(L)                    | 47              | 75              |
| Material of Inner tank         | Enamelled steel | Enamelled steel |
| Material of Outer body         | SPCC coating    | SPCC coating    |
| Material of Heating Element    | Incoloy 310s+Mo | Incoloy 310s+Mo |
| Rated voltage(V)/Frequence(Hz) | 220-240/50      | 220-240/50      |
| Rated power(W)                 | 1500            | 1500            |
| Rated temperature(°C)          | 75              | 75              |
| Rated pressure(Bar)            | 8               | 8               |
| Tap water pressure(Bar)        | ≥0.05           | ≥0.05           |
| Water-proof grade              | IPX4            | IPX4            |
| Product dimensions H/W/D(mm)   | 410*421*686     | 410*421*996     |
| Packing dimensions H/W/L(mm)   | 485*495*750     | 485*495*1060    |
| Net weight(kg)                 | 18              | 26              |
| Gross weight(kg)               | 21              | 30              |
| Load qty.40HQ                  | 376             | 240             |
| Energy Class                   | ErpB            | ErpB            |



\*Dimensions (mm)

| Model         | Α   | В   | С   |
|---------------|-----|-----|-----|
| ES50V-VH3(EU) | 686 | 410 | 421 |
| ES80V-VH3(EU) | 996 | 410 | 421 |



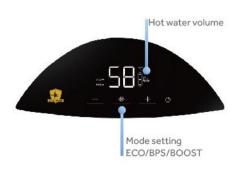


**Control Panel** 





# **Elegant Appearance**





# ES30/50/80/100V-A3(EU)











• Shock proof ensures a safe shower for your family

- The anti-corrosion performance of Mo incoloy heating element increased by 100% comparing with stainless steel material
- Real-time hot water temperature display
- UMC structure with 850°C treatment, pass the 160,000 cycles of pressure test
- · Unique U-type water inlet method, it will not cause invisible dead water after the water in the bottom of the gallbladder without flowing like ordinary water heaters

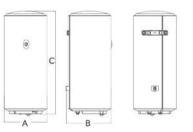
| Model                          | ES30V-A3(EU)    | ES50V-A3(EU)    | ES80V-A3(EU)    | ES100V-A3(EU)   |
|--------------------------------|-----------------|-----------------|-----------------|-----------------|
| Installation type              | Vertical        | Vertical        | Vertical        | Vertical        |
| Control method                 | Mechanical      | Mechanical      | Mechanical      | Mechanical      |
| Capacity(L)                    | 30              | 50              | 80              | 100             |
| Material of Inner tank         | Enamelled steel | Enamelled steel | Enamelled steel | Enamelled steel |
| Material of Outer body         | SPCC coating    | SPCC coating    | SPCC coating    | SPCC coating    |
| Material of Heating Element    | Incoloy 310s+Mo | Incoloy 310s+Mo | Incoloy 310s+Mo | Incoloy 310s+Mo |
| Rated voltage(V)/Frequence(Hz) | 220-240/50      | 220-240/50      | 220-240/50      | 220-240/50      |
| Rated power(W)                 | 1500            | 1500            | 1500            | 1500            |
| Rated temperature ('C)         | 75              | 75              | 75              | 75              |
| Rated pressure(Bar)            | 8               | 8               | 8               | 8               |
| Tap water pressure(Bar)        | ≥0.05           | ≥0.05           | ≥0.05           | ≥0.05           |
| Water-proof grade              | IPX4            | IPX4            | IPX4            | IPX4            |
| Product dimensions H/W/D(mm)   | 390*400*447     | 390*400*650     | 390*400*930     | 390*400*1160    |
| Packing dimensions H/W/L(mm)   | 475*459*491     | 475*459*666     | 475*459*966     | 475*459*1189    |
| Net weight(kg)                 | 12              | 15              | 24              | 30              |
| Gross weight(kg)               | 14              | 17              | 27              | 33              |
| Load qty.40HQ                  | 610             | 473             | 314             | 266             |
| Energy Class                   | ErpC            | ErpC            | EmC             | ErpC            |







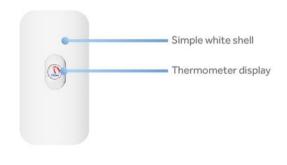




#### \*Dimensions (mm)

| Model         | Α   | В   | С    |
|---------------|-----|-----|------|
| ES30V-A3(EU)  | 390 | 400 | 447  |
| ES50V-A3(EU)  | 390 | 400 | 650  |
| ES80V-A3(EU)  | 390 | 400 | 930  |
| ES100V-A3(EU) | 390 | 400 | 1160 |

# **Elegant Appearance**





## **ES10V-Q1/Q2(EU)**







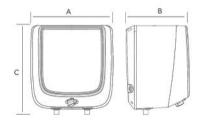


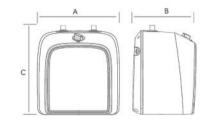


• Shock proof ensures a safe shower for your family

- ABS body is Anti-corrosion, durable and good energy saving
- Only water heater with Ultra Micro Coating tank, conforms to the Germany DIN Standard, extra thick special steel sheet for longer life
- Unique U-type water inlet method, it will not cause invisible dead water after the water in the bottom of the gallbladder without flowing like ordinary water heaters
- Incoloy Heating Element has best performance under high temperature and pressure conditions

| Model                          | ES10V-Q1(EU)    | ES10V-Q2(EU)    |
|--------------------------------|-----------------|-----------------|
| Installation type              | Overtank        | Under tank      |
| Control method                 | Mechanical      | Mechanical      |
| Capacity(L)                    | 10              | 10              |
| Material of Inner tank         | Enamelled steel | Enamelled steel |
| Material of Outer body         | ABS             | ABS             |
| Material of Heating Element    | Incoloy840      | Incoloy840      |
| Rated voltage(V)/Frequence(Hz) | 220-240/50      | 220-240/50      |
| Rated power(W)                 | 1650            | 2150            |
| Rated temperature(°C)          | 75              | 75              |
| Rated pressure(Bar)            | 7.5             | 7.5             |
| Tap water pressure(Bar)        | ≥0.05           | ≥0.05           |
| Water-proof grade              | IPX4            | IPX4            |
| Product dimensions H/W/D(mm)   | 350*270*350     | 350*270*350     |
| Packing dimensions H/W/L(mm)   | 416*336*462     | 416*336*462     |
| Net weight(kg)                 | 8               | 8               |
| Gross weight(kg)               | 10              | 10              |
| Load qty.40HQ                  | 1100            | 1100            |
| Energy Class                   | ErpB            | ErpB            |





#### \*Dimensions (mm)

| Model        | Α   | В   | С   |
|--------------|-----|-----|-----|
| ES10V-Q1(EU) | 350 | 270 | 350 |
| ES10V-Q2(EU) | 350 | 270 | 350 |











### **ES15V-Q1/Q2(EU)**





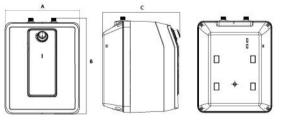


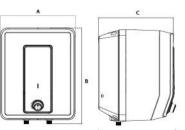


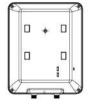
• Shock proof ensures a safe shower for your family

- Only water heater with Ultra Micro Coating tank, conforms to the Germany DIN Standard, extra thick special steel sheet for longer life
- Unique U-type water inlet method, it will not cause invisible dead water after the water in the bottom of the gallbladder without flowing like ordinary water heaters
- Incoloy Heating Element has best performance under high temperature and pressure conditions

| Model                          | ES15V-Q1(EU)    | ES15V-Q2(EU)    |
|--------------------------------|-----------------|-----------------|
| Installation type              | Overtank        | Under tank      |
| Control method                 | Mechanical      | Mechanical      |
| Capacity(L)                    | 15              | 15              |
| Material of Inner tank         | Enamelled steel | Enamelled steel |
| Material of Outer body         | PS              | PS              |
| Material of Heating Element    | Incoloy310s+Mo  | Incoloy310s+Mo  |
| Rated voltage(V)/Frequence(Hz) | 220-240/50      | 220-240/50      |
| Rated power(W)                 | 2000            | 2000            |
| Rated temperature(°C)          | 75              | 75              |
| Rated pressure(Bar)            | 8               | 8               |
| Tap water pressure(Bar)        | ≥0.05           | ≥0.05           |
| Water-proof grade              | IPX4            | IPX4            |
| Product dimensions H/W/D(mm)   | 327*333*402     | 327*333*402     |
| Packing dimensions H/W/L(mm)   | 394*389*477     | 394*389*477     |
| Net weight(kg)                 | 9               | 9               |
| Gross weight(kg)               | 10              | 10              |
| Load qty.40HQ                  | 960             | 960             |
| Energy Class                   | ErpB            | ErpB            |
|                                |                 |                 |







\*Dimensions (mm)

|   | Model        | Α   | В   | С   |
|---|--------------|-----|-----|-----|
| I | ES15V-Q1(EU) | 327 | 402 | 333 |
| Ī | ES15V-Q2(EU) | 327 | 402 | 333 |











# Let us prove our advantages

### Wide range

DHW output temperature is from 35°C to 65°C, the working temperature is from -7°C to 45°C, Enjoy happy and safe shower for 365 days.

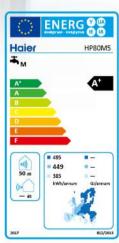




## **Energy saving**

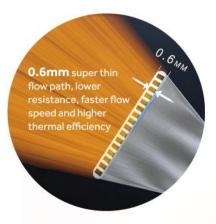
Haier focus on energy saving and its heat pump achieve the highest level of A+ in EU, also NF performance is 3 stars.





## High efficiency condenser

Full-divisional super conductive condenser with multi flow circuit, it can reduce the flowing resistance and lower the compressor energy consumption to get higher thermal efficiency. The contact area is bigger and fit seamlessly to the tank, which has faster heating speed.



#### **UMC** inner tank

Commercial level UMC tank, exclusive design for water heater, it has longer service life and stable heating performance.

- Professional quality: Haier upgraded enamel technology to increase the uniformity and make the high density enamel tank which is resistant to corrosion, acid, alkali and very durable;
- Advanced formula: taking use of high quality enamel
  powder (made in USA) and upgrade 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 melting by super high temperature, the enamel layer will isolate the water and steel plate to prohibit rust and scale. The tank will have longer service life.



### **Easy operation**

The user can choose vacation mode which will save cost. The heat pump will not work under vacation mode and it can automatically heat the water to  $65^{\circ}$ C one day before the vacation ends. This function can sterilize the tank and make sure the user can enjoy healthy water.



# Local subsidy to use heat pump IN SPAIN



HP200S1(EU)

Subsidy:1177.05 Euro ≈One mobilephone



HP300S1(EU)

Subsidy:1615 Euro ≈One famous brand watch



HP200M3(EU)

Subsidy:839.025 Euro ≈One set of TV

Note: The subsidy policy is based on Spanish Royal regulation (477/2021), only for reference, the actual subsidy is subject to local regulations.



HP250M3(EU)

Subsidy:843.975 Euro ≈One laptop



Subsidy:881.1 Euro ≈One time of vacation cost



HP150M5(EU)

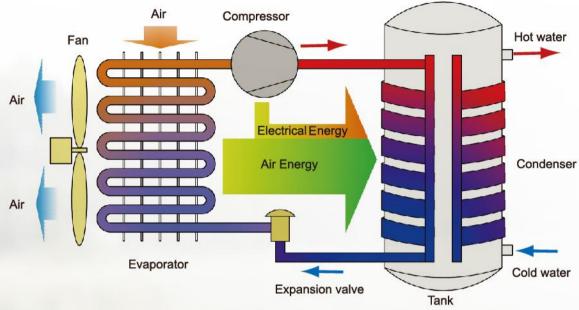
Subsidy:398.75 Euro Subsidy:447.5 Euro ≈One famous brand ≈One ticket of soccer clothing game

Subsidy:396.25 Euro ≈One pair of shoes HP250M3C(EU)

HP80M5(EU)



# How it works?



The refrigerant fluid crosses the evaporator and absorbs the heat from the air drawn in by the fan. This process ensures the refrigerant changes state from a liquid to a gas through evaporation

The refrigerant fluid loses further pressure and temperature by passing through the expansion valve, causing it to completely return to its original state, It will be working by this recycle

The compressor pressurises the refrigerant gas, which causes it to increase in temperature

gas transfers its heat to the water, which circulates into the home. This exchange process causes the refrigerant to cool down as it transfers the heat and forces it to return to a partial liquid state





### Smart defrost

Smart defrost system, lower the energy consumption and increase the working efficiency.



### **Electricity cost saving**

Optimized electric control solution, enjoy the low power by PV/HC.



#### Low noise

Patented ventilation structure and high efficiency fan, make sure the user can enjoy a quiet environment



### High class tank

Commercial class 3 layer inner tank, more durable and resistant to acid, alkali and corresion



#### Professional compressor

Specially designed professional heat pump compressor, has service life up to 10 years and very good thermal efficiency.



### **User-friendly**

Big touch screen, easy to operate and real-time display.



#### Stable system

Electronic expansion valve control system, more accurate and stable function.



### Higher efficiency

Patented heat convection technology, full-dimensional micro channel and bottom coil heat exchanger to heat the water by whole tank. The thermal efficiency and DHW output will increase dramatically.



# HP80M5(EU) HP110M5(EU) HP150M5(EU)



Under Photovoltaic system, you can set the product to optimize use of electricity produced



Plug and play like electric water heater, easy to install and replace



Work under low tariff hours to save more electricity cost



The micro-channel condenser has larger contact surface for better heat transfer performance



Powerful compressor contribute to shorter heating up time



Slim body design saves space

#### COMFORT

- Heat pump can heat the water to 65°C
- Heat the water one time by 65°C every 7 days to sterilize legionella
- ♦ The noise is only 48.7dB
- 1200W standby power to meet the emergency

  DHW need.

#### **EFFICIENCY&ENERGY SAVING**

- ♦ COP is up to 3.58
- A+ energy class
- Smart defrost to increase thermal efficiency
- Working temperature: -7°C-45°C

#### QUALITY

- Magnesium anode protection
- Titanium enamel steel tank
- ♦ 40 mm PUF insulation

#### EASY OPERATION/MULTI-MODE OPTIONS

- Auto mode: heat pump can supply DHW anytime and electric heating element will auto work over heating time
- ECO mode: heat pump supply DHW based on set time or electric signal (PV/HC/SG)
- ELEC mode: only electric heating element is heating water
- Vacation mode: saving energy by putting unit in a sleep mode under vacation









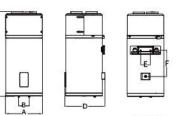




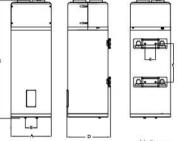


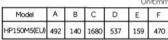






|             |     |     |      |     | Ur  | nit:mr |
|-------------|-----|-----|------|-----|-----|--------|
| Model       | Α   | В   | С    | D   | Е   | F      |
| HP80M5(EU)  | 492 | 140 | 1170 | 537 | 159 | 362    |
| HP110M5(EU) | 492 | 140 | 1320 | 537 | 159 | 362    |













| S/N | Description                |  |
|-----|----------------------------|--|
| 1   | Air grille                 |  |
| 2   | Electronic expansion valve |  |
| 3   | Four-way-valve             |  |
| 4   | Evaporator                 |  |
| 5   | Compressor                 |  |
| 6   | Drain pan                  |  |
| 7   | Upport plate               |  |
| 8   | Cover for display          |  |
| 9   | Micro channel condenser    |  |

| Model  | HP80M5(EU)                | HP110M5(EU)               | HP150M5(EU)               |  |
|--|---------------------------|---------------------------|---------------------------|--|
| Installation   | Vertical wall-hung/ducted | Vertical wall-hung/ducted | Vertical wall-hung/ducted |  |
| Tank volume (L)  | 82                        | 102                       | 149                       |  |
| Rated voltage/ frequency (V/Hz)                        | 220~240V/50Hz             | 220~240V/50Hz             | 220~240V/50Hz             |  |
| Tank rated pressure (bar)                              | 8                         | 8                         | 8                         |  |
| Extra exchanger design / area                          | No                        | No                        | No                        |  |
| Corrosion protection                                   | Magnesium anode           | Magnesium anode           | Magnesium anode           |  |
| Water proof grade                                      | IPX4                      | IPX4                      | IPX4                      |  |
| Assembled System                                       |                           |                           |                           |  |
| Electric backup power (W)                              | 1200                      | 1200                      | 1200                      |  |
| Average input - heat pump only(W)                      | 240                       | 240                       | 240                       |  |
| Maximum input- heat pump only(W)                       | 350                       | 350                       | 350                       |  |
| Maximum power input (W)                                | 1550                      | 1550                      | 1550                      |  |
| Default temperature setting (°C)                       | 55                        | 55                        | 55                        |  |
| Temperature setting range with heater (°C)             | 35-75                     | 35-75                     | 35-75                     |  |
| Temperature setting range heat pump only (°C)          | 35-65                     | 35-65                     | 35-65                     |  |
| Refrigerant type / Weight (kg)                         | R134a/0.45                | R134a/0.45                | R134a/0.46                |  |
| Ozone Depletion Potential (ODP)                        | 0                         | 0                         | 0                         |  |
| Global Warming Potential (GWP)                         | 1430                      | 1430                      | 1430                      |  |
| Noise power dB(A)                                      | 50                        | 50                        | 50                        |  |
| Working temperature - heat pump only (°C)              | -7-45°C                   | -7-45 °C                  | -7~45 °C                  |  |
| Working temperature - system (°C)                      | -7~45℃                    | -7~45 °C                  | -7~45 °C                  |  |
| Performance  |                           |                           |                           |  |
| Type of extraction                                     | Exterior                  | Exterior                  | Exterior                  |  |
| COP@7°C (EN16147)                                      | 2.86                      | 2.74                      | 3.14                      |  |
| COP@14°C (EN16147)                                     | 3.17                      | 3.19                      | 3.58                      |  |
| Heating up time (h) (@7°C)                             | 4h58                      | 6h35                      | 10h29                     |  |
| Heating up time (h) (@14°C)                            | 4h09                      | 5h23                      | 8h28                      |  |
| Tapping cycle (EN16147)                                | M                         | M                         | L                         |  |
| Standby power input/ Pes(W) (@7°C)                     | 20                        | 20                        | 21                        |  |
| Maximum volume of usable hot water (L) V40 (EN16147)   | 109                       | 137                       | 193                       |  |
| Water heating energy efficiency class (ERP)            | A+                        | A+                        | A+                        |  |
| Dimensions and connections                             |                           |                           |                           |  |
| Water outlet connection                                | G1/2"M                    | G1/2"M                    | G1/2"M                    |  |
| Water intlet & Drain connection                        | G1/2"M                    | G1/2"M                    | G1/2"M                    |  |
| Safety valve connection                                | G1/2"M                    | G1/2"M                    | G1/2"M                    |  |
| Product Dimensions (D*W*H mm)(tank unit/external unit) | 492*537*1170              | 492*537*1320              | 492*537*1680              |  |
| Packing dimensions(D*W*H mm)(tank unit/external unit)  | 587*587*1247              | 587*587*1397              | 587*587*1764              |  |
| Gross weight (kg)                                      | 59                        | 64                        | 89                        |  |
| Net weight(kg)   | 51                        | 55                        | 67                        |  |
| Load qty.40HQ  | 160                       | 80                        | 80                        |  |



# HP200M3(EU) HP250M3(EU) HP250M3C(EU)



Under Photovoltaic system, you can set the product to optimize use of electricity produced



You can choose the heat pump to heat water under off-peak period to save cost



Micro channel and bottom coil heat exchanger with bigger contact surface to heat the water by whole condenser tank. The thermal efficiency will increase dramatically



Powerful compressor contribute to shorter heating up time



HP 250M 3C have a coil exchanger, can be connected with solar water heaters or gas boiler as backup power to maximum the energy saving









#### HIGH EFFICIENCY/ECONOMY

- A+ Energy Class
- ♦ COP is up to 3.56
- Multiple Energy Source Capability (HP250M3C only)
- ♦ High Performance Compressor
- Micro-Channel Condenser
- ♦ 50mm PUF Insulation
  - -7°C-45°C wide working temperature range

#### EASY OPERATION/MULTI-MODE OPTIONS

- ♦ Auto mode: heat pump can supply DHW anytime and electric heating element will auto work over heating time
- ♦ ECO mode: heat pump supply DHW based on set time or electric signal
- ♦ Vacation mode: saving energy by putting unit in a sleep mode on vacation

#### **EASY INSTALLATION**

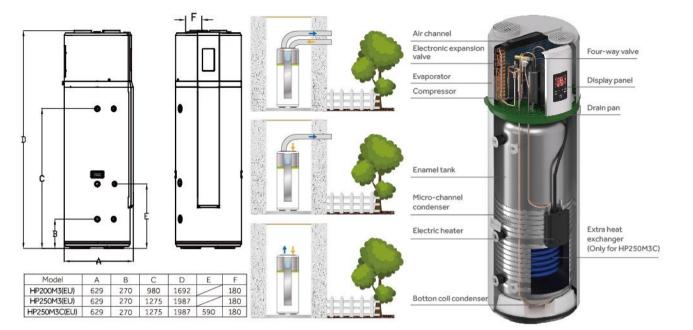
As a monoblock heat pump water heater, it can be easily installed to replace a traditional electric storage water heater with requiring gas connection. Compared with the split heat pump water heater, a monoblock is more flexible on choosing installation locations and saving installation cost! When installed in locations such as unfinished basement, a monoblock provides cooling

#### HEALTHY

For every 7 days, the ABT feature will raise tank water temperature to  $65^{\circ}\text{C}$  , to sanitize inner tank by killing 99% bacteria. Enjoy clean and healthy shower water with this automatic anti-bacteria technology







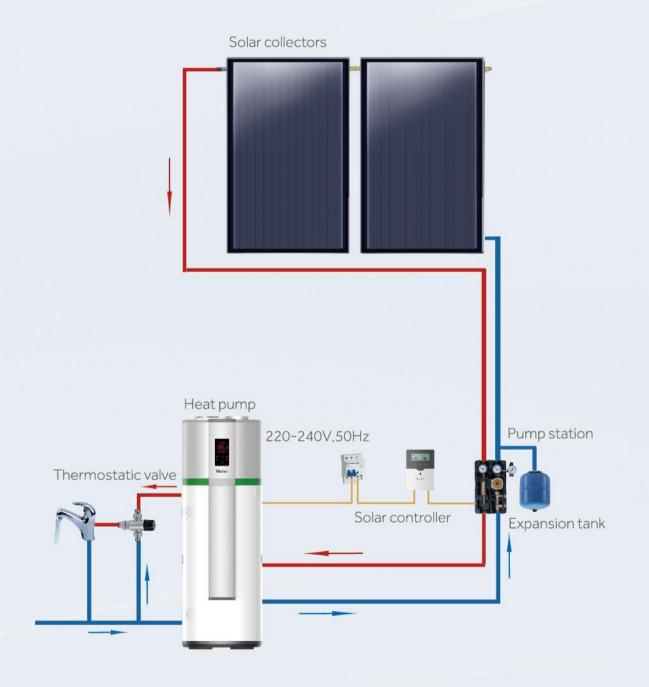
| Model   | HP200M3(EU)                             | HP250M3(EU)        | HP250M3C(EU)                                 |  |
|---|---|--------------------|--|--|
| Tank volume (L)                               | 195                                     | 246                | 240  |  |
| Rated voltage/ frequency (V/Hz)               | 230V/50Hz                               | 230V/50Hz          | 230V/50Hz                                    |  |
| Tank rated pressure (bar)                     | 7                                       | 7                  | 7  |  |
| Extra exchanger design / area                 | No                                      | No                 | 1m²  |  |
| Corrosion proof                               | Magnesium anode                         | Magnesium anode    | Magnesium anode                              |  |
| Assembled System                              | *************************************** |                    | - ( <del>- 7</del> / / ( ) - ( ) - ( ) - ( ) |  |
| Electric backup power (W)                     | 1500                                    | 1500               | 1500   |  |
| Average input - heat pump only(W)             | 495                                     | 495                | 495  |  |
| Maximum input- heat pump only(W)              | 865                                     | 865                | 865  |  |
| Maximum power input (W)                       | 2365                                    | 2365               | 2365   |  |
| Default temperature setting (°C)              | 55                                      | 55                 | 55   |  |
| Temperature setting range with heater (°C)    | 35-75                                   | 35-75              | 35-75  |  |
| Temperature setting range heat pump only (°C) | 35-65                                   | 35-65              | 35-65  |  |
| Refrigerant type / Weight (kg)                | R134a/0.9                               | R134a/0.9          | R134a/0.9                                    |  |
| Noise power db(A)                             | 57                                      | 58                 | 59   |  |
| Working temperature - system (°C)             | -7-45                                   | -7-45 -7-45        |  |  |
| Performance                                   |   |                    |  |  |
| Type of extraction                            | Ambient / Exterior                      | Ambient / Exterior | Ambient / Exterior                           |  |
| COP@7°C (EN16147)                             | 3.04                                    | 3.02               | 3.1  |  |
| COP@15°C (EN16147)                            | 3.39                                    | 3.41               | 3.56   |  |
| Tapping cycle (EN16147)                       | L                                       | L                  | L  |  |
| Standby power input/ Pes(W)                   | 27                                      | 27                 | 27   |  |
| Vmax  | 224                                     | 311                | 332  |  |
| Heating up time (h) (@7°C)                    | 5h30                                    | 7h21               | 6h55   |  |
| Heating up time (h) (@15°C)                   | 4h41                                    | 6h10               | 6h   |  |
| Dimensions and connections                    |   |                    |  |  |
| Product Dimensions (D*W*H mm)-Tank            | 600*629*1692                            | 600*629*1987       | 600*629*1987                                 |  |
| Packing dimensions (D*W*H mm)-Tank            | 736*695*1940                            | 736*695*2250       | 736*695*2250                                 |  |
| Gross weight (kg)-Tank/external unit          | 103                                     | 116                | 132  |  |
| Net weight (kg)-Tank/external unit            | 91                                      | 102                | 119  |  |
| Load gty.40HQ                                 | 51                                      | 51                 | 51   |  |
|   |   |                    |  |  |

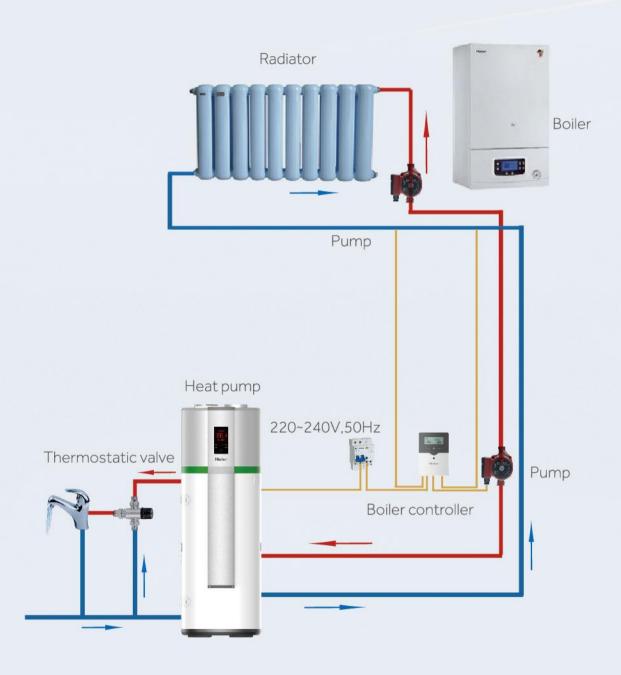
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Auto Defrost

# Connection to solar collectors(HP250M3C(EU))

# Connection to gas boiler(HP250M3C(EU))







# HP200S1(EU) HP300S1(EU)



Micro channel and bottom coil heat exchanger with bigger contact surface to heat the water by whole tank. The Micro-channel thermal efficiency will increase dramatically



Powerful compressor contribute to shorter heating up time

Under Eco mode, water is heated by



heat pump exclusively to maximize efficiency and economy



Monitors the operating temperature through multi-touch sensors and performs intelligent defrost on demand to prevents invalid operation. It is more effective and energy-saving than scheduled defrost

#### HIGH EFFICIENCY/ECONOMY

- A+ Energy Class
- ♦ COP is up to 3.8
- High Performance Compressor
- Micro-Channel Condenser
- 50mm PUF Insulation
- → -7°C-45°C wide working temperature range

#### EASY OPERATION/MULTI-MODE OPTIONS

- ♦ Auto mode: heat pump can supply DHW anytime and electric heating element will auto work over heating time
- ECO mode: heat pump supply DHW all the time, the electric heating element only is working in off-peak period
- ECO+ mode: heat pump only supply DHW in off-peak period and electric heating element is working in off-peak period
- Vacation mode: saving energy by putting unit in a sleep mode on

#### MORE HOT WATER

- 200L & 300L Capacity
- Maximum Volume of Usable Hot Water (L) V40 (EN16147) is Up to 382L (HP300S1).
- Maximum Water Temperature with Heat Pump Only is Up to 65°C

#### QUICK HEATING

- Under boost mode, heat pump and electric heating element (2150W power) will work together to supply DHW quickly
- Heating 300L of water only takes 4h45min (@7°C)











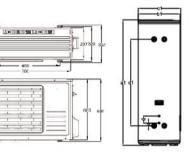












c1

1270

Model

a1 b1

HP300S1(EU) 1795 600 610 1242

HP200S1(EU) 1765 512 522





| Model  | HP200S1(EU)              | HP300S1(EU)              |  |
|--|--------------------------|--------------------------|--|
| Model (tank unit)                                      | TS200HE-S1               | TS300HE-S1               |  |
| Model (external unit)                                  | UE1.0-S1                 | UE1.5-S1                 |  |
| Tank volume (L)  | 195                      | 293                      |  |
| Rated voltage/ frequency (V/Hz)                        | 230V/50Hz                | 230V/50Hz                |  |
| Tank rated pressure (bar)                              | 8.5                      | 8.5                      |  |
| Extra exchanger design / area                          | No                       | No                       |  |
| Corrosion protection                                   | Magnesium anode          | Magnesium anode          |  |
| Water proof grade                                      | IPX4                     | IPX4                     |  |
| Assembled System                                       |                          |                          |  |
| Electric backup power (W)                              | 2150                     | 2150                     |  |
| Average input - heat pump only(W)                      | 665                      | 850                      |  |
| Maximum input- heat pump only(W)                       | 1000                     | 1350                     |  |
| Maximum power input (W)                                | 3150                     | 3500                     |  |
| Default temperature setting (°C)                       | 55                       | 55                       |  |
| Temperature setting range with heater (°C)             | 35-75                    | 35-75                    |  |
| Temperature setting range heat pump only (°C)          | 35-65                    | 35-65                    |  |
| Refrigerant type / Weight (kg)                         | R134a/1.3                | R134a/1.5                |  |
| Ozone Depletion Potential (ODP)                        | 0                        | 0                        |  |
| Global Warming Potential (GWP)                         | 1430                     | 1430                     |  |
| Noise power dB(A)                                      | 64                       | 64                       |  |
| Working temperature - heat pump only (°C)              | -7-45 C                  | -7-45 °C                 |  |
| Working temperature - system (°C)                      | -7-45℃                   | -7-45 °C                 |  |
| Performance  |                          |                          |  |
| Type of extraction                                     | Exterior                 | Exterior                 |  |
| COP@7°C (EN16147)                                      | 3.09                     | 3.2                      |  |
| COP@14°C (EN16147)                                     | 3.54                     | 3.8                      |  |
| Heating up time (h) (@7°C)                             | 4h03                     | 4h45                     |  |
| Heating up time (h) (@14°C)                            | 3h32                     | 3h49                     |  |
| Tapping cycle (EN16147)                                | L                        | XL                       |  |
| Standby power input/ Pes(W) (@7°C)                     | 28                       | 29                       |  |
| Maximum volume of usable hot water (L) V40 (EN16147)   | 245.1                    | 382.6                    |  |
| Water heating energy efficiency class (ERP)            | A+                       | A+                       |  |
| Dimensions and connections                             |                          |                          |  |
| Water outlet connection                                | G3/4"F                   | G3/4"F                   |  |
| Water intlet & Drain connection                        | G3/4"F                   | G3/4"F                   |  |
| Safety valve connection                                | G3/4"F                   | G3/4"F                   |  |
| Product Dimensions (D*W*H mm)(tank unit/external unit) | 544*512*1765/899*352*681 | 632*600*1795/899*352*681 |  |
| Packing dimensions(D*W*H mm)(tank unit/external unit)  | 676*636*1927/960*425*735 | 737*696*1958/960*425*735 |  |
| Gross weight (kg)                                      | 89/44                    | 112/48                   |  |
| Net weight (kg)  | 77/41                    | 98/44                    |  |
| Load qty.40HQ  | 59                       | 51                       |  |



| Model       |                                  | HP80M5(EU) | HP110M5(EU) | HP150M5(EU) |
|-------------|----------------------------------|------------|-------------|-------------|
|             | Electric Heating Element         | √          | <b>√</b>    | √           |
|             | Boost Heating Mode               | <b>√</b>   | √           | √           |
|             | LED Touch Control                | √          | <b>√</b>    | √           |
| Comfortable | Centrifugal Fan                  | √          | √           | √           |
|             | Connectable wind pipes           | √          | √           | √           |
|             | Extra exchanger design           |            |             |             |
| Healthy     | 65°C Tank Sterilization          | √          | √           | √           |
|             | Professional Compressor          | √          | √           | <b>√</b>    |
| Reliable    | Incoloy Heating Element          | √          | √ ·         | √           |
|             | Enamel tank                      | √          | √           | √           |
| Safe        | Patented Shock Proof             | √          | √           | √           |
| Efficient   | Patented Micro Channel Condenser | √          | √           | √           |
|             | Auto Defrost                     | √          | √           | <b>√</b>    |
| Smart       | PV                               | √          | <b>√</b>    | <b>√</b>    |
|             | Peak Valley Electricity Detect   | √          | <b>√</b>    | √           |
|             | Vacation mode                    | √          | √           | √           |



# **Installation Guidelines**

## M5 series installation guideline-Wind pipe

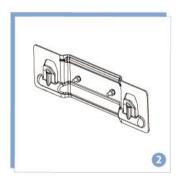


# M5 series installation guideline-Bracket





Select the installation wall (the load-bearing wall can bear at least 200KG), and drill two expansion screw holes on the wall, the distance between the expansion screw holes is 159mm.



Align the expansion screws with the mounting holes on the wall plate, tighten the expansion bolts and nuts, and the wall plate is installed.



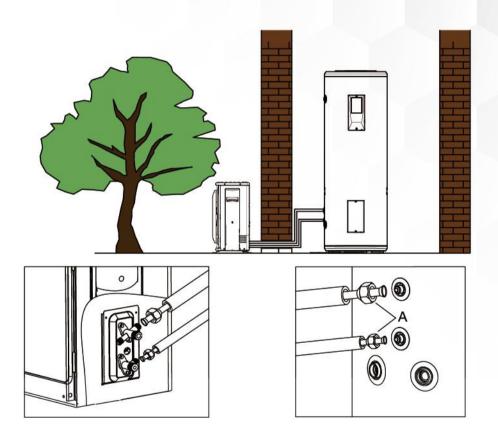
Lift the heat pump by two persons.

### M3 series installation guideline



# S1 series installation guideline-Refrigerant tube

- Shape the pipes according to the path;
- Remove the threaded brass flare nuts(A) on the tank unit and store them (check that no impurities are left);
- 3 Cut the pipe to the fixed length, with a pipe cutter, avoiding any deformation;
- Remove burrs with pipe reamer avoiding to get impurities inside (keep down the tube);
- 5 Insert the threaded brass flare nuts(A) on the pipes in the correct direction;
- Insert the tube into the flaring tool and make the flange at the end of the connecting pipe, as indicated in the table.



### Installation specification

| Tubo(non fornita)                 | Specificazione  | Spessore | Coppia di serraggio [Nm] |  |
|-----------------------------------|-----------------|----------|--------------------------|--|
| Tubo del refrigerante in ingresso | φ6.35 mm (1/4") | 0.8mm    | 15~20                    |  |
| Tubo refrigerante di uscita       | φ9.5 mm (3/8")  | 0.8mm    | 29~34                    |  |