

HEAT PUMP WATER HEATER



Haier



NEW 2024

WHAT IS AN HEAT PUMP WATER HEATER?

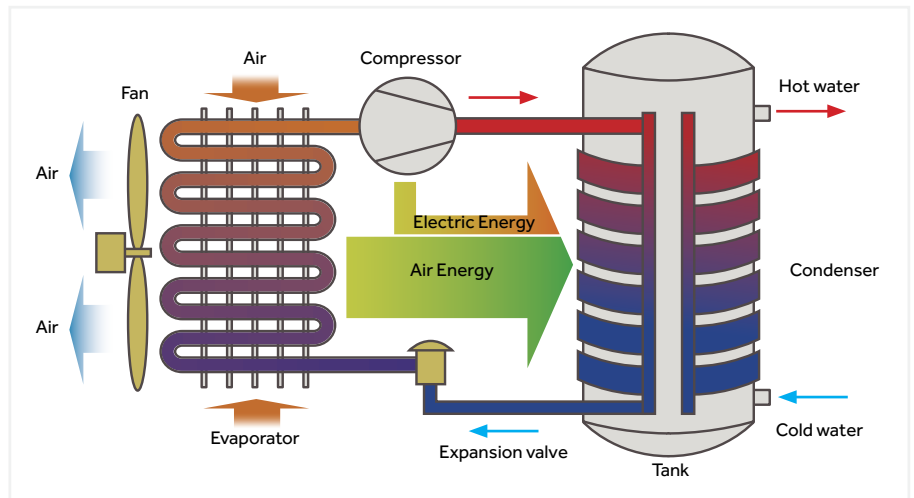
Our range of Heat Pump Water Heaters provides a direct solution to your hot water necessities. It combines the renewable energy of an aérothermal source with a storage capacity of 80-300 L, allowing adaptations to a wide range of applications ranging from small homes to light commercial scenarios. This system will provide domestic hot water at a fraction of the cost of older technologies, the installation = only involves water piping, therefore it is suitable for renewing previous hot water installations easily and conveniently. Furthermore in 2024 we introduced the new R290 Heat Pump Water Heater range which is both greener and more efficient.

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HOW IT WORKS?

To understand the concept of heat pumps, imagine a refrigerator working in reverse. While a refrigerator removes heat from an enclosed box and expels that heat to the surrounding air, a HPWH takes the heat from surrounding air and transfers it to water in an enclosed tank.

A refrigerant changes state, through compression and expansion cycles, absorbing the heat in the air at low temperature and transferring it to domestic water at a higher temperature.



CONDENSER DESIGN



MICRO-CHANNEL CONDENSER

The micro-channel condenser has larger contact surface for better heat transfer performance and less refrigerant consumption.



BOTTOM COIL

An extra coil fitted to the bottom of the tank increases the heat exchange area to deliver more hot water and contributes to better efficiency.

CONDENSER MICRO-CHANNEL VS COIL PIPE



Multiple channel design

Every piece of a micro-channel condenser has 18 micro-channels, which compared to the single-channel coil pipes offer much more contact surface.



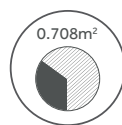
Titanium - aluminum alloy for better corrosion & heat resistances

Every piece of a micro-channel condenser has 18 micro-channels, which compared to the single-channel coil pipes offer more contact surface.



Reduces the pressure drop which improves compress efficiency by 6%

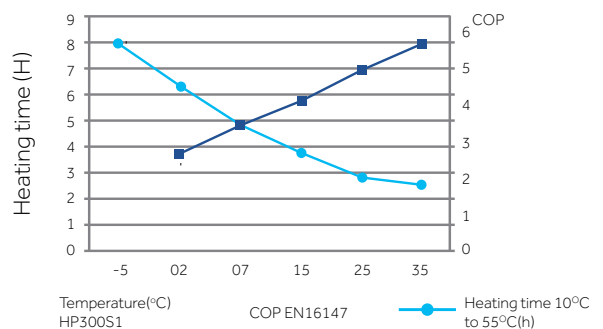
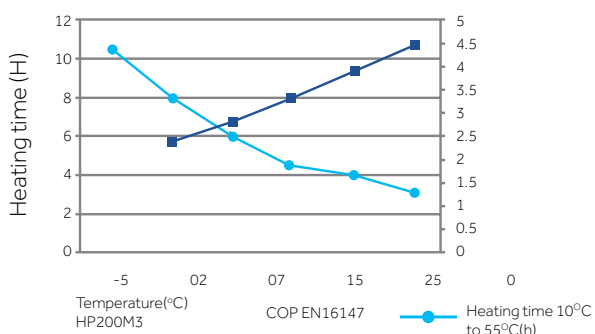
Micro-channel: pressure drop 0.03Mpa
Coil pipe: pressure drop 0.15Mpa








Larger contact surface improves heat transfer efficiency by 30%

Micro-channel: contact surface 0.708m²
Coil pipe: contact surface 0.236m²

PERFORMANCE CURVE



HPWH MODEL LINEUP

SERIES	MONOBLOC				SPLIT
	 M8 NEW	 M7 NEW	 M5	 M3	 S1
80L	●	-	●	-	-
110L	●	-	●	-	-
150L	●	-	●	-	-
200L	-	●	-	●	●
200L With Solar	-	●	-	-	-
250L	-	●	-	●	-
250L With Solar	-	●	-	●	-
300L	-	-	-	-	●

SERIES	MONOBLOC				SPLIT
Product Code	NEW M8 HP80M8-9 HP110M8-9 HP150M8-9	NEW M7 HP200M7-F9 HP200M7C-F9 HP250M7-F9 HP250M7C-F9	M5 HP80M5 HP110M5 HP150M5	M3 HP200M3 HP250M3 HP250M3C	S1 HP200S1 HP300S1
Description	<p>Monobloc type heat pumps are packaged equipment, which includes all hydraulic components. It consists of only one outdoor unit. The advantage of the monobloc system is easy installation and no additional refrigerant piping requirement.</p>				<p>Split type heat pumps consist of one outdoor unit and one indoor unit. The heat exchange between the refrigerant and water is finished in the heat exchanger of indoor unit.</p>
SG ready	●	●	-	-	●
Solar connection	-	● (200C & 250C)	-	● (250C)	-
Exhaust	●	●	●	●	-
hOn WiFi	●	●	-	-	-
Refrigerant	R290	R290	R134A	R134A	R134A
Max. water temperature	65°C	65°C	65°C	65°C	65°C
Energy rating	A+	A+	A+	A+	A+
Mute Mode	36dB(A)	36dB(A)	41dB(A)	41dB(A)	50dB(A)
COP @14°C	3,39	3,50	3,58	3,56	3,80
Micro channel condenser	●	●	●	●	●
Inverter	-	●	-	-	-
DC motor	●	●	-	-	-
Electr. Heater	1,200W	1,500W	1,500W	1,500W	2,150W
Smart defrost	●	●	●	●	●
Tank material	Enamel	Enamel	Enamel	Enamel	Enamel
Display	●	●	●	●	●
Modes	Auto, Eco, Boost, Vac	Auto, Eco, Boost, Vac	Auto, Eco, Boost, Vac	Auto, Eco, Boost, Vac	Auto, Eco, Eco+, Boost, Vac
Sterilisation	75°C	75°C	75°C	75°C	75°C

ECO R290 REFRIGERANT



R290 Refrigerant, More Eco-friendly

In order to achieve carbon neutrality and mitigate the impact of global warming, Haier is introducing a series air source heat pump water heaters using R290 natural refrigerant. This advanced household water solution, offer sustainable, green and comfortable hot water solutions.



Excellent Thermodynamic Performance

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

Higher Water Temperatures for Shower and Bacterial Proof

For Showers



For Bacterial Proof



Up to 65°C Water Temperature

The HPWH works alone to deliver water temperature as high as 65°C, and the water mixing rate at 40 °C can reach 130%*. The equivalent to 30% capacity increase, saving power and enjoying required hot water supply.



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.



MULTI-ENERGY CONNECTED

Multi-energy Connected

Combine with boiler, solar thermal, PV, save energy and reduce costs.



Solar Water Heater & Heat Pump Water Heater

Priority given to solar energy, which greatly reduces energy costs for users.

Gas Boiler & Heat Pump Water Heater

As a compensatory energy source for heat pumps to achieve higher water temperatures.



PV & Heat Pump Water Heater

Select PV power to save electricity cost.

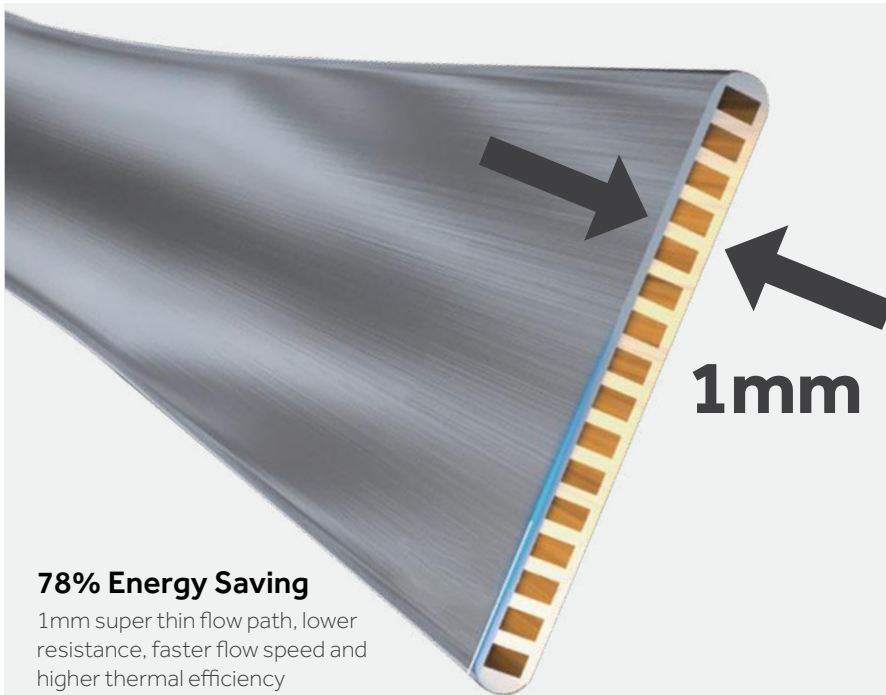


EFFICIENCY



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.



78% Energy Saving

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



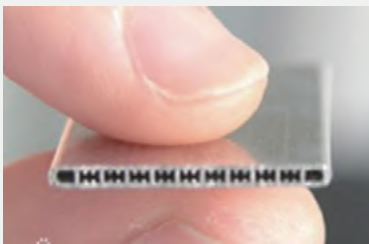
Increase heat transfer efficiency



Reduce power consumption



Improve Performance



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 an 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.



Dual Power Heating, Enables Faster Hot Water Production

The dual power heating mode of air energy and electric energy is adopted. The electric heating (1500W electric auxiliary) can be started at the same time to improve the heating efficiency in case of low temperature in the winter urgent need of a large amount of hot water, this achieves fast heating of the tank of water in a short time.



Smart Defrost, More Efficient and Energy Saving

Haier's 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.

Haier

When tested at 7/6°C, the evaporator's frosting condition.

OTHERS

When tested at 7/6°C, the evaporator's frosting condition.



A Quiet Home, A Comfortable Life

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



SMART & CONVENIENT

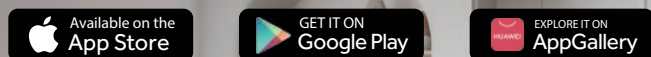


Connect and Control from Anywhere, Anytime

Haier's R290 range of 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.



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 will always be on

On your mobile device

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

88 Large Screen Display



Auto Mode

Automatically heats water to set temperature and maintains 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 if the heat pump is not working properly.



BOOST Mode

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



VAC Mode

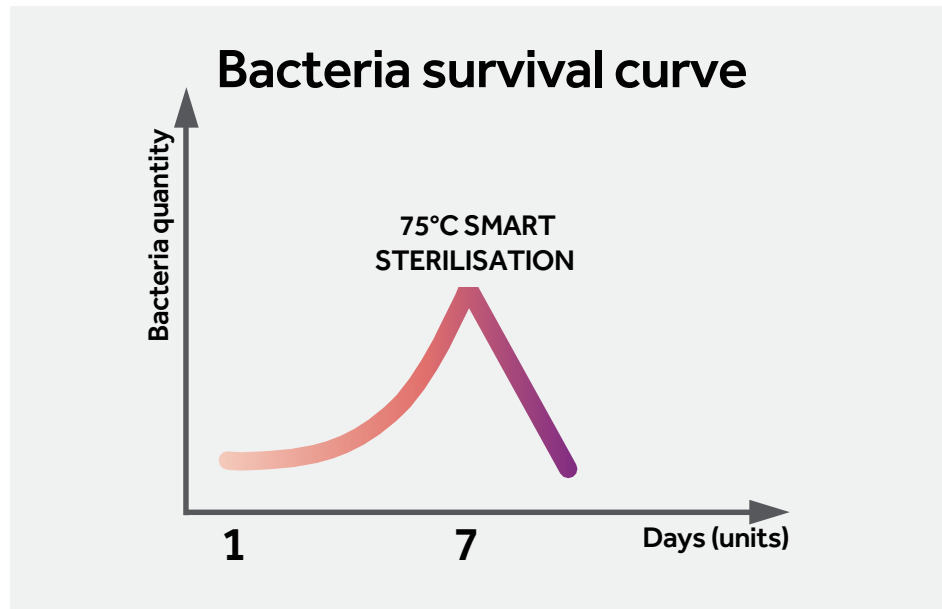
Maintains a minimum temperature to prevent freezing.

HEALTHY



75°C Smart Sterilisation

The system automatically heats the water once every 7 days by 75°C to sterilise against diseases such as legionella. During vacation the system will automatically sterilise the day before the end of the holiday.



HIGH QUALITY & 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 performance.



1

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.

2

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.

3

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.



Anti-Freeze

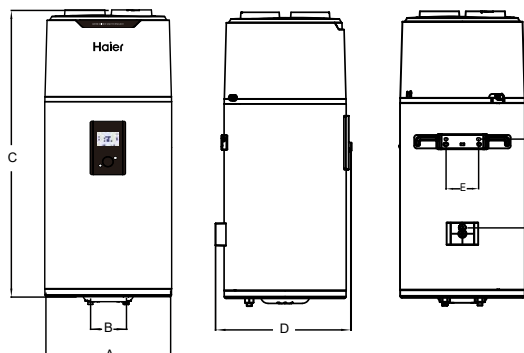
The Heat pump will auto heat to 15°C when the ambient temperature reaches below 2°C and the water temperature is below 7°C

R290 HPWH

M8 HPWH R290 NEW 2024



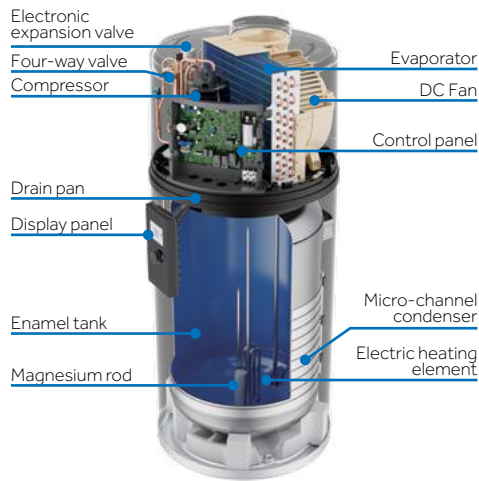
HP80M8-9 - HP110M8-9 - HP150M8-9



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

Unit: mm

M8 TECHNICAL PARAMETERS



FEATURES

- The R290 refrigerant offers excellent thermodynamic performance, allowing for higher water temperatures
- Full inverter technology and micro-channel condenser, resulting in lower energy consumption and higher heating efficiency
- Micro-channel condenser upgraded for R290 refrigerant
- Dual power heating, enables faster hot water production
- Equipped with a TFT screen and smart connectivity
- Easy installation, with simple design structure for wall mounting

Model		HP80M8-9	HP110M8-9	HP150M8-9
Tank volume	L	82	102	149
Rated voltage/ frequency	V/Hz	220-240/50	220-240/50	220-240/50
Tank rated pressure	bar	8	8	8
Corrosion protection		Magnesium rod	Magnesium rod	Magnesium rod
Water proof grade		IPX4	IPX4	IPX4
Performance				
Type of extraction		Ambient/Exterior	Ambient/Exterior	Ambient/Exterior
COP@7°C/EN16147		2.91	2.72	3.03
COP@14°C/EN16147		3.07	2.90	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
Dimensions 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 inlet connection		R1/2" M	R1/2" M	R1/2" M
Product dimensions	(mm)	492 × 537 × 1170	492 × 537 × 1320	492 × 537 × 1680
Packing dimensions without pallet	(mm)	587 × 587 × 1247	587 × 587 × 1397	587 × 587 × 1894
Packing dimensions with pallet	(mm)	/	/	587 × 587 × 1894
Net/Gross weight	kg	51/58	54/62	64/83



Micro-Channel Condenser



Up to 65°C



Dual Power Heat



Child Lock



36dB



hOn Wifi



Enamel Tank



*The COP and noise level data was tested in Haier lab.

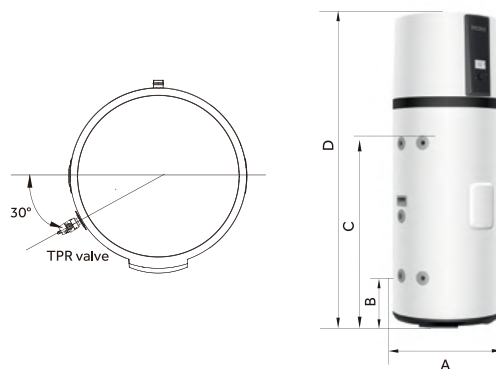
The COP values obtained with external air temperature of 7°C and 14°C, inlet water temperature of 10°C and set temperature of 55°C (according to EN 16147).

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M7 HPWH R290 NEW 2024



HP200M7-F9 - HP250M7-F9 - HP200M7C-F9 - HP250M7C-F9

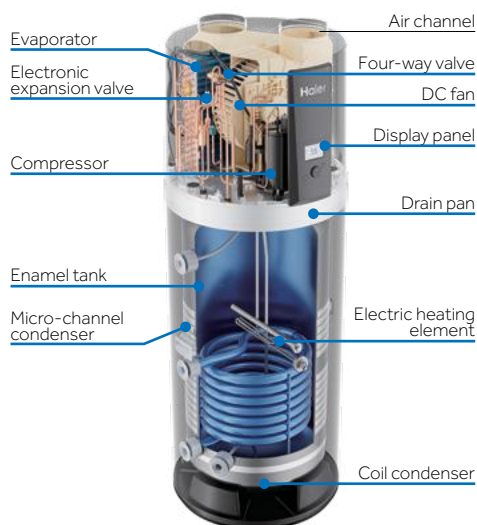


Model	A	B	C	D
HP200M7-F9	620	270	980	1694
HP250M7-F9	620	270	1275	1989
HP200M7C-F9	620	270	980	1694
HP250M7C-F9	620	270	1275	1989

Unit: mm

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M7 TECHNICAL PARAMETERS



FEATURES

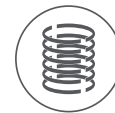
- The R290 refrigerant offers excellent thermodynamic performance, allowing for higher water temperatures
- Full inverter technology and micro-channel condenser, resulting in lower energy consumption and higher heating efficiency
- Micro-channel condenser pgraded for R290 refrigerant
- Dual power heating, enables faster hot water production
- Equipped with a TFT screen and smart connectivity
- Easy install

Model		HP200M7-F9	HP200M7C-F9	HP250M7-F9	HP250M7C-F9
Total cylinder capacity	L	194	185	250	240
Rated voltage/frequency	V/Hz	220-240/50	220-240/50	220-240/50	220-240/50
Tank Max pressure	bar	7	7	7	7
Thermal insulation	mm	50	50	50	50
Corrosion protection		Magnesium rod	Magnesium rod	Magnesium rod	Magnesium rod
Insulation protection rating		IPX4	IPX4	IPX4	IPX4
Performance					
COP@7°C(EN16147)		3.26	3.24	3.21	3.21
COP@14°C(EN16147)		3.50	3.50	3.45	3.45
Max air quantity	m ³ /h	300	300	300	300
Power input by electric backup	W	1500	1500	1500	1500
Rated power input by heat pump	W	320	320	320	320
Maximum power input by heat pump	W	535	535	535	535
Maximum power input	W	2035	2035	2035	2035
Heating water capacity	L/h	24	24	24	24
Heating up time(10°C/55°C)@7°C	h	7.8	6.71	10.51	10.09
Default temperature setting	°C	65	65	65	65
Temperature setting range-with heater	°C	35-75	35-75	35-75	35-75
Maximum temperature output for the heat pump only	°C	65	65	65	65
Refrigerant type/weight	kg	R290/0.15	R290/0.15	R290/0.15	R290/0.15
Noise power dB(A) @7°C	dB(A)	50	50	50	50
Sound pressure at 1m	dB(A)	36	36	36	36
V40 @7°C	L	234	229	313	314.4
Ambient temperature of heat pump	°C	-7-45	-7-45	-7-45	-7-45
Dimensions and connections					
Water inlet and outlet connection		Rp 3/4 Large Flow	Rp 3/4 Large Flow	Rp 3/4 Large Flow	Rp 3/4 Large Flow
TPR valve connection		Rp 3/4	Rp 3/4	Rp 3/4	Rp 3/4
Drain & water inlet connection		Rp 3/4	Rp 3/4	Rp 3/4	Rp 3/4
Product dimensions	(mm)	600 × 620 × 1694	600 × 620 × 1694	600 × 620 × 1989	600 × 620 × 1989
Packing dimension with pallet	(mm)	736 × 695 × 1940	736 × 695 × 1940	736 × 695 × 2250	736 × 695 × 2250
Net/gross weight	kg	86/109	96/119	98/121	107/131
Filled weight of the appliance	kg	281	282	345	348

*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).



R290



Micro-Channel Condenser



Up to 65°C



Dual Power Heat



Child Lock



36dB



hOn Wifi



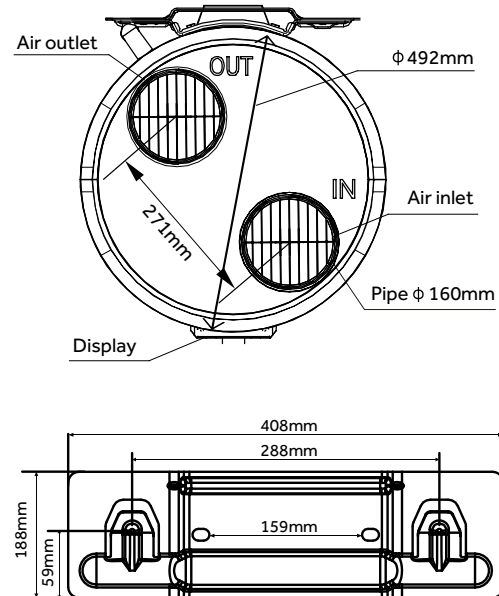
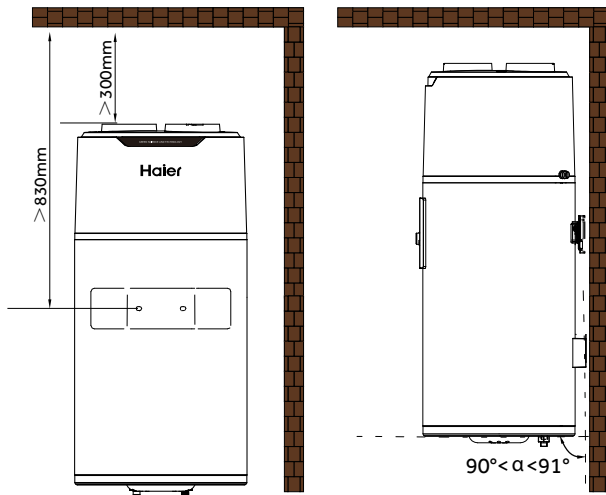
Enamel Tank



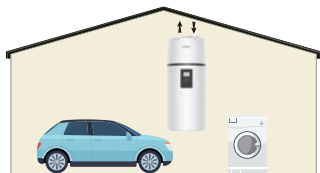
M8 INSTALLATION

Easy Install

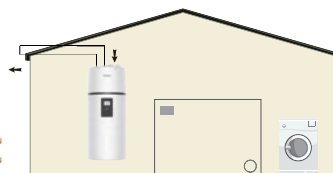
Smart hanger structure design, without complex actions, just fix the wall hanging board on the load-bearing wall, lift the machine, and align the back hanger with the wall hanging board to hang in, more convenient installation.



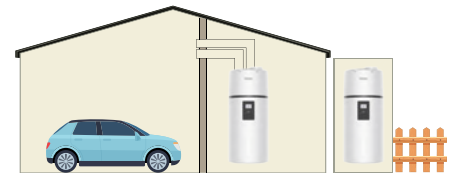
After the installation is completed, it is necessary to use a level ruler to check whether the support is maintained in a horizontal state.



Garage or laundry room (without ducts)



Laundry room (with one duct)



Habitable room or outside air (with two ducts)

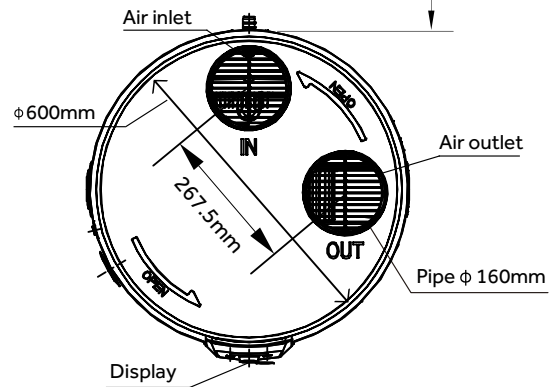
M7 INSTALLATION

Easy Install

Smart and simple wall mount design for easy installation. Simply fix the wall hanging board on the load-bearing wall, lift the machine in place, and align to the back hanger to hang in.



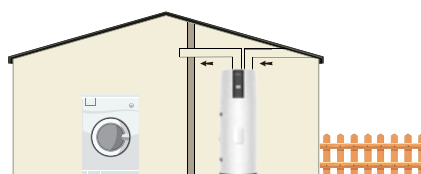
> 1000mm



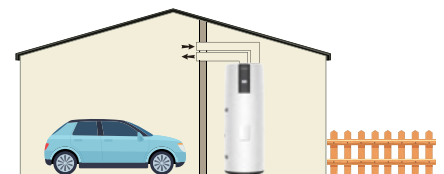
> 1000mm



Installation in an unheated room >15m²



Installation with 2 ducts to the outside



Installation with 2 ducts to an unheated room >15m²

Haier

R134A HPWH





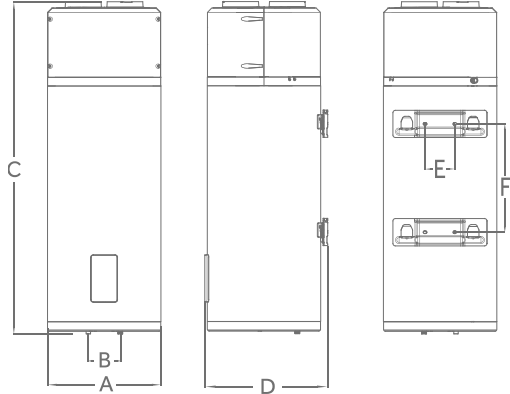
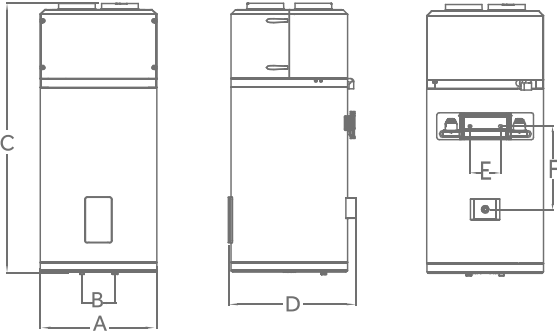


M5 HPWH R134A



HP80M5 - HP110M5

HP150M5



Model	A	B	C	D	E	F
HP80M5	492	140	1170	537	159	362
HP110M5	492	140	1320	537	159	362

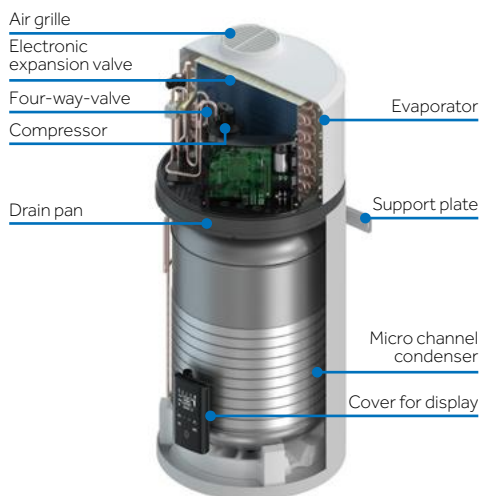
Unit:mm

Model	A	B	C	D	E	F
HP150M5	492	140	1680	537	159	470

Unit:mm

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M5 TECHNICAL PARAMETERS



FEATURES

- Under Photovoltaic system, you can set the product to optimize use of electricity produced
- Plug and play like a electric water heater, easy to install and replace
- Work under low tariff hours to help save on electricity costs
- Powerful compressors contribute to shorter heating up time
- Slim body design saves space

Model	HP80M5	HP110M5	HP150M5
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
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/0.45
Noise power dB(A)	50	50	50
Working temperature - heat pump only (°C)	-7-45	-7-45	-7-45
Working temperature - system (°C)	-7-45	-7-45	-7-45
Performance			
Type of extraction	Exterior	Exterior	Exterior
COP@7 °C (EN16147)	2.86	2.74	3.14
COP@14 °C (EN16147)	3.17	3.20	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
Maximum volume of usable hot water (L) V40 (EN16147)	102.5	132.6	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 inlet & 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 (WxHxD) (mm) Tank unit/external unit	537 × 1170 × 492	537 × 1320 × 492	537 × 1680 × 492
Packing dimensions (WxHxD) (mm) Tank unit/external unit	587 × 1247 × 587	587 × 1397 × 587	587 × 1764 × 587
Gross weight (kg)	59	64	64
Net weight (kg)	51	55	55
Load qty. 40HQ	160	80	80



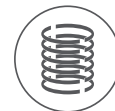
PV



Easy Install



ECO



Micro-Channel Condenser



Fast heating



Slim Body

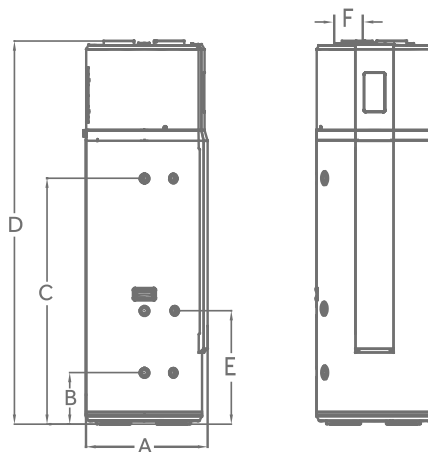


CE NF

M3 HPWH R134A



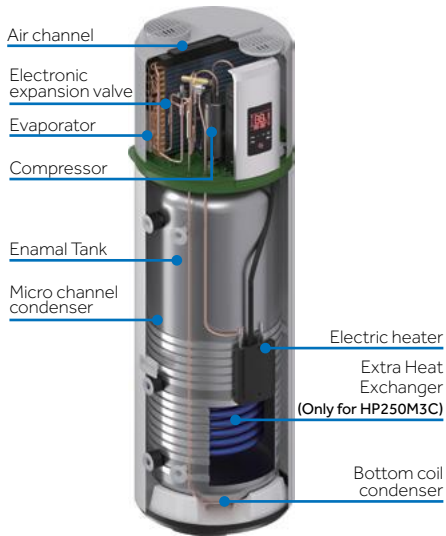
HP200M3 - HP250M3 - HP250M3C



Model	A	B	C	D	E	F
HP200M3	629	270	980	1692	-	180
HP250M3	629	270	1275	1987	-	180
HP250M3C	629	270	1275	1987	590	180

Unit:mm

M3 TECHNICAL PARAMETERS



FEATURES

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

Model		HP200M3	HP250M3	HP250M3C
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	1m ²
Corrosion proof		Magnesium anode	Magnesium anode	Magnesium anode
Performance				
Type of extraction		Ambient / Exterior	Ambient / Exterior	Ambient / Exterior
COP@7 °C (EN16147)		3.04	3.02	3.10
COP@15 °C (EN16147)		3.39	3.41	3.56
Tapping cycle (EN16147)		L	L	L
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	2325	2325	2325
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
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
Dimensions and connections				
Product Dimensions	WxHxD (mm)	629 × 1692 × 600	629 × 1987 × 600	629 × 1987 × 600
Packing dimensions	WxHxD (mm)	695 × 1940 × 736	695 × 2250 × 736	695 × 2250 × 736
Gross weight -Tank/external unit	kg	103	115	132
Net weight -Tank/external unit	kg	91	102	119
Load qty. 40HQ		51	51	51



PV



Easy Install



ECO



Micro-Channel Condenser



Fast heating



Slim Body

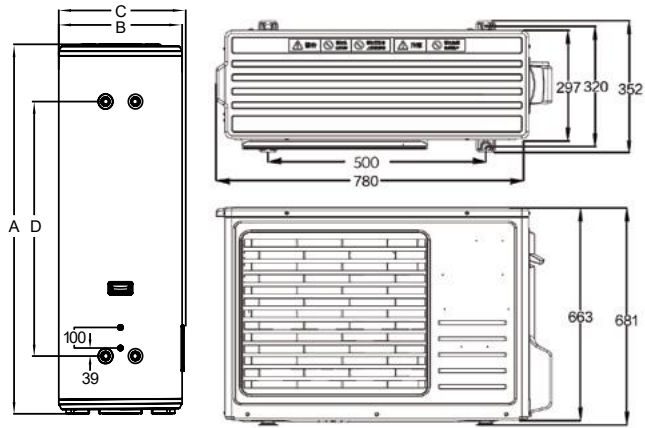


S1 HP R134A



A+
Energy Class

HP200S1 - HP300S1

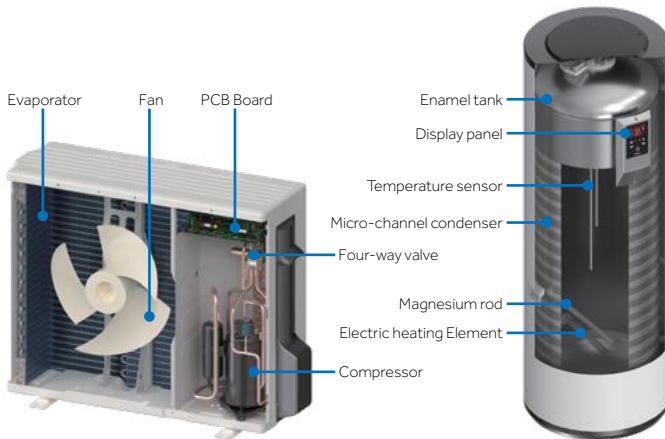


Model	A	B	C	F
HP200S1	1765	512	522	1270
HP300S1	1765	600	610	1242

Unit:mm

The data in this catalogue is purely indicative as the data may vary. Please be advised to check the accuracy of the data with the supplier before purchasing products.

S1 HP TECHNICAL PARAMETERS



FEATURES

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

Model		HP200S1	HP300S1
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
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
Noise power	dB(A)	64	64
Working temperature - heat pump only	°C	-7-45	-7-45
Working temperature - system	°C	-7-45	-7-45
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	4h49
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 V40 (EN16147)	L	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 inlet & Drain connection		G3/4" F	G3/4" F
Safety valve connection		G3/4" F	G3/4" F
Product Dimensions Tank unit/external unit	WxHxD (mm)	1765/899 × 352/681 × 544/512	1795/899 × 352/681 × 632/600
Packing dimensions Tank unit/external unit	WxHxD (mm)	1927/960 × 425/735 × 676/636	1958/960 × 425/735 × 737/696
Gross weight (kg)		89/44	112/48
Net weight (kg)		77/41	98/44
Load qty. 40HQ		60	51



Micro-Channel Condenser



Fast heating



ECO



Smart Defrost

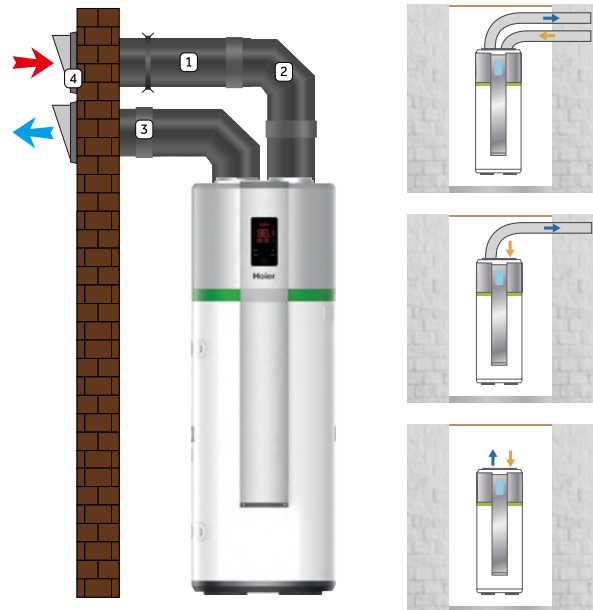


M5 & M3 INSTALLATION



M5 SERIES INSTALLATION

M3 SERIES INSTALLATION



Lift the heat pump by two persons.

The data in this catalogue is purely indicative as the data may vary. Please be advised to check the accuracy of the data with the supplier before purchasing products.

S1 INSTALLATION



S1 SERIES INSTALLATION REFRIGERANT TUBE

Step 1

Shape the pipes according to the path

Step 2

Remove the threaded brass flare nuts^(A) on the tank unit and store them (check that no impurities are left)

Step 3

Cut pipe to the fixed length, with a pipe cutter, Avoiding any deformation

Step 4

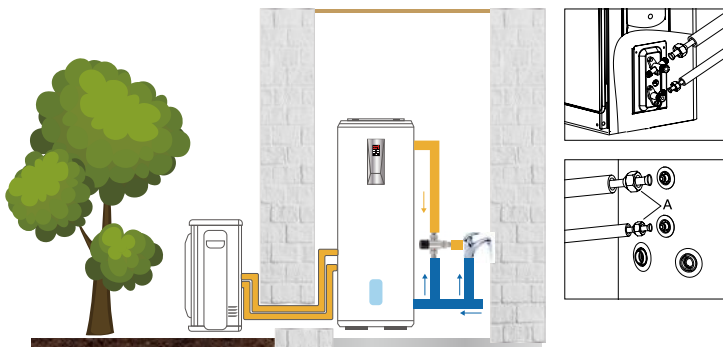
Remove burrs with pipe reamer avoiding to get impurities inside (keep down the tube)

Step 5

Insert the threaded brass flare nuts^(A) on the pipes in the correct direction

Step 6

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

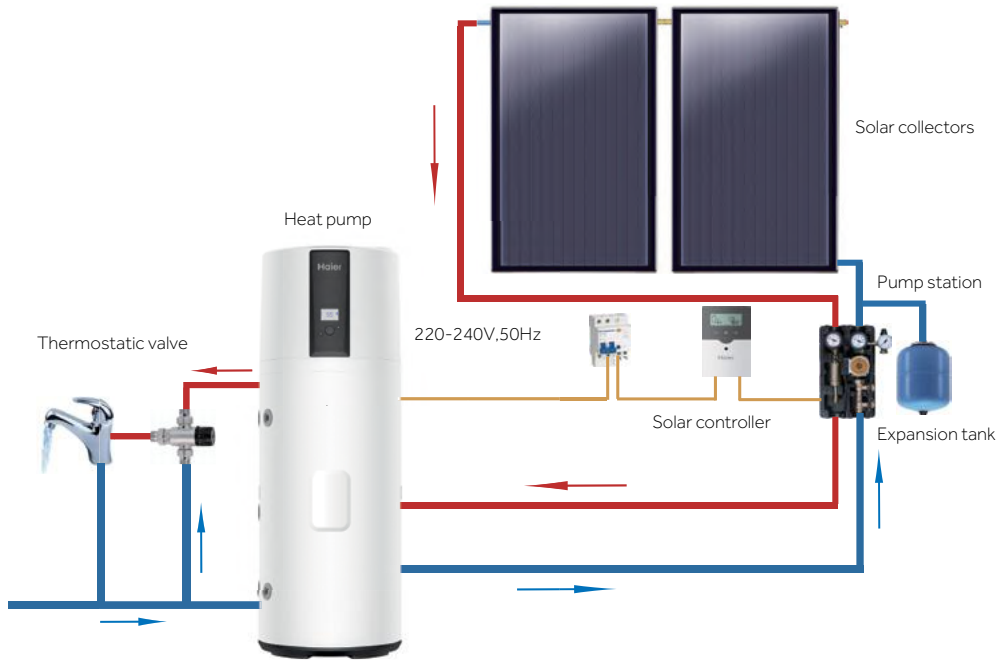
Tube*	Specification	Thickness	Tightening Torque [Nm]
Coolant Inlet Pipe	6.35mm (1/4")	0.8mm	15-20
Coolant Outlet Hose	9.5mm (3/8")	0.8mm	29-34

(*Tube Not Supplied)

CONNECTIONS

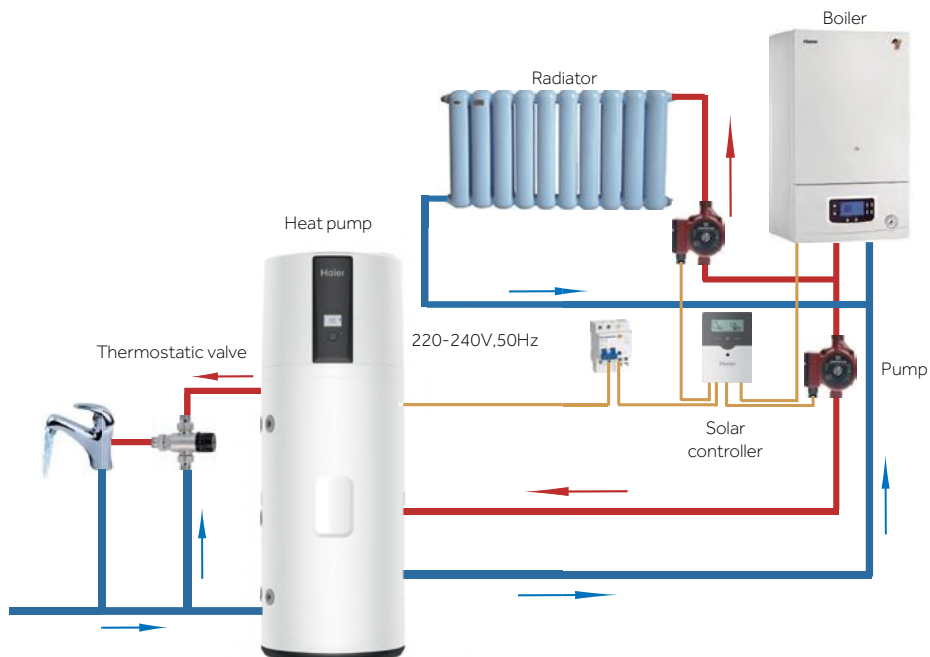
CONNECTION TO SOLAR COLLECTORS

HP200M7C-F9 – HP250M7C-F9 – HP250M3C



CONNECTION TO GAS BOILER

HP200M7C-F9 – HP250M7C-F9 – HP250M3C



CONTROL PANELS

MONOBLOC

5" LED display with simple and user friendly touch control allows access to the 4 working modes

AUTO MODE

The Heat pump will work in priority with the electric heater as a backup.

ECO MODE

The Heat pump uses off-peak electricity to minimise the expenses.

BOOST MODE

The Heat pump and electric heater starts up at same time to deliver hot water as fast as possible.

HOLIDAY MODE

The unit stays in stand by mode during the vacation and then restarts in auto mode to prepare enough hot water just one day before the user returns from vacation.

HP200M3
HP250M3
HP250M3C



SPLIT

5" LED display with simple and user-friendly touch control allows access to the 5 working modes

AUTO MODE

The Heat pump will work in priority with the electric heater as a backup.

ECO MODE

The Heat pump works 24 hours however the electric heater only works during off peak condition.

ECO MODE+

Both the Heat pump and electric heater only work under off peak conditions.

HOLIDAY MODE

The unit stays in standby mode during the vacation and then restarts in auto mode to prepare enough hot water just one day before the user returns from vacation.

BOOST MODE

The Heat pump and electric heater work at same time to deliver rapid hot water.

HP200S1
HP300S1

