SPECIFICATIONS

Model		MHS-SVC50(P2)-RN7L-B	MHS-SVC60(P2)-RN7L-B	MHS-SVC70(P2)-RN7L-B
Heating Capacity (A7W35)	KW	50	60	70
Heating COP (A7W35)	/	4.70	4.30	4.00
SCOP / Efficiency Rating (Average-35℃)	/	4.70/A+++	4.60/A+++	4.50/A+++
Cooling Capacity (A35W7)	KW	50	60	65
Cooling EER (A35W7)	/	3.30	3.00	2.80
Cooling ambient temperature	°C	-15-48		
Heating ambient temperature	°C	-25-43		
DHW ambient temperature	°C	-25-43		
Cooling supply water temperature	°C	-5-25 *		
Heating supply water temperature	°C	25-85		
DHW supply water temperature	°C	20-80		
sound power level (ErP-Low temperature)	dB(A)	80	84.4	86.4
Net Dimensions (W*D*H)	mm	2000*960*1880		
Floor space	m²	1.92		
Net weight	kg	560		

Note: Parameters are for reference only.
* Below 5°C, anti-freeze liquid is needed.

	Standard	Optional
Hydraulic module[1]	×	X*
Double plate exchanger[2]	Single-Wall	This unit
Appearance colour[3]	Starburst Grey	✓
Three-phase protector	×	✓
Water-side filter	×	✓
Centralized drainage	×	✓
Bottom plate electric heating	×	✓
Anti-corrosive customization[4]	×	✓

Notes:
1. Support Fix or linverter pump, the built-in water pump solution will be available at Q1 2025.
2. Support directly use for DHW
3. For more colors, please consult us.
4. For more details, please consult us.
*Can not be customized when choosing the Double-Wall PHE option.

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Mars Large series

R290 All Inverter
Commercial Heat Pump
50/60/70 kW
Double-Wall PHE Optional

SAA APPROVALS® · WaterMark™

MAIN FEATURES

All DC Inverter

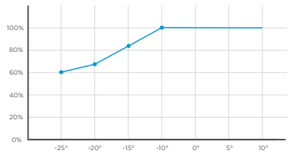
- High efficiency for energy saving
- Precise consumption on real load & Quick start-up and less frequent start/stop

Environment friendly

- R290 refrigerant: GWP<3

Strong Heat in Low Temperature

- 100% heating capacity at -10 °C
  ⩾ 80% heating capacity at -15 °C
  ⩾65% heating capacity at -20 °C
  ⩾60% heating capacity at -25 °C



Efficiency Rating A+++

- All models (Average-35°C) ErP efficiency rating A+++.
  Energy saving and high efficiency, green and low carbon.

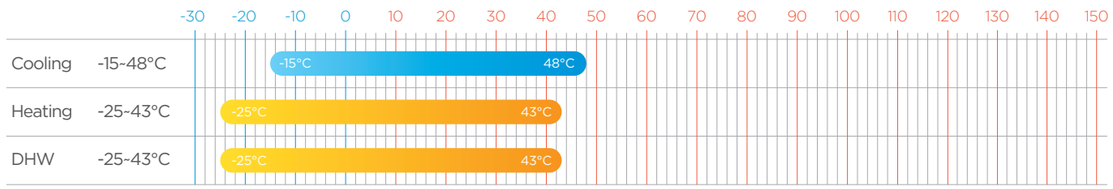
Dual-Compressor System & Dual PHE

- Dual refrigerant flow paths for back-up
- Two PHE for this optional

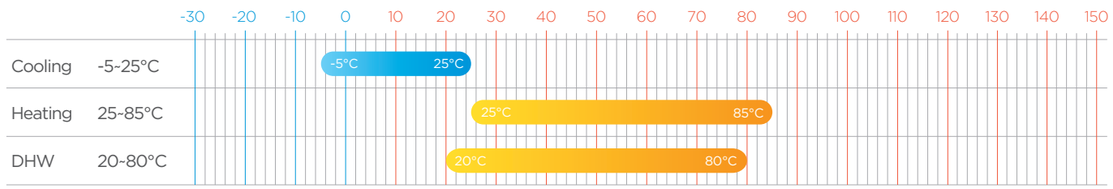
APPLICATION

Wider water temperature range & Higher capacity

Operation ambient temperature



Supply Water Temperature Range



It can be matched with different kinds of terminals to meet the requirements of a variety of scenarios

Fan coil unit

Radiator

Floor heating loop

Water tank

Spacing cooling

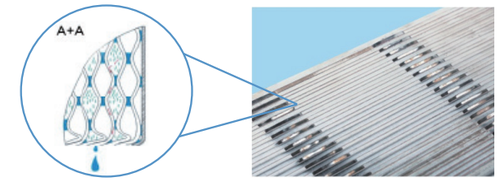
Spacing heating

Hot water

Benefits for Double-Wall PHE

Double-Wall PHE

- 316L stainless steel;
- Double gap between water and refrigerant;
- Water and refrigerant will not mix, ensuring the safety of the water usage for Mars Large.

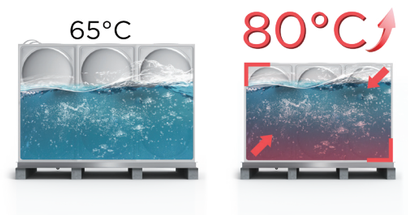


Refrigerant will not mix with water

Refrigerant leak window

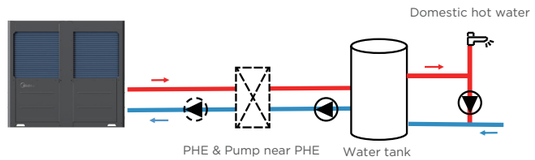
Save cost at water tank

By using an 80-degree high-temperature water supply for water tank, it can provide hotter water. When mixing cold water, less high-temperature water can be used with cold water to achieve the setting usage temperature. And the size of the water tank can be reduced.



Save on installation costs & space

The PHE & water pump near the PHE can be saved on the water circuit; This option also provides more installation space, accommodating smaller installation scenarios.



*The dashed part can be omitted

High Reliability Design

The electric control box is explosion-proof. The water-side exhaust valve is also designed to avoid freezing.

Intelligent anti-freezing software design avoids freezing and cracking in water pipes.

Porous grooves and centralized drainage plus bottom plate electric heating to avoid ice build-up.

The core components of the control board, such as varistors and relays, are explosion-proof.

The entire unit meets the requirements for three-level explosion protection and is certified by Intertek for refrigerant concentration testing.

Modular design, flexible installation

Unit modules of different capacities can be combined freely, and up to 8 units can be connected in parallel.

A maximum of 8 units can be connected in parallel

Wire controller

- Dot matrix LCD screen
- Mute mode setting
- Weekly time, daily time
- Standard with 485 interface
- Modbus function

- When the heating/cooling/DHW (domestic hot water) modes coexist, you can set the hot water making operation to be preferred
- Multiple units in parallel, the slave can be set up to make hot water separately