SPECIFICATIONS

Model			MHS-SVC50(P2)-RN7TL-C	MHS-SVC60(P2)-RN7TL-C	MHS-SVC70(P2)-RN7TL-C
Heating A7W35	Capacity	kW	50.00	60.00	70.00
	Rated input	kW	10.64	13.95	17.50
	COP		4.70	4.30	4.00
Refrigerant	Type		R290	R290	R290
	Factory charged	(kg)	3.2*2	3.2*2	3.2*2
Rated water flow	m^3/h		8.60	10.32	12.00
Water flow range	m^3/h		1.8-10.3	1.8-12.4	1.8-14.4
Ambient temperature range	Heating	℃	-25-43	-25-43	-25-43
	DHW	℃	-25-43	-25-43	-25-43
Water setting temperature setting range	Heating	℃	25-85	25-85	25-85
	DHW	℃	20-80	20-80	20-80
Return water temperature range	Heating	℃	20-75	20-75	20-75
	DHW	℃	15-75	15-75	15-75
Safety valve	MPa		0.60	0.60	0.60
Flow switch	m^3/h		1.20	1.20	1.20
Unit dimension (W×H×D)	mm		960x1880x2000	960x1880x2000	960x1880x2000
Packing dimension (W×H×D)	mm		1030x2050x2085	1030x2050x2085	1030x2050x2085
Net weight	kg		630	630	630
Gross weight	kg		655	655	655

	Standard	Optional
Hydraulic module	×	×
Appearance colour[1]	Starburst Grey	✓
Three-phase protector	✓	×
Water-side filter	×	✓
Centralized drainage	×	✓
Bottom plate electric heating	×	✓
Anti-corrosive customization[2]	×	✓

Notes:
1. For more colors, please consult us.
2. For more details, please consult us.

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Midea reserves the right to change the specifications of the product, and to withdraw or replace products without prior notification or public announcement.
Midea is constantly developing and improving its products.





Mars Large series

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

MAIN FEATURES

All DC Inverter

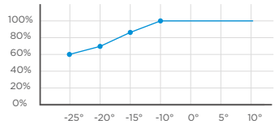
- High efficiency for energy saving
- Precise consumption on real load & Quick start-up and less frequent start/stop

Efficiency Rating A+++

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

Strong Heat in Low Temperature

- 60 Unit:



100% heating capacity at -10 °C
⩾ 85% heating capacity at -15 °C
⩾70% heating capacity at -20 °C
⩾60% heating capacity at -25 °C

Environment friendly

- R290 refrigerant: GWP=0.02

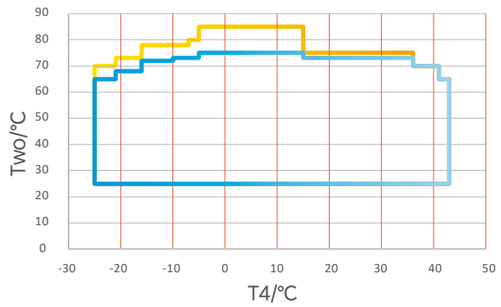
Dual-Compressor System & Dual PHE

- Dual refrigerant flow paths for back-up

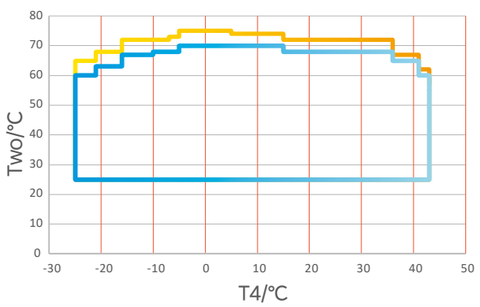
APPLICATION

Wider water temperature range & Higher capacity

Heating Water Temperature Range



DHW 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 heating



Domestic hot water

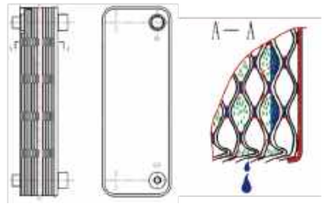
ADVANCED CONFIGURATIONS

High-efficiency water-side plate heat exchanger

Heat exchanger multi-plate formed between the multi-layer thin rectangular channel, heat transfer area increased significantly, greatly improving the heat transfer efficiency, reduce heat loss.

Water-side heat exchanger with double-wall construction.

In the event of heat exchanger leakage, refrigerant does not come into direct contact with domestic hot water, providing an extra layer of protection.



High Reliability Design

Triple explosion-proof E-box (sealed enclosure, explo sion-proof housing/wiring, explosion-proof components). Micro-bubble valve on outlet pipe separates leaked R290 from water.

Refrigerant sensor below E-box monitors R290—triggers unit shutdown & forced ventilation if fire risk detected. 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.
Components feature explosion-proof design and are CE-certified.

Easy maintenance

All the panels of the four sides can be taken off for service.
M1 gateway compatible; OTA upgradable.
No need to carry any other heavy equipment but only USB can realize program upgrade of outdoor unit.





Modular design, flexible installation

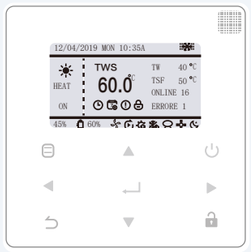
Unit modules of di erent capacities can be combined freely, and up to 8 units can be connected in parallel, supporting 16 independent systems.



A maximum of 8 units can be connected in parallel

Wire controller

- User / Service / Install
- Sub. Heat
- Modbus
- Power-off Memory
- Silent Mode
- Vacation Mode
- Power Limit Mode
- Timer



- Sub-units can independently produce hot water (when in multi-pump mode).