SPECIFICATIONS

Outdoor unit model name			MHS-SVC50-RN7TL-C	MHS-SVC60-RN7TL-C	MHS-SVC70-RN7TL-C
Heating (A7W35)	Capacity	KW	50	60	70
	COP	/	4.70	4.30	4.00
SCOP/Efficiency Rating	Water outlet at 35°C	/	4.7/A+++	4.6/A+++	4.5/A+++
	Water outlet at 55°C	/	3.9/A+++	3.85/A+++	3.76/A++
Cooling (A35W7)	Capacity	KW	50	60	65
	EER	/	3.30	3.00	2.80
Outdoor air temperature range	Cooling	°C	-15-48		
	Heating	°C	-25-43		
	DHW	°C	-25-43		
Water outlet temperature setting range	Cooling	°C	-5-25*		
	Heating	°C	25-85		
	DHW（tank）	°C	20-80		
sound power level (ErP-Low temperature)		dB(A)	79.4	84.2	86.4
Unit dimension (W×H×D)		mm	960*1880*2000		
Floor space		m^2	1.92		
Net weight		Kg	560		

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

	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.





R290 All Inverter
Commercial Heat Pump
50/60/70 kW

Mars Large series

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=0.02

Efficiency Rating A+++

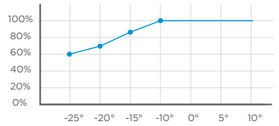
- All models (Average-35°C) ErP efficiency rating A+++.
  Energy saving and high efficiency, green and low carbon.

Dual-Compressor System & Dual PHE

- Dual refrigerant flow paths for back-up

Strong Heat in Low Temperature

- 60 Unit:

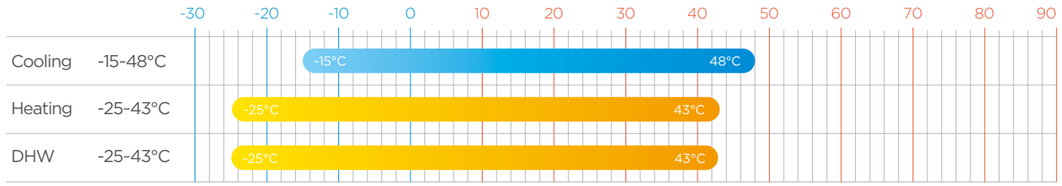


100% heating capacity at -10 °C
⩾ 85% heating capacity at -15 °C
⩾70% heating capacity at -20 °C
⩾60% heating capacity at -25 °C

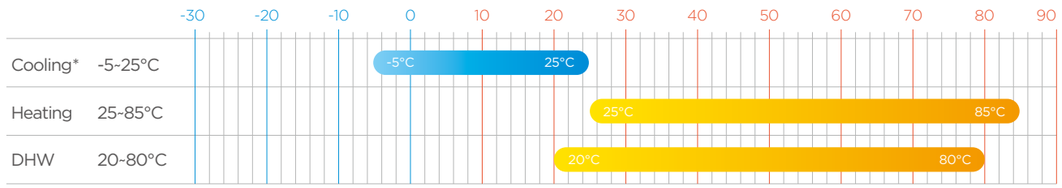
APPLICATION

Wider water temperature range & Higher capacity

Operation ambient temperature



Supply Water Temperature Range



*For cooling mode, if water outlet temperature is lower than 5°C, anti-freeze liquid is needed.

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



Fan coil unit



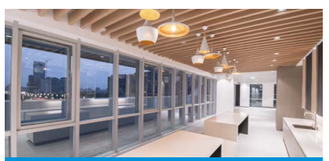
Radiator



Floor heating loop



Water tank



Spacing cooling



Spacing heating

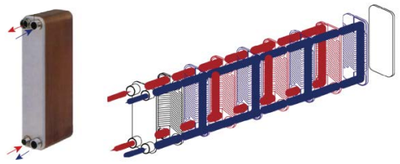


Domestic hot water

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



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).



Midea Mars Large Commercial Heat Pump European Reference Project Map

