

SPECIFICATIONS



Model		50kW	60kW	70kW
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	℃	-15-48		
Heating ambient temperature	℃	-25-43		
DHW ambient temperature	℃	-25-43		
Cooling supply water temperature	℃	-5-25 *		
Heating supply water temperature	℃	25-85		
DHW supply water temperature	℃	20-80		
sound power level (ErP-Low temperature)	dB(A)	80	84.4	86.4
Net Dimensions (LxWxH)	mm	2000*960*1880		
Floor space	m²	1.92		
Unit weight	kg	560		

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

	Standard	Optional
Hydraulic module¹	×	✓
Double-Wall plate exchange²	Single-Wall	✓
Bottom plate electric heating	×	✓
Appearance colour³	Starburst Grey	✓
Three-phase protector	×	✓
Water-side filter	×	✓
Centralized drainage	×	✓
Bottom plate electric heating	×	✓
Anti-corrosive customization	×	✓

- Notes:
- Support Fix or Inverter pump, the built-in water pump solution will not be available until the end of this year.
 - Support directly use for DHW
 - For more colors, please consult us.
 - For more details, please consult us.

Midea Building Technologies Division
Midea Group

1CPD202409

Add.: Midea Headquarters Building, 6 Midea Avenue, Shunde, Foshan, Guangdong, China

Postal code: 528311

mbt.midea.com.cn / mbt.midea.com/global

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

- Natural refrigerant: GWP≈0



Strong Low-temperature Heating

- By effectively controlling the exhaust temperature of the compressor, the compression ratio can be improved, the water temperature can be expanded up to 85°C, and the heating effect can be significantly improved. When the ambient temperature maintained between -5°C and 10°C, the maximum water supply temperature can also be maintained at 85°C.



Efficiency Rating A+++

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



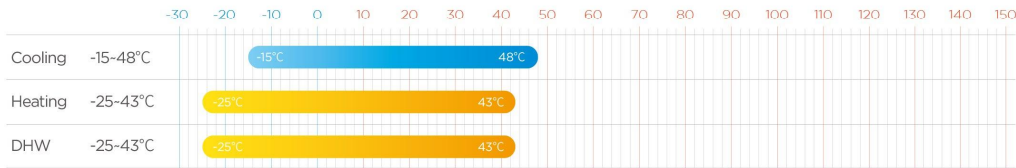
Dual-Compressor System

- Dual refrigerant flow paths for back-up

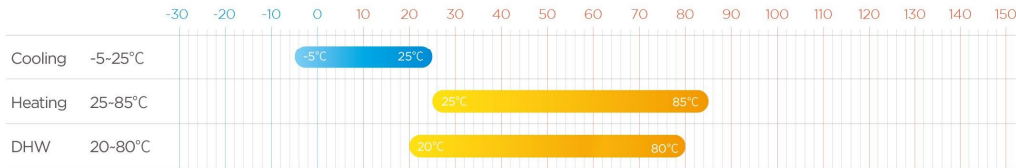
APPLICATION

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

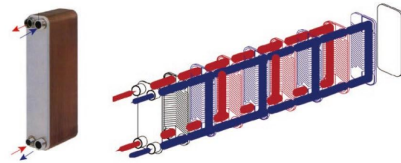


Hot water

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

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.

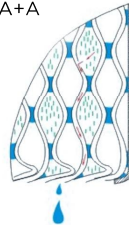
The entire unit meets the requirements for three-level explosion protection and is certified by Intertek for refrigerant concentration testing.

*Double-Wall plate exchange

Using 316L stainless steel;

By configuring an observation port, it is possible to effectively observe the rare occurrence of plate leakage. This allows for timely replacement of the heat exchanger, making the operation of Mars Large safer.

A+A



Easy maintenance

All the panels of the four sides can be taken off for service.

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 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



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.