

Specifications

| Model name | | | MHC-V35WD2RN7 | MHC-V30WD2RN7 | MHC-V26WD2RN7 |
|--|----------------------|---------|----------------------|---------------|---------------|
| Heating (A7/W35) | Capacity | kW | 35.0 | 30.0 | 26.0 |
| | Rated input | kW | 8.43 | 6.67 | 5.45 |
| | COP | | 4.15 | 4.50 | 4.77 |
| Cooling (A35/W18) | Capacity | kW | 35.0 | 30.0 | 26.0 |
| | Rated input | kW | 8.82 | 6.80 | 5.60 |
| | EER | | 3.97 | 4.41 | 4.64 |
| Seasonal space heating energy efficiency class | Water outlet at 35°C | ηs | 184.9% | 198.6% | 195.7% |
| | | class | A+++ | A+++ | A+++ |
| | | SCOP | 4.70 | 5.04 | 4.97 |
| Power supply | | V/Ph/Hz | 380-415/3/50 | | |
| Compressor | Type | | Scroll Type | | |
| Outdoor fan | Motor type | | DC brushless motor | | |
| | Number of fans | | 2 | | |
| | Air flow | m³/h | 10500 | | |
| Air side heat exchanger | Type | | Finned tube | | |
| Water side heat exchanger | Type | | Plate heat exchanger | | |
| Connection of water side | Dimension | mm | DN25 | | |
| | Method | | Threaded connection | | |
| Water pump | Type | | Canned-motor pump | | |
| | Max. pump head | m | 12 | | |
| Expansion vessel | Volume | L | 8 | | |
| | Charge pressure | MPa | 0.15 | | |
| Safety valve | | MPa | 0.3 | | |
| Water flow range | | m³/h | 0.87-7.20 | | |
| Refrigerant | Type | | R290 | | |
| | Charged volume | kg | 2.9 | | |
| Throttle type | | | EEV | | |
| sound power Level ¹ | Heating A7/W35 | dB(A) | 76.4 | | |
| | Cooling A35/W18 | dB(A) | 76.3 | | |
| Unit dimension (W×H×D) | | mm | 1384*1816*523 | | |
| Packing dimension (W×H×D) | | mm | 1465*1986*560 | | |
| Net/Gross weight | | kg | 245/265 | | |
| Outdoor air temperature range | Cooling | °C | -15 ~ 48 | | |
| | Heating | °C | -25 ~ 35 | | |
| | DHW | °C | -25 ~ 46 | | |
| Water outlet temperature setting range | Cooling ² | °C | 0 ~ 25 | | |
| | Heating | °C | 25 ~ 85 | | |
| | DHW | °C | 20 ~ 75 | | |

Note:

1. Parameters may change with product updates, based on the machine nameplate.

2. Antifreeze liquid is needed when water outlet temperature reaches 5°C.

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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.

GD MIDEA Heating & Ventilating Equipment Co. Ltd participates in the ECP programme for LCP-HP. Check ongoing validity of certificate: www.eurovent-certification.com



Mars Series

R290 All Inverter

Air Source Heat Pump





Efficient and Versatile

- Product capability: 26/30/35 kW
- Minimum operating ambient temperature: -25°C
- Maximum outlet water temperature: 85°C
- Maximum DHW (domestic hot water) temperature : 70°C
- Energy efficiency ratings of A+++ (at 35°C water outlet temperature)
- Energy efficiency ratings of A++ (at 55°C water outlet temperature)



Environmentally friendly

Natural Refrigerant R290



- Much lower GWP value to meet EU carbon neutrality
- No ozone depletion potential
- Excellent thermodynamic performance
- Great thermal efficiency for most conditions

GWP=3

Lower impact on global warming

ODP=0

Neutral for the ozone layer



Easy to use

Color-screen Smart Controller

- A temperature display that is accurate to $\pm 0.1^\circ\text{C}$ and has a high resolution
- Multiple operating modes including heating, cooling, and DHW (domestic hot water)
- Timing options for daily and weekly schedules to meet different needs



Daily timer



Silent mode



Holiday mode



Disinfection



Water pump



Weekly timer



Defrost



Anti-freezing function



Advanced configurations

Inverter Water Pump

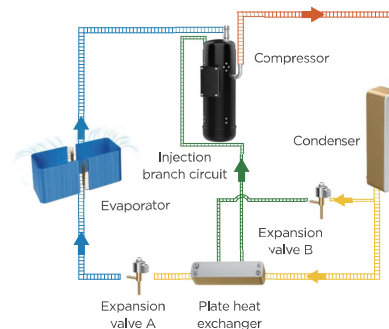
- Adaptive adjustment to the optimal target temperature difference
- Combine efficiency with user comfort
- The power consumption of water pump transmission and distribution can be reduced by 70%

Inverter Fan and Compressor

- Precise water temperature control ($\pm 0.1^\circ\text{C}$)
- Adaptive and efficient operation throughout the operating range

R290 Dedicated Inverter EVI Scroll Compressor

- Low temperature heating performance improved by 20%
- Condensation temperature is up to 85°C, and the unit has a higher outlet water temperature



EVI(Enhanced vapor injection) technology

- Increase refrigerant circulation of heat pump at low ambient temperature
- Improve low temperature heating capacity and energy efficiency

Discharge superheat degree
Suction superheat degree

Main valve

Discharge temperature
Injection pressure

Auxiliary valve

Discharge Temperature Control Technology through Gas-Liquid Mixture Injection

- Control the proportion of liquid injection to ensure that the exhaust temperature is controlled within 110°C
- When the unit runs at -15°C ambient temperature, the outlet temperature can reach 85°C
- When the unit runs at -25°C ambient temperature, the outlet temperature can reach 75°C