Specifications

Model name			MHC-V26WD2RN7	MHC-V30WD2RN7	MHC-V35WD2RN7	MHC-V40WD2RN7
Heating (A7/W35)	Capacity	kW	26.0	30.0	35.0	39.0
	Rated input	kW	5.45	6.67	8.40	10.54
	COP		4.77	4.50	4.17	3.70
Cooling (A35/W18)	Capacity	kW	26.0	30.0	35.0	39.0
	Rated input	kW	5.60	6.80	8.50	9.85
	EER		4.64	4.41	4.12	3.96
Seasonal space heating energy efficiency class	Water outlet at 35°C	ηs	194.9%	193.8%	176.3%	169.7%
		class	A+++	A+++	A+++	A++
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	DN32			
	Method		Threaded connection			
Water pump	Type		Canned-motor pump			
	Max. pump head	m	12			
Expansion vessel	Volume	L	5			
	Charge pressure	MPa	0.8			
Safety valve		MPa	0.3			
Water flow range		m³/h	1.2-5.4	1.2-6.2	1.2-7.2	1.2-8.1
Refrigerant	Type		R290			
	Charged volume	kg	2.9			
Throttle type			EEV			
Unit dimension (W×H×D)		mm	1384*1816*523			
Packing dimension (W×H×D)		mm	1480*2000*570			
Net/Gross weight		kg	260/285			
Outdoor air temperature range	Cooling	°C	-15 ~ 48			
	Heating	°C	-25 ~ 43			
	DHW	°C	-25 ~ 43			
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 Group

HM-M202507V2

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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



MARS Series

R290 All DC Inverter Air Source Heat Pump

An environmentally friendly and energy efficient unit

What is the refrigerant?

Refrigerant is a kind of working medium used in refrigeration and air conditioning systems, which absorbs and releases heat through circulation flow, so as to achieve the effect of refrigeration and air conditioning.

Why is Mars Series unit equipped with R290 refrigerant?

Natural Refrigerant R290 R290

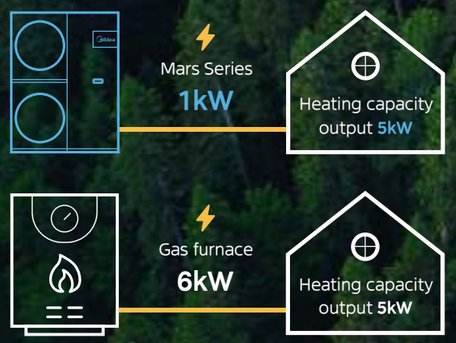
- Much lower GWP value to meet EU carbon neutrality
- No ozone depletion potential
- Excellent thermodynamic performance
- Great thermal efficiency for most conditions

Mars series unit has obtained certifications from multiple organizations, which is worthy of the customers' trust.

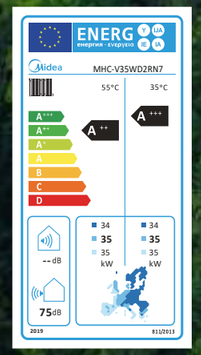
ODP=0
Neutral for the ozone layer

GWP=3
Lower impact on global warming

Mars Series meets the highest rank of energy efficiency criteria of European energy rating system.



ηs. Seasonal space heating energy efficiency
ηs average up to A+++ at 35°C



A light commercial Heat Pump that can be installed on a balcony

Mars Series unit has models with four capacity ranges: 26kW, 30kW, 35kW, and 40kW, focusing on light commercial applications. It is suitable for villa garden, small office buildings, apartments, hotels and other light commercial application scenarios.

Mars Series units can be connected in parallel up to 6 units, with a maximum heating capacity of 240kW. Its large capacity can meet the requirements of many commercial applications.

What should be done when the distance between houses is small and it is not possible to install unit with high heating capacity?

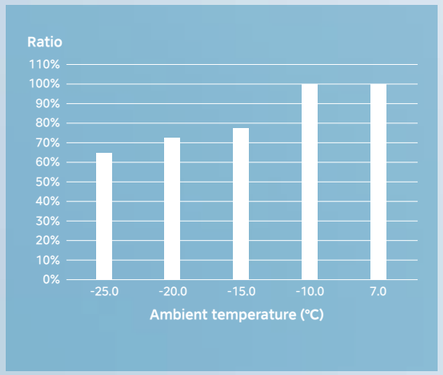
Mars Series unit adopts a side air outlet structure, with a footprint of approximately 0.72 m², a length of 1384mm, and a width of 523mm. When installing, a width of not less than 300mm should be reserved behind the unit.
When the distance between houses is small and it is not possible to install machines on the roof, the special design of the Mars structure allows it to be installed in small spaces such as balconies, meeting the user's heating/cooling needs throughout the year.



A heat pump that can operate efficiently at low ambient temperatures

Ordinary heat pump at low ambient temperature heating capacity decay more, need to be combined with gas furnace or electric heating to meet the heating demand.

Ratio of actual heating capacity to rated heating capacity (55℃ LWT)



Heating capacity reaches **100%** (except for 40kW unit), at ambient temperatures of **-10℃**;
Heating capacity **≥75%**, at ambient temperatures of **-15℃**;
Heating capacity **≥70%,** at ambient temperatures of **-20℃**;
Heating capacity **≥65%**, at ambient temperatures of **-25℃**;

Note:
Test condition: EN14511
Under the ambient temperature of -10℃ to 7℃, due to the defrosting of the unit, the cycle heating capacity has a certain attenuation.

Why can the Mars series unit achieve excellent low-temperature heating capacity?

Mars series unit is equipped with an R290 dedicated Inverter EVI (Enhanced Vapor Injection) Scroll Compressor, which, combined with EVI technology, improves low-temperature heating capacity and energy efficiency by increasing refrigerant circulation of the heat pump at low ambient temperature.

Mars series unit has a strong low temperature capacity, without the need to match an external heat source, one machine can provide year-round heating needs, not only worry, but also save electricity.



A heat pump that can achieve a leaving water temperature of up to 85℃

Heating application scenarios

Some old projects use old cast iron radiators, requiring high water temperatures, and traditional heat pumps cannot directly replace the Boiler







Hot water application scenarios

With just Mars series heat pump, it is possible to produce 75℃ hot water when the temperature ranges from -20℃ to 20℃.



Note: If a higher hot water temperature is required, a water tank with electric heating can be customized.

85 ℃ leaving water temperature at **-15℃** ambient temperature
80 ℃ leaving water temperature at **-20℃** ambient temperature

The high water outlet temperature of Mars series unit can meet a wide range of terminal-use scenarios, covering more than 99% of European heating scenarios.



A good heat pump is inseparable from comfortable use experience

Mars comes with a color screen wired controller with an attractive design that has won the Red Dot Award. The interface is simple and direct, and the operation is easy. It can be paired with the Midea SmartHome app, allowing the unit to be remotely controlled from anywhere.

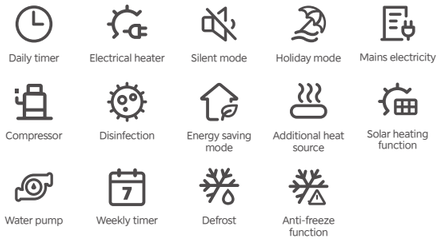
Intuitive and easy-to-use for best experience

New User Interface



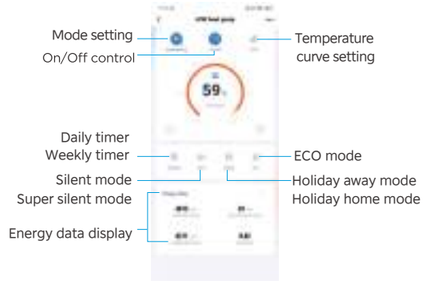
- Color display
- Intuitive interface
- Touch-key design
- Liquid crystal display
- Built-in Wi-Fi module
- Modbus protocol
- APP control
- Non-polarized wiring

reddot design award



Control from anywhere at your fingertips

SmartHome APP



Monitoring

- System status
- Real-time temperature
- Energy consumption data

Scheduling

- On/off operation
- Holiday settings
- Hot water heating control

Convenient modes

- Silent mode
- Eco mode
- Holiday mode

Download on the App Store

GET IT ON Google Play

In light commercial scenarios, different heating temperature requirements often exist in the same building, such as different temperature requirements for shopping areas and office areas, which may have different hot water temperature requirements when using different end units.

The dual-zone control function equipped in Mars series unit can perfectly meet the requirements of this scenario. The wired controller can be used to set different water outlet temperatures for two independent zones, providing users with a more comfortable experience.





Heat pump selection and after-sales service are also important aspects of the user experience.

Midea has developed professional selection software and after-sales service tools to help dealers better serve customers. The selection software helps customers choose models with suitable capacity, and the after-sales service tools enable customers to enjoy better and more timely after-sales service experience.

Heat pump selection provides comprehensive design

Heat Pump Selection software

https://www.midea-hpselection.com/

- Website design
- Dedicated section for professionals (Eurovent certification)
- Easy-select consumer section
- Sophisticated configuration tool
- Energy-usage comparison tool





Eurovent Certita

CERTIFICATE N° 12.09.003

Appendix / Annexe

Granted on September 27, 2012 – *Date 1ère admission 27 septembre 2012*

This document is valid at the date of issue – Check the current validity on:
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Heat Pump Solution 1.2
Midea Air-Cooled Chiller Selection 1.006

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Tel. : 33 (0)1 75 44 71 71 – 513 133 637 RCS Paris – SIRET 513 133 637 000 35 – TVA FR 59513133637

Multiple after-sales service and support platforms

LetsLink Heat Pump Assistant
APP

Heat pump remote connection and control from anywhere

- Ideal for busy service providers
- Enables faster service and eliminates unnecessary service calls
- Control various operations, monitor set parameters remotely
- Get reports with historical data
- Fault-code queries and troubleshooting

Intelligent HVAC Management System

Centralized, 24/7 monitoring of multiple units

- Enables complete control of all installed units
- Real-time status updates for multiple units with a single click
- Get access to historical data
- No limit to the number of connected devices and user accounts
- No need to carry multiple devices



iEasyEnergy solution - A Step Toward Energy Independence

Midea MBT has launched the iEasyEnergy solution to provide one-stop services spanning from design to installation to meet the needs of energy consuming devices in households. iEasyEnergy solution is based on PV panels, LFP batteries and heat pump system, through iEasyEnergy app for energy scheduling and centralized flexible control, greatly improve energy efficiency, the entire system can be up to 0% home energy self-sufficiency increased to 90%, customers not only save energy bills, it can also improve energy security.

1 Heat Pump
2 M-ESS (Energy storage)
3 M-Master (Central controller)
4 M-Charger (EV Charger)
5 M-Solar (Solar module)

Analyze whether your home energy is safe, perform visible energy management automatically

iEasyEnergy is an intelligent energy management APP that integrates heat pumps, photovoltaic modules, energy storage, hybrid inverters, and other equipment into a flexible and efficient system. It enhances the energy independence of your home and opens up a new era of home energy management.



Advanced Highlights

- 3-in-1 one-stop management
- Excess solar for continues heating and free cooling"by flexible control
- Home energy self-sufficiency and anergy bill savings analysis
- Automatic fault notification push and analysis

GET IT ON Google Play Download on the App Store

Heat Pump + PV + Battery + DHW Water Tank Professional Selection

Midea Energy Super Advisor helps installers configure energy systems with auto-generated reports and analysis.

https://ieasyenergy.mideaibp.com/

Simple, 4-Step professional energy-solution proposal

Basic info. For solar
Basic info. For HP
Historical energy data
Hardware proposal & Financing analysis

