

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	9.75
	COP		4.77	4.50	4.17	4.00
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 class	194.9%	193.8%	176.3%	169.7%
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	Cooling²	°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.
3.The specifications of 40kW unit under test.





AΓΗΝΩΡ Α.Ε.

ΟΜΙΛΟΣ ΕΤΑΙΡΙΩΝ ΤΟΥΡΝΙΚΙΩΤΗ

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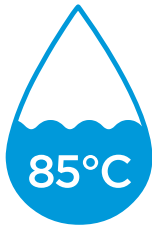
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Note: Product specifications change from time to time as product improvements and developments are released and may vary from those in this document.



Mars Series
R290 All Inverter
Air Source Heat Pump





Efficient and Versatile

- Product capability: 30/35kW
- 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

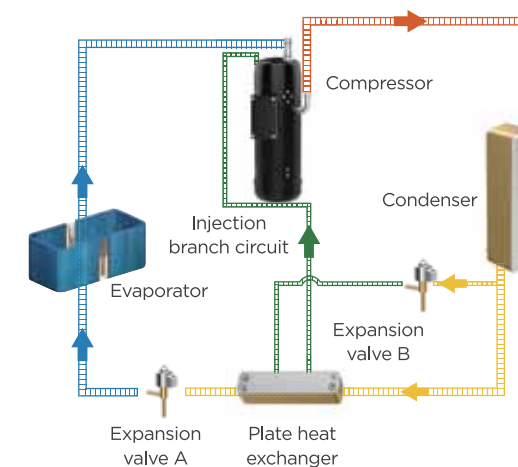
- Adaptive adjustment to the optimal target temperature difference
- Combine efficiency with user comfort
- The power consumption of water pump transmission and distribution can be reduced by 70%

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



Discharge temperature
Injection pressure



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