


## R290 M thermal Nature Heat Pump Launch Notification

We are pleased to announce that Midea R290 M thermal Nature Heat Pump will officially launch from March 31<sup>st</sup>, 2024 onwards.

### Product lineup

Capacity		8	10	12	14	16
Power supply	220~240V-1N-50Hz	•	•	•	•	•
	380~415V-3N-50Hz	•	•	•	•	•
Appearance						

### Main Feature

#### ❖ Refrigerant 290

- Natural refrigerant R290, a highly pure propane with GWP=3 and ODP=0, does not have any ozone depletion potential and provides great support to reach carbon neutrality.
- Outstanding thermodynamic performance and less charging volume required compared to other types of refrigerant.

#### ❖ Noise-reduction technology

- Ultra-quiet performance with QUIET MARK certification.
- A variety of technologies to achieve the most silent experience, including compressor, axial fan, and unit structure.

#### ❖ Powerful performance

- High energy efficiency with ErP directive up to A+++ at 35°C & 55°C water temperature.
- Power heating capacity even at low ambient temperature. The unit can realize 100% heating output at -7°C, ≥80% output at -15°C, and ≥70% output at -22°C.

# Product news



- Industry-leading 80°C outlet water temperature can satisfy almost all household demands in all kinds applications.

## ✦ Robust engineering

- All DC inverter technology including compressor, water pump, and fan, ensures high efficiency, less energy consumption, and quiet operation.
- IP55 class hermetic electric control box with excellent sealability and all electrical components with explosion-proof design ensures reliability and safety.
- Smart sensor technology ensure continuous operation in case of a sensor malfunction

## ✦ Comprehensive intelligent tools

- Brand new user-friendly controller with color display, touch-key design, and intuitive interface improves customers' experience better. Meanwhile, with a non-polarized wiring connection, the installation is much more convenient.
- Multiple IOT tools including heat pump selection software, SmartHome APP, LetsLink APP, and iBUILDING Intelligent HVAC Management System support comprehensive and intelligent selection, operation and commissioning.

## Specifications(Draft)

Model			MHC-V8WD2N7-B	MHC-V10WD2N7-B	MHC-V12WD2N7-B	MHC-V14WD2N7-B	MHC-V16WD2N7-B
Power supply		V/Ph/Hz	220-240/1/50				
Heating A7W35	Capacity	W	8000	9500	12100	14000	15500
	Rated input	W	1524	1919	2444	2979	3444
	COP	/	5.25	4.95	4.95	4.70	4.50
Heating A7W45	Capacity	W	8100	9500	12300	14100	15500
	Rated input	W	2025	2436	3154	3760	4247
	COP	/	4.00	3.90	3.90	3.75	3.65
Heating A7W55	Capacity	W	8000	9500	11900	13800	16000
	Rated input	W	2388	2969	3662	4381	5246
	COP	/	3.35	3.20	3.25	3.15	3.05
Heating A-7W35	Capacity	W	7000	8000	10000	12000	13100
	Rated input	W	2154	2540	3175	4286	4852
	COP	/	3.25	3.15	3.15	2.80	2.70
Cooling A35W18	Capacity	W	8300	10000	12000	14000	15000
	Rated input	W	1581	2174	2609	3182	3529
	EER	/	5.25	4.60	4.60	4.40	4.25
Cooling A35W7	Capacity	W	7450	8100	11500	12400	14000
	Rated input	W	2224	2613	3770	4133	5185
	EER	/	3.35	3.10	3.05	3.00	2.70
SCOP	Average climate, W35°C		A+++				
			5.35	5.33	4.94	4.76	4.72
SEER	Average climate, W55°C		A+++				
			4.06	4.01	3.96	3.85	3.86
SEER	Average climate, W7°C		5.61	5.53	4.99	4.97	4.98
	Average climate, W18°C		7.63	7.67	7.03	6.94	6.87
Erp sound power Level		dB	53	54	55	57	59
Sound pressure (1m)	Heating A7W35	dB(A)	40	41	43	46	49
	Cooling A35W18	dB(A)	39	41	42	43	44

# Product news



Refrigerant	Type (GWP)	/	R290 (3)				
	Charged volume	g	1100	1100	1500	1500	1500
Unit dimension (H×W×D)		mm	1051 x 1330 x 475				
Packing dimension (H×W×D)		mm	1235 x 1390 x 570				
Net/Gross weight		kg	148/170	148/170	169/191	169/191	169/191
Water side connection		/	G1 1/4" BSP				
Outdoor air temperature range	Cooling	°C	-5 ~ 46				
	Heating	°C	-25 ~ 35				
	DHW	°C	-25 ~ 46				
Water setting temperature range	Cooling	°C	5 ~ 25				
	Heating	°C	25 ~ 80				
	DHW	°C	20 ~ 70				

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	DHW	°C	20 ~ 70				

# Product news



## Main Technical Document Expected Timetable

Technical Document Category	Expected Completion Time
Brochure	Feb 4 <sup>th</sup> , 2023
Technical Manual	Mar 8 <sup>th</sup> , 2023
Service Manual	Mar 29 <sup>th</sup> , 2023
Selection software	Mar 25 <sup>th</sup> , 2023

If you have any questions, please do let us know.

Thanks for your attention and cooperation!