



## MEGAWAVE **R290** Heat Pumps

### What's included in Megawave R290 Heat Pumps?

- R290 Refrigerant
- Full DC inverter Compressor
- High efficiency plate heat exchanger
- DC inverter fan
- Inverter Driver
- Pressure Sensor
- 38dB Low noise Fan
- Blue-fin Evaporator
- Water Pump
- Four Way Valve
- Water Flow Switch
- Wi-Fi control
- An IoT Device (Remote Monitoring system)

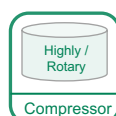
### Why Megawave R290 Heat Pumps?

- R290 Refrigerant, efficient and low GWP
- An IoT Device, can be programmed to collect and transfer data through a network, which can enable remote troubleshooting and monitoring.

The device could collect and send data about temperature, pressure, and other performance metrics to a remote system, which can be used to identify and diagnose errors or malfunctions in the system. This can potentially save time and money by allowing for quicker and more efficient troubleshooting without the need for an on-site technician

- Energy Class A+++
- Running at -25 °C
- Outlet water temperature up to 75°C
- 3min Intelligent defrosting
- 5 years Warranty (T&Cs apply)

- Low maintenance
- Low running costs
- No fossil fuel burnt
- Unlike conventional gas fired boilers Heat Pumps are not at risk of causing CO2 poisoning or gas explosions





# R290 HEAT PUMP SPECIFICATIONS

## Electrical Data

Model No	Power Supply	Rated Power Input	Rated Current Input	IP Rating	Fans	Fan motor	Circulation Pump	Compressor	Sound Pressure Level at 1M
Spec.	V/Ph/Hz	kW	A		Nr.	Type	Type	Brand/Type	dB
MWMHPC-6KW1	220~240/1/50	3.00	13.50	IPX4	1	DC Inverter	Built In/Inverter	Highly / Rotary / EVI	46
MWMHPC-8KW1	220~240/1/50	5.40	25.00	IPX4	1	DC Inverter	Built In/Inverter	Highly / Rotary / EVI	43
MWMHPC-8KW3	380~415/3/50	5.85	10.00	IPX4	1	DC Inverter	Built In/Inverter	Highly / Rotary / EVI	43
MWMHPC-12KW1	220~240/1/50	5.50	24.50	IPX4	1	DC Inverter	Built In/Inverter	Highly / Rotary / EVI	53
MWMHPC-12KW3	380~415/3/50	5.50	10.50	IPX4	1	DC Inverter	Built In/Inverter	Highly / Rotary / EVI	54
MWMHPC-18KW1	220~240/1/50	7.50	35.00	IPX4	2	DC Inverter	Built In/Inverter	Highly / Rotary / EVI	55
MWMHPC-18KW3	380~415/3/50	9.00	16.00	IPX4	2	DC Inverter	Built In/Inverter	Highly / Rotary / EVI	56

## Mechanical Data

Model No	Water Pipe Connection	Rated water flow	Max outlet water temp	Operating Temp. Range. Heating	Operating Temp. Range. Cooling	Nominal Cooling (Max) (A35/24°C,W12/7°C)		Nominal Heating (Max) (A7/6°C,W30/35°C)				Nominal Heating (Max) (A7/6°C,W47/55°C)			
						Cooling Capacity	Power Input	Heating Capacity	Power Input	COP	ERP Level (Outlet water temp. 35°C)	Heating Capacity	Power Input	COP	ERP Level (Outlet water temp. 55°C)
MWMHPC-6KW1	DN 25 (1")	1.00	75	-25 to 45	16 to 45	1.38~5.70	0.61~2.11	2.92~9.1	0.61~2.11	4.31-5.66	A+++	2.99-8.16	1.03~2.92	3.21	A++
MWMHPC-8KW1	DN 25 (1")	1.40	75	-25 to 45	16 to 45	3.65~8.59	0.79~2.85	4.10~12.10	0.79~2.85	4.24-5.57	A+++	4.05-12.05	1.38~4.06	3.06	A++
MWMHPC-8KW3	DN 25 (1")	1.4	75	-25 to 45	16 to 45	3.65~8.59	0.79~2.85	4.10~12.10	0.79~2.85	4.24-5.57	A+++	4.05-12.05	1.38~4.06	3.06	A++
MWMHPC-12KW1	DN 25 (1")	2.06	75	-25 to 45	16 to 45	3.65~10.2	0.87~3.73	4.3~15.20	0.87~3.73	4.07-5.57	A+++	4.25-14.55	1.45~4.28	3.11	A++
MWMHPC-12KW3	DN 25 (1")	2.06	75	-25 to 45	16 to 45	3.65~11.04	0.87~3.73	4.3~15.20	0.87~3.73	4.07-5.57	A+++	4.25-14.55	1.45~4.28	3.11	A++
MWMHPC-18KW1	DN 32 (1.25")	3.10	75	-25 to 45	16 to 45	4.55~17.20	1.85~7.31	7.24~21.90	1.50~5.88	3.82-5.59	A+++	6.36-19.45	2.15~6.85	3.09	A++
MWMHPC-18KW3	DN 32 (1.25")	3.00	75	-25 to 45	16 to 45	4.55~17.20	1.50~5.88	7.24~21.90	1.50~5.88	3.82-5.59	A+++	6.36-19.45	2.15~6.85	3.09	A++



- Low maintenance
- Low running costs
- No fossil fuel burnt
- Unlike conventional gas fired boilers Heat Pumps are not at risk of causing CO2 poisoning or gas explosions

No Fossil Fuel burnt by the HP

Eco-Friendly

R290

Refrigerant

Outlet Water Temperature

Up to 75°

A+++

ErP 35°

Highly / Rotary

Compressor

DB38

Noise Level

WiFi Control

3min

Auto Defrosting

Heating & Cooling

Fan Coil Units

Hot Water

Solar Integration

Radiator

Underfloor Heating

220-240

Single Phase

380-415

Three Phase



## Performance Data & Curve



Model		MWMHPC-6KW1		MWMHPC-8KW1 MWMHPC-8KW3		MWMHPC-12KW1 MWMHPC-12KW3		MWMHPC-18KW1 MWMHPC-18KW3	
Ambient Temperature	Water Outlet(°C)	heating capacity	COP	heating capacity	COP	heating capacity	COP	heating capacity	COP
°C		kW	w/w	kW	w/w	kW	w/w	kW	w/w
-25	Outlet:35°C	2.64	2.52	3.49	2.62	5.11	2.44	7.63	2.32
-20		3.03	2.74	4.02	2.84	5.87	2.64	8.78	2.52
-7		4.61	3.49	6.11	3.63	8.93	3.37	13.35	3.22
-2		5.31	3.38	7.02	3.98	10.27	3.70	15.35	3.53
2		5.41	3.98	7.17	4.14	10.47	3.85	15.66	3.67
7		6.23	4.77	8.24	4.96	12.05	4.61	18.01	4.40
20		7.12	6.45	9.43	6.70	13.78	6.23	20.60	5.95
-25	Outlet:55°C	2.59	1.62	3.45	1.65	5.16	1.59	7.63	1.60
-20		2.98	1.75	3.96	1.79	5.94	1.73	8.77	1.73
-7		4.54	2.24	6.03	2.28	9.03	2.21	13.34	2.21
-2		5.22	2.45	6.93	2.50	10.39	2.42	15.34	2.42
2		5.32	2.55	7.07	2.60	10.59	2.52	15.65	2.52
7		6.12	3.06	8.13	3.12	12.18	3.01	18.00	3.02
20		7.00	4.14	9.30	4.22	13.94	4.08	20.59	4.08
-25	Outlet:60°C	2.46	1.48	3.34	1.49	4.98	1.43	7.34	1.42
-20		2.83	1.61	3.84	1.62	5.73	1.55	8.45	1.54
-7		4.31	2.05	5.84	2.07	8.71	1.97	12.84	1.96
-2		4.95	2.25	6.72	2.26	10.02	2.16	14.77	2.15
2		5.05	2.34	6.85	2.36	10.22	2.25	15.07	2.24
7		5.81	2.80	7.88	2.82	11.75	2.70	17.33	2.68
20		6.65	3.79	9.02	3.82	13.45	3.65	19.82	3.36
-15	Outlet:60°C	2.91	1.45	4.14	1.45	6.11	1.36	8.96	1.33
-10		3.34	1.58	4.76	1.58	7.02	1.47	10.30	1.45
-7		3.84	1.71	5.48	1.71	8.08	1.60	11.85	1.57
-2		4.42	1.87	6.30	1.87	9.29	1.75	13.63	1.72
2		4.51	1.95	6.43	1.95	9.47	1.82	13.90	1.79
7		5.19	2.34	7.39	2.34	10.89	2.18	15.98	2.14
20		5.93	3.16	8.45	3.16	12.46	2.95	18.29	2.90





**MEGAWAVE**  
A GREENER HOME

# R290 HEAT PUMP SPECIFICATIONS

Product Image	Model No	Power Supply	Unit Dimensions (LxDxH)	Packed Unit on Pallet (LxDxH)	Unit Weight(Kg)	Packed Weight(Kg)
	MWMHPC-6KW1	Single Phase	1187X418X805	1217X463X920	110	122
	MWMHPC-8KW1	Single Phase	1287X448X904	1317X493X1020	134	146
	MWMHPC-8KW3	Three Phase	1287X448X904	1317X493X1020	134	146
	MWMHPC-12KW1	Single Phase	1287X448X904	1317X493X1020	134	146
	MWMHPC-12KW3	Three Phase	1287X448X904	1317X493X1020	134	146
	MWMHPC-18KW1	Single Phase	1187X488X1455	1217X538X1570	195	208
	MWMHPC-18KW3	Three Phase	1187X488X1455	1217X538X1570	195	208



- Low maintenance
- Low running costs
- No fossil fuel burnt
- Unlike conventional gas fired boilers Heat Pumps are not at risk of causing CO2 poisoning or gas explosions



No Fossil Fuel burnt by the HP  
Eco-Friendly



R290  
Refrigerant



Outlet Water Temperature  
Up to 75°



A+++  
ErP 35°



Highly / Rotary  
Compressor



DB38  
Noise Level



WiFi Control



3min  
Auto Defrosting



Heating & Cooling



Fan Coil Units



Hot Water



Solar Integration



Radiator



Underfloor Heating



220-240  
Single Phase



380-415  
Three Phase