



BLUE STAR

# Heat Pump **AIR TO WATER MONOBLOC R290**



Capacity: **4.5,6,9,11,14,16 kW**



A+++/A++ Energy Labeling at 35°C/55°C Flow Temperature



R290 **Natural Refrigerant**



Ultra Low Sound Levels



Operation down to **-30°C**



Smart Defrost Technology for High Efficiency in Low Temperatures



BMS Modbus: RS485



Low Running Cost



**75°C** Flow Temperatures down to **-10°C**



Flexible Installation



Reliable Heating at Low Ambient Temperature



Advanced NanoBlu Protect Coating



Wi-Fi App Control

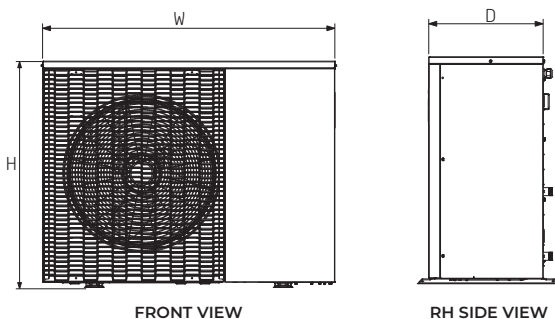
**Advanced Renewable Heating Technology**

# Product Specifications

Model	Outdoor Unit	AWHMEP-051	AWHMEP-061	AWHMEP-091	AWHMEP-111	AWHMEP-143	AWHMEP-163	
Power Supply	V / Hz / PH	220-240/50/1P ~	220-240/50/1P ~	220-240/50/1P ~ 380-415/50/3N ~		380-415/50/3N ~		
Refrigerant	Type	R290						
	Weight (kg)	0.5	0.95	1.15	1.25	1.4	1.6	
Nominal Performance	Heating Condition: Outside air temperature 7°C db / 6°C db; water inlet/outlet 30°C/35°C							
	Capacity	kW	4.5	6.25	9.48	11.09	14	15.99
	Power Input	kW	0.93	1.23	1.97	2.37	3.1	3.63
	COP		4.92	5.08	4.8	4.68	4.5	4.41
	Energy Class#		A+++	A+++	A+++	A+++	A+++	A++
	Heating Condition: Outside air temperature 7°C db / 6°C db; water inlet/outlet 47°C/55°C							
	Capacity	kW	4.5	6.06	9.52	10.9	15	16.1
	Power Input	kW	1.53	2.00	3.07	3.68	5	5.55
Outdoor Unit	Operating Range	Cooling	+10°C to +43°C					
		Heating	-30°C to +35°C					
		100% Heating	Down to -10°C ambient					
		Max Water Temperature	75°C					
	Compressor	Type	Inverter Rotary					
		Qty	1	1	1	1	1	1
	Air Side Heat Exchanger	Type	FTHX (Inner grooved copper tube with mechanically bonded with Anti corrosive Blue coated aluminum fins)					
	Fan	Type	Axial					
		Size (Dia.)	20"	20"	24"	24"	26"	20"
		Motor Type	BLDC	BLDC	BLDC	BLDC	BLDC	BLDC
		Qty	1	1	1	1	1	2
	Water side	Type	Brazen Plate heat exchanger					
	Heat Exchanger	Connection (In/Out)	1"	1"	1"	1"	1"	1"
	Circulation Pump	Type	DC					
		Head (meter)	7.5	7.5	7.5	7.5	12	12
	Sound Power Level	dBA	52.5	52.5	51.5	55.2	62	65
Dimensions	Net (W x D x H) (mm)	1099 x 486 x 825	1099 x 486 x 825	1224 x 486 x 951	1224 x 486 x 951	1330 x 590 x 1165	1224 x 630 x 1376	

Notes:  
 \* - Indicative values — subject to change during detailed engineering.  
 Blue Star has a policy of continuous product and product data improvements. Specifications are subject to change without prior notice.

## Dimensional Drawings

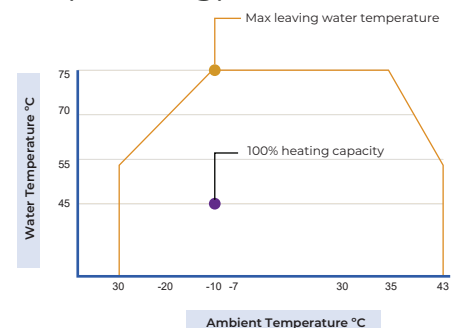


Capacity	W	D	H
5 ~ 6 kW	1099	486	825
9 ~ 11 kW	1224	486	951
14 kW	1330	590	1165
16 kW	1224	630	1376

All dimensions are in mm unless otherwise specified



## Operating Envelope (Heating)



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