



BLUE STAR

Heat Pump **AIR TO WATER MONOBLOC R290**



Model No: **AWHMEP-051**



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



R290 **Natural Refrigerant**



Ultra Low Sound Levels



Operation down to **-30°C**



100% Heating Capacity at -10°C



BMS Modbus: RS485



Low Running Cost



75°C Flow Temperatures down to **-20°C**



Flexible Installation



Reliable Heating at Low Ambient
Temperature



Advanced NanoBlu Protect Coating



Wi-Fi App Control

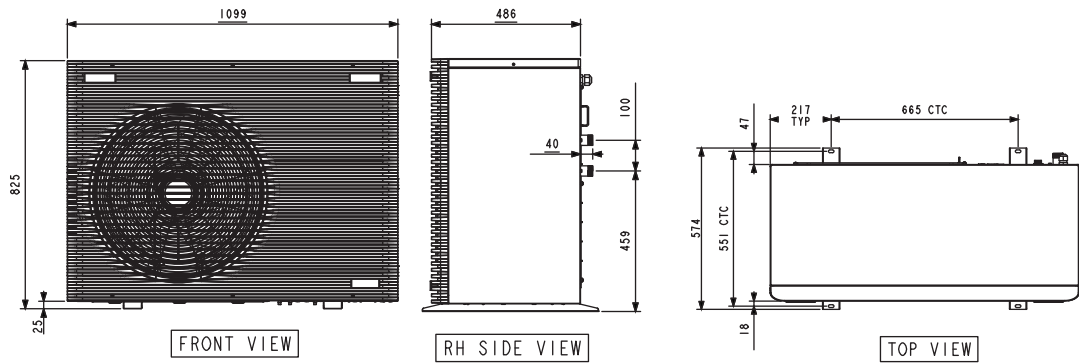
Advanced Renewable Heating Technology

Product Specifications

Parameter	Unit	AWHMEP-051
Power Supply (V/Hz/Ph)		220-240/50/1P ~
Refrigerant	Type	R290
	kg	0.5
Heating Condition: Ambient Temperature (DB/WB): 7/6°C, Water Temperature (In/Out): 30/35°C		
Heating Capacity	kW	4.59
Heating Power Input	kW	0.93
Heating COP	kW/kW	4.92
Energy Class*		A+++
Heating Condition: Ambient Temperature (DB/WB): 7/6°C, Water Temperature (In/Out): 47/55°C		
Heating Capacity	kW	4.55
Heating Power Input	kW	1.53
Heating COP	kW/kW	2.97
Energy Class*		A++
Cooling Condition: Ambient Temperature (DB/WB): 35/24°C, Water Temperature (In/Out): 12/7°C		
Cooling Capacity	kW	2.55
Cooling Power Input	kW	0.78
Cooling COP	kW/kW	3.25
Cooling Condition: Ambient Temperature (DB/WB): 35/24°C, Water Temperature (In/Out): 23/18°C		
Cooling Capacity	kW	3.9
Cooling Power Input	kW	1.1
Cooling COP	kW/kW	3.53
Operating Range Cooling	°C	+10 ~ 43
Operating Range Heating	°C	-30 ~ 35
100% Heating Capacity	°C	Down to -10°C Ambient
Max Water Temperature	°C	75
Water Flow	m3/h	0.79
Compressor	Type	Inverter Rotary
Compressor Quantity	No	1
Air Side Heat Exchanger	Type	FTHX (Inner grooved copper tube mechanically bonded with anti-corrosive blue coated aluminium fins)
Fan	Type	Axial
Size	Dia	20"
Motor Type		BLDC
Quantity		1
Water Side Heat Exchanger	Type	Brazed Plate Heat Exchanger
Connection (In/Out)	Inch	1
Circulation Pump Water Head	m	7.5
Circulation Pump		DC
Sound Power Levels	dBA	52.5
Sound Pressure at 1m	dBA	38
Unit Dimension (W x D x H)	mm	1099 x 486 x 825

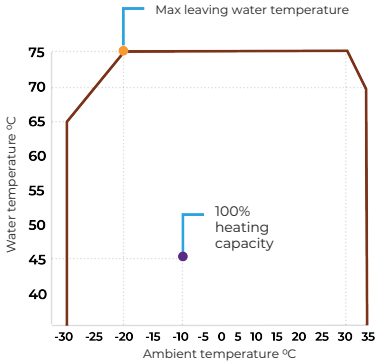
Notes: *Complies with eco-design regulation (EU) for heating application

Dimensional Drawings



All dimensions are in mm unless otherwise specified

Operating Envelope (Heating)



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