



BLUE STAR

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



Capacity: **4 , 6 , 9 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

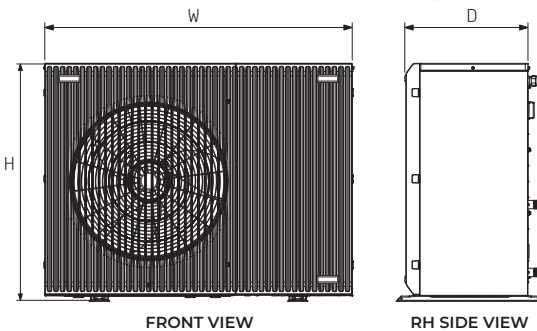
Advanced Renewable Heating Technology

# Product Specifications

Parameters	Unit	PAWHMEP-041	PAWHMEP-061	PAWHMEP-091
Capacity	kW	4	6	9
Power supply	V / Hz/ P~	220-240 / 50/ 1~		
Sound Power level @ ERP	dBA	50 ~ 55 *		
Efficiency @ LT 35LWT	%	195 ~ 200 (A+++)		
Efficiency @ MT 55LWT	%	> 151 (A+++)		
Compressor	-	Inverter twin rotary		
Compressor quantity	Nos	1	1	1
Plate heat exchanger	-	Brazen Plate heat exchanger		
Water circulator(Pump)	-	DC		
Water circulator(Pump) - Configuration	-	Variable		
Pump Head	Mtr.	7.5	7.5	12.5
Water side connection	Inch	1"	1"	1"
Air side heat exchanger		FTHX (Inner grooved copper tube mechanically bonded with anti-corrosive blue coated aluminium fins)		
Operating range - Heating	°C	- 30 to 35		
Operating range - Cooling	°C	10 to 43		
Max flow temperature	°C	75		
Fan	-	Axial fan		
Size	Inch	20"	24"	26"
Motor type	-	BLDC		
Dimensions(W X D X H)	MM	1100 x 490 x 825	1225 x 485 x 950	1330 x 590 x 1165

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

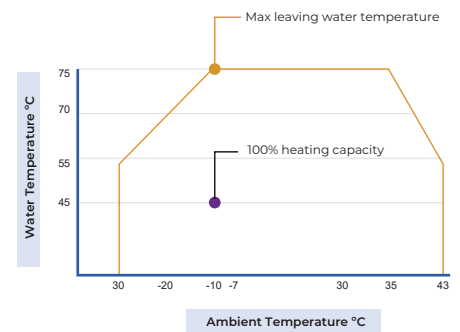
## Dimensional Drawings



Model	W	D	H
PAWHMEP-041	1100	490	825
PAWHMEP-061	1225	485	950
PAWHMEP-091	1330	590	1165

All dimensions are in mm unless otherwise specified

## Operating Envelope (Heating)



For more information, please contact: BLUE STAR EUROPE B.V. / BLUE STAR NORTH AMERICA INC.  
 Email Id: sales@globalbluestar.com  
 Website: www.globalbluestar.com  
[in](#) /Blue Star Americas, Europe and UK

Blue Star has a policy of continuous product and product data improvements. Specifications are subjected to change without prior notice. Blue Star explicitly rejects any liability for any direct or indirect damage, broadly arising from/or related to the use and interpretation of this product data sheet. Copyright of all content in this data sheet rests with Blue Star.

Version 1 | February 2026