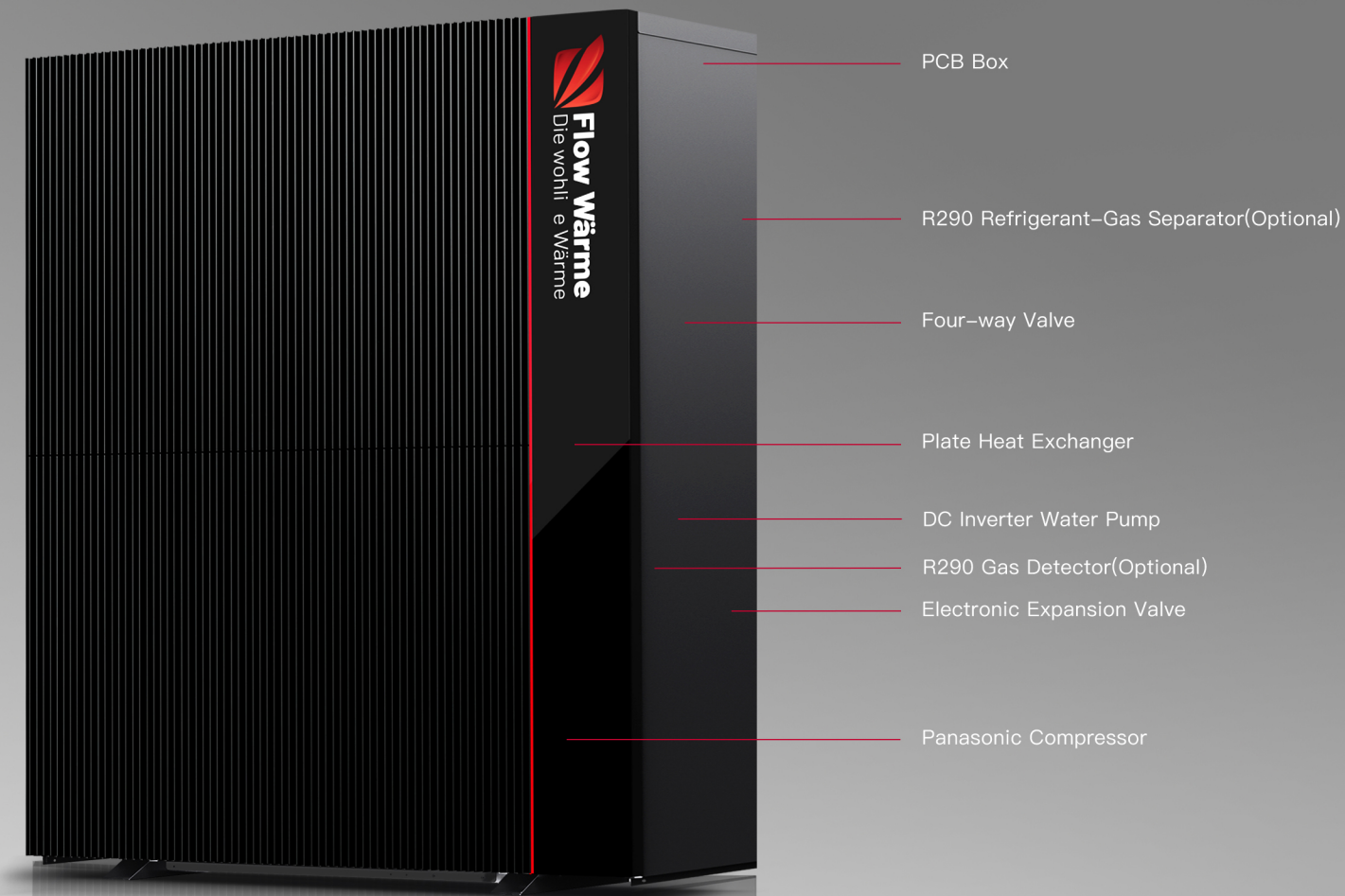
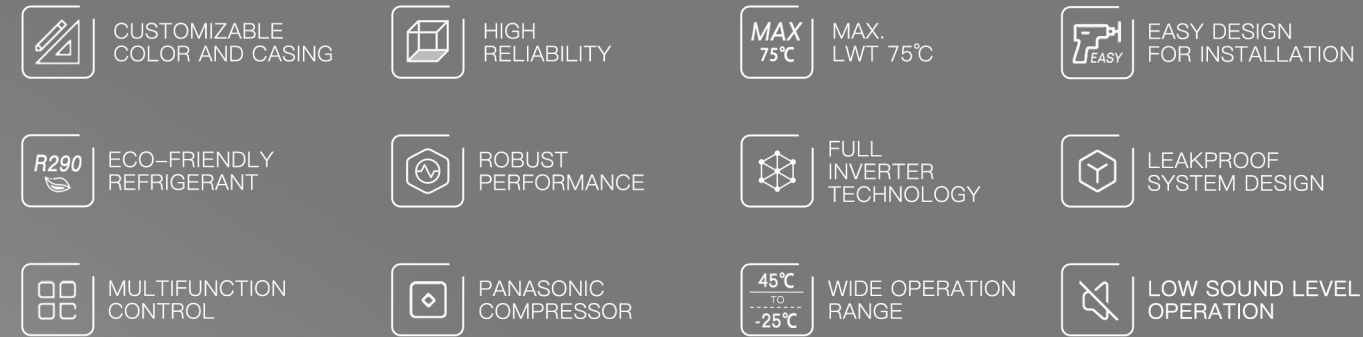


Technical Features



QUALITY CONTROL SYSTEM



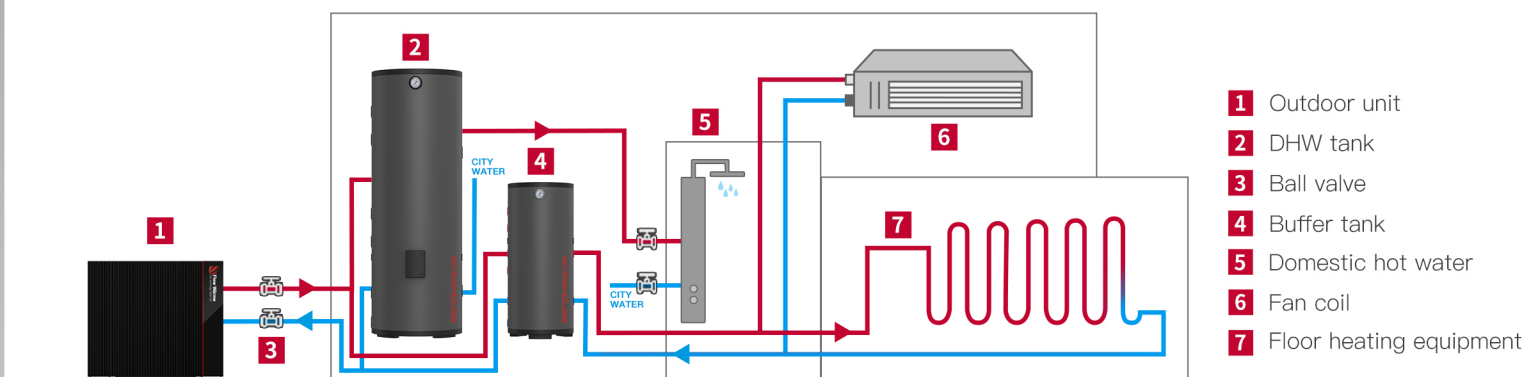
This exceptional offering proudly bears the CE, RoHS, SG Ready, Keymark, and ERP certifications, a testament to its adherence to the highest standards of quality and regulatory compliance. You can rest assured that you are choosing a product that has passed stringent testing for safety, efficiency, and environmental impact. Trust in our commitment to delivering excellence and peace of mind with every use.

R290 Monobloc Series

TECHNICAL SPECIFICATIONS

Model		FW-R290MB007-1	FW-R290MB008-1	FW-R290MB008-3	FW-R290MB012-1	FW-R290MB012-3	FW-R290MB016-1	FW-R290MB016-3	FW-R290MB020-3	
Performance data according to EN 14511										
A7/W35 Heating	capacity	kW	2.32-8.10	4.16-12.00	4.16-12.00	5.30-16.20	5.30-16.20	6.35-19.10	6.35-19.10	8.22-23.30
	Input Power	kW	0.57-1.82	0.79-2.67	0.79-2.67	1.02-3.80	1.02-3.54	1.20-4.10	1.20-4.10	1.49-5.23
	COP	W/W	4.07-4.45	4.49-5.27	4.49-5.27	4.26-5.20	4.58-5.20	4.66-5.29	4.66-5.29	4.46-5.52
A7/W55 Heating	capacity	kW	2.23-7.62	3.67-11.20	3.67-11.20	4.23-15.75	4.23-15.50	5.82-17.80	5.82-17.80	7.00-22.30
	Input Power	kW	0.81-2.60	1.14-3.60	1.14-3.60	1.52-5.28	1.52-4.98	1.79-5.68	1.79-5.68	2.17-7.30
	COP	W/W	2.75-2.93	3.11-3.22	3.11-3.22	2.78-2.98	2.78-3.11	3.13-3.25	3.13-3.25	3.05-3.23
A2/W35 Heating	capacity	kW	1.70-6.55	3.15-9.37	3.15-9.37	4.75-12.50	4.75-12.50	5.73-15.50	5.73-15.50	7.30-18.50
	Input Power	kW	0.62-1.80	0.83-2.68	0.83-2.68	1.10-3.71	1.10-3.45	1.33-4.54	1.33-4.54	1.63-4.85
	COP	W/W	2.76-3.64	3.50-3.79	3.50-3.79	3.35-4.32	3.62-4.32	3.41-4.31	3.41-4.31	3.81-4.48
A-7/W35 Heating	capacity	kW	2.04-4.55	3.20-7.65	3.20-7.65	4.15-10.54	4.15-10.54	4.33-13.20	4.33-13.20	6.70-16.00
	Input Power	kW	0.70-1.45	0.97-2.62	0.97-2.62	1.27-3.81	1.27-3.81	1.62-4.43	1.62-4.43	1.93-5.30
	COP	W/W	2.91-3.14	2.91-3.30	2.91-3.30	2.77-3.26	2.77-3.26	2.67-2.98	2.67-2.98	3.02-3.47
A35/W7 Cooling	capacity	kW	2.14-6.28	2.60-9.00	2.60-9.00	4.00-12.15	4.00-12.15	4.38-14.90	4.38-14.90	5.80-19.10
	Input Power	kW	0.72-2.13	0.91-3.16	0.91-3.16	1.15-4.46	1.15-4.12	1.33-5.20	1.33-5.20	1.63-6.30
	EER	W/W	2.95-2.97	2.85-2.86	2.85-2.86	2.72-3.48	2.95-3.48	2.87-3.29	2.87-3.29	3.03-3.56
Energy rating average climate¹										
Energy efficiency class 35°C/55°C		A+++/A++	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++
Unit information										
Power supply		220-240V~, 50Hz	220-240V~, 50Hz	380-415V, 3N~, 50Hz	220-240V~, 50Hz	380-415V, 3N~, 50Hz	220-240V~, 50Hz	380-415V, 3N~, 50Hz	380-415V, 3N~, 50Hz	380-415V, 3N~, 50Hz
Max input power	kW	2.90	4.35	4.35	5.80	5.80	7.80	7.80	9.50	
Max input current	A	12.80	18.80	6.30	25.20	8.50	34.00	11.50	14.10	
Net Dimensions(W*D*H)**	mm	1000*391*689	1183*466*825		1183*466*1035		1183*466*1379		1183*566*1379	
Packaging dimensions(W*D*H)	mm	1110*465*850	1285*555*985		1285*555*1195		1285*555*1540		1285*655*1540	
Refrigerant										
Type of refrigerant		R290								
GWP		3								
Refrigerant charge volume	kg	0.57	0.86	0.86	1.15	1.15	1.55	1.55	1.90	
CO2 equivalent	TON	0.000014	0.0000172	0.0000172	0.000023	0.000023	0.000031	0.000031	0.000038	
Type of compressor		Twin-rotary DC inverter								
Sound Power ² (Heating)	dB(A)	56	56	56	58	58	62	62	65	
Operation range in heating	°C	-25 ~ 35								
Operation range in cooling	°C	15 ~ 45								
Loading quantity (20GP/40HQ)	SETS	50/156	34/ 72		17/72		17/36		13/27	
¹ Scale from A+++ to D. ² The sound power level is measured with accordance to EN12102. * For more detailed performance data please refer to the product nameplate. ** Net dimensions are indicative only; refer to the nameplate for actual values.										

Application Connection Diagram



- 1 Outdoor unit
- 2 DHW tank
- 3 Ball valve
- 4 Buffer tank
- 5 Domestic hot water
- 6 Fan coil
- 7 Floor heating equipment

Flow Wärme
www.flowwarme.com

AURA PREMIUM MONOBLOC

R290 SERIES

7/8/12/16/20 kW Optional
2023 Reddot Award
2023 Japan's Good Design Award



R290 Monobloc

R290 refrigerant has a much lower Global Warming Potential (GWP = 3) compared to R32 (GWP = 675), making it a more eco-friendly choice.



Optimized Integrated Design for Maximum Efficiency and Safety

The R290 Monobloc features an integrated design that combines all components into a compact unit, saving space and simplifying installation.



R290 Refrigerant-Gas Separator and Gas Detector (Optional)



The R290 Gas detector is used to detect leaks of R290 refrigerant. It can monitor real-time leaks of R290 gas inside the machine to ensure safe operation.

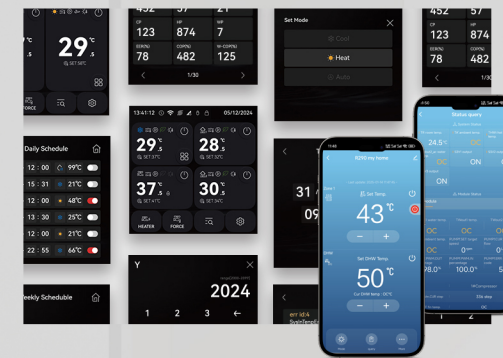
The R290 Refrigerant-Gas Separator separates and purifies gases in the water circuit, ensuring water quality, removing impurities, maintaining system efficiency, extending equipment lifespan, and enhancing heat exchange performance.

Ultra-quiet Operation

The R290 Monobloc features noise reduction design, achieving a sound pressure level as low as 41 dB(A) at 1 meter



41 ~ 50dB(A) 1 meter distance



Smart Colorful Touch Display with WiFi and App Control

The R290 Monobloc features a vibrant smart touch display with an intuitive interface. With WiFi connectivity and Smart App control, users can easily monitor and adjust settings remotely, providing convenience and full control at their fingertips.

Achieving the Highest ERP Energy Grade A+++/A+++ for Space Heating

The R290 Monobloc achieves up to A+++/A+++ (35°C/55°C) which effectively reduces annual energy costs.

