

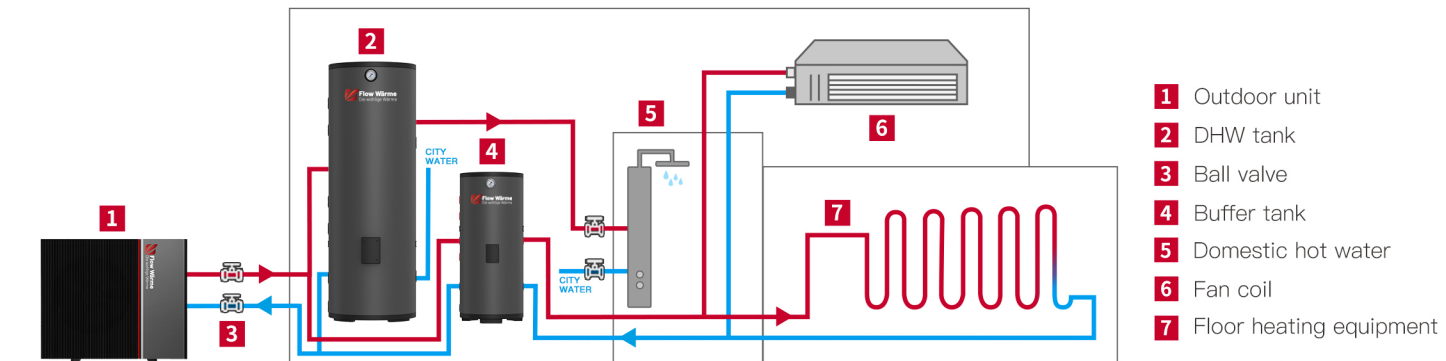
R32 Monobloc Series

TECHNICAL SPECIFICATIONS

Model		FW-MB012-1	FW-MB012-3	FW-MB016-1	FW-MB016-3	FW-MB020-1	FW-MB020-3	FW-MB024-3	FW-MB032-3	
Power Supply		V/Ph/Hz	220-240/1/50	380-415/3/50	220-240/1/50	380-415/3/50	220-240/1/50	380-415/3/50	380-415/3/50	
Features		Heating/Cooling/Hot water/Wi-Fi Control								
Type		Monobloc								
Refrigerant		R32								
Heating (A7/W35)	Heating capacity	kW	4.30~12.00	4.30~12.00	7.95~16.20	7.95~16.20	8.00~20.20	8.45~20.50	11.25~24.20	13.10~32.00
	Power Input	kW	0.98~2.76	0.98~2.71	1.62~3.39	1.61~3.46	1.64~4.39	1.66~4.50	2.30~5.25	3.07~7.19
	COP	W/W	4.35~4.39	4.38~4.43	4.78~4.91	4.68~4.78	4.60~4.88	4.55~5.09	4.61~4.89	4.26~4.45
Heating (A7/W55)	Heating capacity	kW	3.95~11.50	3.65~11.50	6.74~15.80	6.74~15.80	8.30~18.50	8.42~18.70	8.28~22.10	12.61~29.50
	Power Input	kW	1.75~3.90	1.63~3.72	2.48~4.89	2.48~4.89	2.92~5.70	2.74~5.85	3.38~7.00	5.46~9.77
	COP	W/W	2.26~2.95	2.24~3.09	2.72~3.23	2.72~3.23	2.84~3.25	3.07~3.20	2.45~3.16	2.31~3.02
Heating (A-7/W35)	Heating capacity	kW	2.75~9.00	2.75~9.00	6.95~13.10	7.15~13.60	7.01~15.00	7.23~15.20	7.72~19.10	11.40~23.00
	Power Input	kW	0.99~2.91	0.99~2.91	2.32~4.16	2.18~4.16	2.31~4.80	2.28~4.72	2.78~6.10	4.13~7.42
	COP	W/W	2.79~3.09	2.79~3.09	3.00~3.15	3.27~3.28	3.02~3.12	3.17~3.22	2.77~3.13	2.76~3.10
Cooling (A35/W18)	Cooling capacity	kW	4.50~11.10	4.50~11.10	9.90~14.70	9.40~14.70	10.50~18.00	9.90~18.50	7.20~22.10	16.50~27.80
	Power Input	kW	0.95~2.65	0.95~2.65	2.00~3.50	1.98~3.50	2.20~4.30	1.97~4.30	2.12~5.60	3.53~6.67
	EER	W/W	4.19~4.74	4.19~4.74	4.20~4.71	4.20~4.75	4.19~4.77	4.30~5.03	3.39~3.95	4.17~4.68
Cooling (A35/W7)	Cooling capacity	kW	3.30~9.10	2.80~9.10	6.78~13.50	5.62~13.5	6.90~16.60	6.70~16.40	7.35~19.10	8.96~23.86
	Power Input	kW	1.08~3.07	1.02~2.92	2.00~4.54	1.89~4.65	1.90~5.39	1.91~5.32	2.36~6.86	3.16~8.28
	EER	W/W	2.96~3.06	2.75~3.12	2.97~3.39	2.90~2.97	3.08~3.63	3.08~3.51	2.78~3.11	2.84~2.88
Energy efficiency class 35°C/55°C			A+++/A++	A+++/A++	A+++/A++	A+++/A++	A+++/A++	A+++/A++	A+++/A++	
Max Power Input (Heat Pump)		kW	4.80	4.80	6.30	6.30	7.40	7.40	9.00	12.00
Max input current (Heat Pump)		A	21.30	7.17	28.00	9.40	32.80	11.00	13.40	17.90
Refrigerant volume/ CO2 Equivalent		g/TON	1500/1.01	1500/1.01	2600/1.76	2600/1.76	3050/2.06	3050/2.06	3500/2.36	4650/3.14
Type of compressor		Panasonic(EVI Twin-rotary DC inverter)								
Fan type		DC motor fan-Horizontal								
Fan qty		1	1	2	2	2	2	2	2	
Inverter circulation pump		Included								
Operation range in heating		°C	-25 ~ 43							
Operation range in cooling		°C	15 ~ 45							
Sound power level ¹		dB(A)	58	58	62	62	64	64	67	70
Net dimensions(W*D*H)		MM	1030*526*867			1030*456*1344			1185*515*1600	
Packaging dimensions(W*D*H)		MM	1130*570*1025			1130*500*1500			1285*605*1760	
Loading qty(20'/40')		SETS	40/84			22/48			13/28	

Accessories: 3kw Electric heater(optional), Y-Strainer, Controller panel, User manual.
 1.The sound power level is measured with accordance to EN12102.
 *For more detailed performance data please refer to the product nameplate.

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

MALENA MONOBLOC R32 SERIES

- Compact Monobloc Design
- Panasonic EVI Compressor
- Eco-Friendly R32 Refrigerant
- Smart Color Screen Controller



The Malena R32 : Your Ultimate All-Season Climate Solution

- Featuring smooth, flowing lines and a modern finish, the innovative design transforms this fully functional heat pump into a stylish element of your home's aesthetic, seamlessly blending with the architectural environment.
- Equipped with an advanced multi-layer compressor chamber and wind speed noise reduction technology, it ensures silent operation even at peak performance. The system creates a peaceful environment year-round, protecting both indoor users and neighboring homes from disruptive operating noise.
- Designed with a focus on sustainability and low-carbon emissions, it integrates seamlessly with smart grids and photovoltaic (PV) systems. The unit intelligently adjusts its operation based on available energy, optimizing the use of excess electricity to ensure maximum efficiency and contribute to a more sustainable, energy-efficient home.



Product Key Features

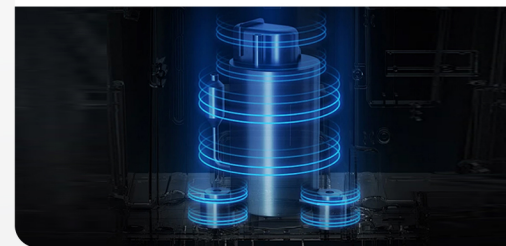
The Malena R32 Monobloc Series heating heat pump is engineered for efficient performance in both residential and light commercial applications.

ALL-IN-ONE COMPACT MONOBLOC DESIGN



Integrated with a high-efficiency inverter circulation pump, this R32 monobloc heat pump delivers heating, cooling, and domestic hot water (DHW) — all from a single, space-saving unit.

HIGH-PERFORMANCE PANASONIC EVI COMPRESSOR



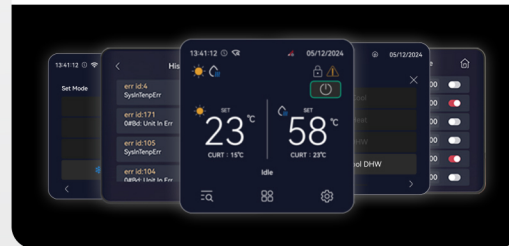
Advanced inverter compressor, making it work stably in ambient temperatures down to -25°C ; the built-in frost protection ensures reliable performance in extreme climates.

ENVIRONMENTALLY FRIENDLY R32 REFRIGERANT



With a Global Warming Potential (GWP) approximately 30% lower than older refrigerants like R410A, R32 significantly reduces environmental impact, delivering a perfect balance of sustainability and cost-effectiveness.

SMART COLOR SCREEN CONTROLLER SYSTEM



The intuitive touch-button control and color screen provide a visually appealing and user-friendly interface, ensuring effortless operation and easy adjustments.

BUILT-IN HIGH & LOW PRESSURE SENSORS AND SWITCHES



Real-time pressure monitoring ensures precise and safe operation. Automatically triggers alarms and power cut-off during abnormal pressure conditions, effectively extending equipment lifespan.



Panasonic EVI Compressor



Built-in Inverter Circulation Pump



Energy Efficiency A++/A+++



Eco-Friendly R32 Refrigerant



Customizable Color and Casing



Low Noise Operation



Wide Operation Range 45°C TO -25°C



Full Inverter Technology

A bold, fresh, and forward-thinking design that seamlessly integrates modern aesthetics with exceptional functionality and usability.