



MW MONOBLOC R32

Air-to-water heat pump

OUTDOOR UNITS



5.00 kW	6.00 kW	8.00 kW
1-Phase	1-Phase	1-Phase
MCWNGS 402 Z	MCWNGS 602 Z	MCWNGS 802 Z



10.20 kW	12.00 kW	14.20 kW	15.70 kW
1-Phase	1-Phase	1-Phase	1-Phase
MCWNGS 1002 Z	MCWNGS 1202 Z	MCWNGS 1402 Z	MCWNGS 1602 Z

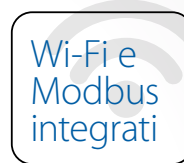
10.20 kW	12.00 kW	14.20 kW	15.70 kW
3-Phase	3-Phase	3-Phase	3-Phase
MCWSGS 1002 Z	MCWSGS 1202 Z	MCWSGS 1402 Z	MCWSGS 1602 Z

AIR-TO-WATER HEAT PUMP MW MONOBLOCCO R32

MW MONOBLOC by MULTIWARM is the reliable and advantageous solution for heating, cooling and producing DHW in micro-condominiums, single homes and apartments. The latest generation Full DC Inverter technology guarantees top-of-the-class performance and energy savings, with the added guarantee of the MULTIWARM brand.



Management via
EWPE Smart app



SMART GRID
Reading the trend of the electricity grid, energy savings guaranteed

Heating via radiant floors, fan coils, radiators

Thanks to MULTIWARM's MW MONOBLOC it is possible to heat all rooms, powering low-temperature hydronic terminals such as radiant floors, and medium-temperature ones, such as fan-coils and high-efficiency radiators.

Main operating modes

- Cooling, heating, DHW production.
- Cooling + DHW production (with selectable priority).
- Heating + DHW production (with selectable priority).
- DHW production.

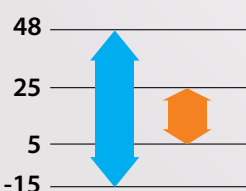
Project climate zones for heating

Outside design temp.	Max delivery temp.	Climate zones
+10°C	65°C	WARMER
+5°C	62°C	
+2°C	60°C	
0°C	59°C	AVERAGE
-5°C	56°C	
-10°C	53°C	
-15°C	50°C	COLDER
-20°C	47°C	
-25°C	44°C	

MW MONOBLOC is the R32 heat pump that operates in the following modes:

COOLING MODE

❄ from -15° C to 48° C
🔥 from 5° C to 25° C (delivery temp.)



DHW PRODUCTION

🔥 from -25° C to 45° C



HEATING MODE

❄ from -25° C to 35° C
🔥 from 20° C to 65° C (delivery temp.)



Legend



Outdoor air temperature



Water temperature

MW MONOBLOC R32

Product benefits



SILENT MODE

Silent mode operation reduces the noise of the heat pump compressor and fan.



CONNECTION WITH OTHER HEAT SOURCES

If the outdoor temperature is lower than the set-point, the external heat source will start operating.



CLIMATE CURVE

Automatically adjusts the water flow temperature and the room temperature based on the outdoor temperature.



EMERGENCY MODE

In the event of a heat pump malfunction, the auxiliary electrical resistors are activated.



ANTI-LEGIONELLA CYCLES

Increase the water temperature up to 70°C using the electric resistance in the DHW storage tank, thus eliminating legionella bacteria and sterilizing the water.



WEEKLY TIMER

Possibility to set up to three daily operating programs (both in heating and cooling).

Compact dimensions

5.00~8.00 kW

10.20~15.70 kW



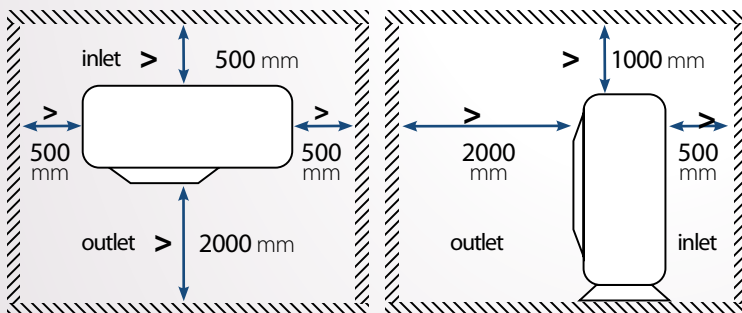
Aluminum fins with anti-corrosion coating (Gold Fin)

Gold Fin

The fin coating lasts over time and ensures greater resistance to salt corrosion.



Ease of installation



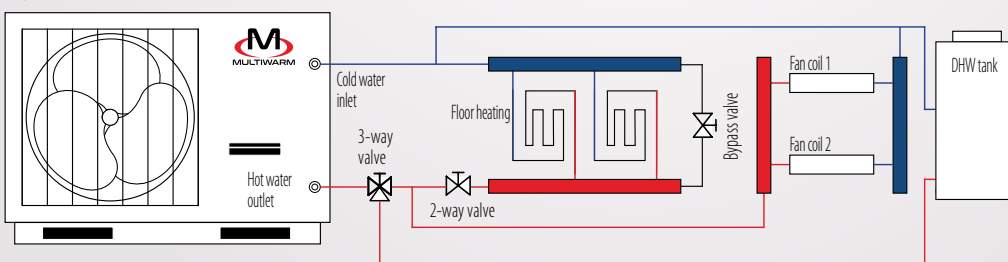
It is not necessary to make any connection to the refrigeration circuit, the hydraulic connections are sufficient.

DMC-HP-Z control

Group control, connect up to four R32 Monobloc or Split Series units, even combined together. Main functions:

- > Silent mode;
- > fast hot water;
- > Holiday mode;
- > Climate;
- > Child lock;
- > anti-legionella programming via electrical resistance in the tank;
- > Error reset;
- > Weekly timer.

System diagram



OUTDOOR UNITS



MCWNGS 402 - 602 - 802 Z
1-Phase

ENERGY CLASS

A+++

In heating mode with **35°C** delivery water temperature.

A++

In heating mode with **55°C** delivery water temperature.

Model				MCWNGS 402 Z		MCWNGS 602 Z		MCWNGS 802 Z			
Heating	Rated power	A7//W35	kW	5.00		6.00		8.00			
	Electrical absorption			0.93		1.11		1.63			
	Performance coefficient			5.40		5.40		4.90			
	Rated power	A7//W45	kW	4.90		6.80		8.00			
	Electrical absorption			1.17		1.66		2.11			
	Performance coefficient			4.20		4.10		3.80			
Cooling	Rated power	A35//W18	kW	5.00		6.50		8.00			
	Electrical absorption			0.96		1.27		1.65			
	Energy efficiency			5.20		5.10		4.85			
	Rated power	A35//W7	kW	4.90		5.70		7.20			
	Electrical absorption			1.40		1.75		2.25			
	Energy efficiency			3.50		3.25		3.20			
Seasonal heating data	Theoretical load (Pdesignh) @ -10℃	35/55	kW	5/5		6/5		7/7			
	Seasonal energy efficiency (ηs)		192/137		199/137		184/145				
	Energy efficiency class		-		A+++/A++		A+++/A++				
	Annual energy consumption		kWh/y		2306/2882		2386/2882		2979/3996		
Operating range	Outdoor air temperature	Heating	℃	-15~48				10~48			
		Cooling									
		DHW									
	Delivery water temperature	Heating	℃	-25~45				20~65			
		Cooling									
Refrigerant circuit data	Refrigerant ¹	type (GWP)		R32 (675)							
	Quantity (tons CO2)	kg (t)		0.95 (0.641)				1.23 (0.830)			
	Control system			Electronic expansion valve							
	Compressor	type		Rotary - DC Inverter							
Hydraulic data	Heat exchanger	Type	With brazed stainless steel plates								
		Flow rate								m³/h	0.7
	Circulation pump	Brand	Shinhoo								
		Static pressure ²	kPa	84		76		60			
	Water connections	Type	Threaded								
		Dimension								Inch	1" F BSP
	Operating pressure Min/Max			bar	0.5/2.5						
	Expansion vessel	Volume	L		2						
Pre-load		bar		1							
Electrical data	Power supply	Ph/V/Hz		1ph-230V-50Hz							
	Maximum current	Heating	A	11.00		11.00			17.00		
		Cooling		8.00		8.00			10.60		
	Power cable (recommended)			type	3x2.5 mm²				3x4 mm²		
Product specifications	Fan	Type	q.ty	DC Inverter x 1							
		Air flow	m³/h	3200							
	Sound power level			58						64	
	Sound pressure level	Heating	dB(A)	53						56	
		Cooling		51		52				55	
	Dimensions	WxDxH	mm	1150x365x735							
	Weight	Net	kg	90				95			
	Control (supplied)			Wired remote control							

1. Refrigerant leakage contributes to climate change. Refrigerants with a lower global warming potential (GWP) contribute less to global warming when released into the atmosphere than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. Therefore, if 1 kg of this refrigerant were released into the atmosphere, the impact on global warming would be 675 times greater than 1 kg of CO₂, over a period of 100 years. Under no circumstances should the user attempt to intervene on the refrigerant circuit or disassemble the product. If necessary, always contact qualified personnel. 2. Values net of exchanger pressure drops.

GENERAL NOTE:

The above data refers to the following standards: EN 14511:2018; EN 14825:2019; EN50564:2011; EN12102-1:2018; EN12102-2:2019; (EU)No:811:2013; (EU)No:813:2013; OJ 2014/C 207/02:2014.

OUTDOOR UNITS



MCWNGS 1002 - 1202 - 1402 - 1602 Z

1-Phase

ENERGY CLASS

A+++

In heating mode with **35° C** delivery water temperature.

A+++

In heating mode with **55° C** delivery water temperature.

10.20 kW model

A++

In heating mode with **55° C** delivery water temperature.

12.00-15.70 kW models

Model				MCWNGS 1002 Z		MCWNGS 1202 Z		MCWNGS 1402 Z		MCWNGS 1602 Z		
Heating	Rated power	A7//W35	kW	10.20		12.00		14.20		15.70		
	Electrical absorption			2.02		2.43		2.99		3.45		
	Performance coefficient			5.05		4.94		4.75		4.55		
	Rated power	A7//W45	kW	10.20		13.00		14.20		16.20		
	Electrical absorption			2.50		3.45		3.84		4.49		
	Performance coefficient			4.08		3.77		3.70		3.61		
Cooling	Rated power	A35//W18	kW	10.20		12.00		13.70		15.50		
	Electrical absorption			2.00		2.45		3.00		3.60		
	Energy efficiency			5.10		4.90		4.57		4.31		
	Rated power	A35//W7	kW	9.00		11.10		13.30		13.80		
	Electrical absorption			2.65		3.58		4.75		5.09		
	Energy efficiency			3.40		3.10		2.80		2.71		
Seasonal heating data	Theoretical load (Pdesignh) @ -10°C	35/55	kW	9/10		12/12		13/13		14/14		
	Seasonal energy efficiency (ηs)		176/152		188/149		185/147		184/146			
	Energy efficiency class		-		A+++/A+++		A+++/A++		A+++/A++			
	Annual energy consumption		kWh/y		4163/5486		5194/6388		5682/7352		6072/7675	
Operating range	Outdoor air temperature	Heating	°C	-25~35								
		Cooling		-15~48								
		DHW		-25~45								
	Delivery water temperature	Heating	°C	20~65								
		Cooling		5~25								
		Refrigerant ¹		type (GWP)		R32 (675)						
Refrigerant circuit data	Quantity (tons CO2)	kg (t)		1.6 (1.080)		2.2 (1.485)						
	Control system			Electronic expansion valve								
	Compressor	type		Rotary - DC Inverter								
Hydraulic data	Heat exchanger	Type	With brazed stainless steel plates									
		Flow rate	m³/h		1.7		2.1		2.4		2.8	
	Circulation pump	Brand	Shinwoo									
		Static pressure ²	kPa		57		50		36		20	
	Water connections	Type	Threaded									
		Dimension	Inch		1" F BSP							
	Operating pressure Min/Max			bar		0.5/2.5						
	Expansion vessel	Volume	L		2		3					
Pre-load		bar		1								
load	Power supply		Ph/V/Hz		1ph-230V-50Hz							
	Maximum current	Heating	A	25.00		29.00		30.00		30.00		
		Cooling		17.50		17.00		21.00		23.00		
	Power cable (recommended)			tipo		3x6 mm²						
Product specifications	Fan	Type	q.ty		DC Inverter x 1							
		Air flow	m³/h		5800		5015					
	Sound power level			dB(A)		68						
	Sound pressure level	Heating	dB(A)	56		58		59				
		Cooling		54		55		56				
	Dimensions			WxDxH		1206x445x878						
	Weight			Net		kg		114		132		
Control (supplied)				Wired remote control								

1. Refrigerant leakage contributes to climate change. Refrigerants with a lower global warming potential (GWP) contribute less to global warming when released into the atmosphere than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. Therefore, if 1 kg of this refrigerant were released into the atmosphere, the impact on global warming would be 675 times greater than 1 kg of CO₂, over a period of 100 years. Under no circumstances should the user attempt to intervene on the refrigerant circuit or disassemble the product. If necessary, always contact qualified personnel. 2. Values net of exchanger pressure drops.

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OUTDOOR UNITS



MCWSGS 1002 - 1202 - 1402 - 1602 Z
3-Phase

ENERGY CLASS

A+++

In heating mode with **35° C** delivery water temperature.

A+++

In heating mode with **55° C** delivery water temperature.
12.00-15.70 kW models

A++

In heating mode with **55° C** delivery water temperature.
10.20 kW model

Model				MCWSGS 1002 Z		MCWSGS 1202 Z		MCWSGS 1402 Z		MCWSGS 1602 Z		
Heating	Rated power	A7//W35	kW	10.20		12.00		14.20		15.70		
	2.06			2.49		3.09		3.57				
	Performance coefficient		COP	4.95		4.82		4.60		4.40		
	Rated power	A7//W45	kW	10.20		13.00		14.20		16.20		
	2.60			3.45		3.84		4.49				
	Performance coefficient		COP	3.92		3.77		3.70		3.61		
Cooling	Rated power	A35//W18	kW	10.20		12.00		13.90		15.40		
	2.13			2.61		3.32		4.05				
	Energy efficiency		EER	4.79		4.60		4.19		3.80		
	Rated power	A35//W7	kW	9.10		11.10		13.30		13.80		
	2.80			3.58		4.75		5.09				
	Energy efficiency		EER	3.25		3.10		2.80		2.71		
Seasonal heating data	Theoretical load (Pdesignh) @ -10°C	35/55	kW	9/10		12/12		13/13		13/14		
	Seasonal energy efficiency (ηs)		%	189/140		180/150		179/150		179/150		
	Energy efficiency class		-	A+++/A+++		A+++/A+++		A+++/A+++		A+++/A+++		
	Annual energy consumption		kWh/y	4069/5907		5517/6391		5927/7176		5927/7404		
Operating range	Outdoor air temperature	Heating	°C	-25~35								
		Cooling		-15~48								
		DHW		-25~45								
	Delivery water temperature	Heating	°C	20~65								
		Cooling		5~25								
Refrigerant circuit data	Refrigerant ¹	type (GWP)		R32 (675)								
	Quantity (tons CO2)	kg (t)		1.6 (1.080)		2.2 (1.485)						
	Control system			Electronic expansion valve								
	Compressor	type		Rotary - DC Inverter								
Hydraulic data	Heat exchanger	Type	With brazed stainless steel plates									
		Flow rate	m³/h	1.7		2.1		2.4		2.8		
	Circulation pump	Brand	Shinwoo									
		Static pressure ²	kPa	57		50		36		20		
	Water connections	Type	Threaded									
		Dimension	Inch	1" F BSP								
	Operating pressure Min/Max		bar		0.5/2.5							
	Expansion vessel	Volume	L	3								
Pre-load		bar	1									
Electrical data	Power supply		Ph/V/Hz		3ph-400V-50Hz							
	Maximum current	Heating	A	9.00		11.50		12.00		12.50		
		Cooling		6.00		5.00		8.00		8.50		
	Power cable (recommended)		type		5x2.5 mm²							
Product specifications	Fan	Type	q.ty	DC Inverter x 1								
		Air flow	m³/h	5800		5015						
	Sound power level		dB(A)		68							
	Sound pressure level	Heating	dB(A)	56		58		59				
		Cooling		54		55		56				
	Dimensions		WxDxH		mm		1206x445x878					
	Weight		Net		kg		124		138			
Control (supplied)				Wired remote control								

1. Refrigerant leakage contributes to climate change. Refrigerants with a lower global warming potential (GWP) contribute less to global warming when released into the atmosphere than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. Therefore, if 1 kg of this refrigerant were released into the atmosphere, the impact on global warming would be 675 times greater than 1 kg of CO₂, over a period of 100 years. Under no circumstances should the user attempt to intervene on the refrigerant circuit or disassemble the product. If necessary, always contact qualified personnel. 2. Values net of exchanger pressure drops.

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