

HEATING

HOT WATER

HWMBBS 2201 A | HWMBBS 2301 A | HWMBBS 2401 A

Monobloc heat pump water heater
200/300/400 liters "Ducted" series



Water heater with heat pump monobloc on base

R134A | Refrigerant gas

Stainless steel tank

60° C | Hot water with the compressor only

Anti-legionella cycle | Can be customized for different needs or can be excluded

Innovative soft touch control panel to facilitate commissioning, use & maintenance

ErP Ready

No integration with solar thermal



PERFORMANCE

MODEL	LOAD	ENERGY CLASS	COP According to EN 16147
HWMBBS 2201 A	200 L	A	2.64
HWMBBS 2301 A	300 L	A	2.69
HWMBBS 2401 A	400 L	A	2.81

Model		HWMBBS 2201 A	HWMBBS 2301 A	HWMBBS 2401 A
Tank volume	L	200	300	400
Solar integration coil (stainless steel)	m ²	not present	not present	not present
Rated thermal power ¹	W	2020	2020	2020
Electrical absorption nominale ¹	W	486	486	486
Rated hot water production capacity ¹	L/h	43.2	43.2	45
COP (rated) ¹	W/W	4.16	4.16	4.16
COPDHW ²	W/W	2.64	2.69	2.81
Test cycle profile ²	-	L	XL	XL
Volume of hot water at 40° ²	L	251	380	439
Energy efficiency class ³	-	A	A	A
IP Degree of protection IP	-	IPX1	IPX1	IPX1
Hot water T. adjustment interval	°C	10~70 (50 default)	10~70 (50 default)	10~70 (50 default)
Maximum DHW temperature only compressor	°C	60	60	60
Electrical data	Power supply	Ph-V-Hz 1-220~240V-50Hz		
	Integrative heating element	1500		
	Max. current (including heating element)	10.0		
Refrigerant circuit data	Refrigerant ⁴	Type (GWP)	R134a (1430)	R134a (1430)
	Quantity	kg	0.80	0.80
	Tons of CO2 equivalent	t	1.144	1.144
	Compressor	type	Rotary ON/OFF	
Product specifications	Dimensions (Diameter x Height)	mm	560 x 1755	640 x 1850
	Peso Net	kg	90	100
	Sound power level	dB(A)	55	56
	Sound pressure level a 2 m	dB(A)	46	46
Tank	Tank material	-	Stainless steel 304	
	DHW connections	Inches	G1" (DN25)	G1" (DN25)
	Solar coil connections	Inches	-	-
	Anode type	-	Titanium electrode with alarm LED	
	Maximum operating pressure	bar	10	10
	Operating range	°C	-5~+43	
Suctioned air	Air flow (ducted)	m ³ /h	400	450
	Fan static pressure	Pa	60	60
	Air duct - Diameter	mm	177	177
	Air duct - Max length	m	6	6

1. Conditions: intake air 20° C DB (15° C WB). inlet water 15° C / outlet 55° C. 2. Test according to EN16147; air 15° C for 200, 300 and 400L models.

3. Directive 2009/125/CE - ERP EU no. 814/2013. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerant with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 1430. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 1430 times higher than 1 kg of CO₂, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

HEATING

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COMFORT AT HOME

Programming to take advantage of any advantageous time slots on the electricity tariff and have hot water available when needed.

Two operating modes: maximum savings with the use of the compressor only or maximum speed with the simultaneous use of the heat pump and integrated electric resistance, to produce large quantities of DHW in a short time.

INSTALLATION INSTRUCTIONS

1. It is mandatory to install a safety and non-return valve on the cold water inlet. Otherwise, the equipment could be seriously damaged. Use a valve with 0.7 MPa setting. For the installation location, refer to the piping connection diagram.
2. The safety valve drain pipe must descend vertically and must not be placed in an environment at risk of freezing.
3. The water must be able to drip freely from the hose and its end must be left free.
4. The safety valve must be tested regularly to verify its functioning and to remove limescale that could block it.

SAFETY

Since the heat exchanger is external to the tank, no contamination between water and refrigerant fluid is possible.

Anti-legionella system: the danger of legionella bacteria is averted thanks to periodic cycles that raise the temperature of the water inside the accumulation above 65° C.

The titanium anode protects the tank from the corrosive action of water in an inexhaustible way: it guarantees greater reliability and lower maintenance costs compared to a solution with a magnesium anode.

HYDRAULIC CONNECTIONS DIAGRAM

