HOT WATER

HWMBS 2201 HEA | HWMBS 2301 HEA

HWMBS 2401 HEA | HWMBS 4401 HEA

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

Possibility of integration with solar thermal

GAS R134A

200L 300L 400L

Anti-legionella cycle

NEW 2024 HWMBS 4401 HEA

Water heater monobloc on base with possibility of integration with solar thermal

R134A | Refrigerant gas

Stainless steel tank

60° C | Hot water with the compressor only

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

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

ErP Ready

PERFORMANCE

MODEL	LOAD	ENERGY CLASS	COP According to EN 16147
HWMBS 2201 HEA	200 L	L A	2.61
HWMBS 2301 HEA	300 L	XL A	2.68
HWMBS 2401 HEA	400L	XL A	2.61
NEW HWMBS 4401 HEA	400 L	XL A	2.62

Model			HWMBS 2201 HEA	HWMBS 2301 HEA	HWMBS 2401 HEA	HWMBS 4401 HEA*
Tank volume		L	200	300	400	400
Solar integration coil (stainless steel)		m2	1.0	1.0	1.0	1.0
Rated thermal power[1]		W	2040	2040	2060	3285
Electrical absorption nominale[1]		W	465	460	477	895
Rated hot water production capacity[1]		L/h	43.5	43.5	45.0	70.5
COP (rated)[1]		W/W	4.39	4.43	4.32	3.67
COPDHW[2]		W/W	2.61	2.68	2.61	2.62
Test cycle profile[2]		-	L	XL	XL	XL
Volume of hot water at 40°[2]		L	250	390	434	434
Energy efficiency class[3]		-	A	A	A	A
IP Degree of protection IP		-	IPX1	IPX1	IPX1	IPX1
Hot water T. adjustment interval		°C	10~70 (50 default)	10~70 (50 default)	10~70 (50 default)	10~70 (50 default)
Maximum DHW temperature only compressor		°C	60	60	60	60
Electrical data	Power supply	Ph-V-Hz	1-220~240V-50Hz			
	Integrative heating element	W	1500			
	Max. current (including heating element)	A	10.0	10.0	10.0	13.0
Refrigerant circuit data	Refrigerant[4]	Type (GWP)	R134a (1430)	R134a (1430)	R134a (1430)	R134a (1430)
	Quantity	kg	1.0	1.0	1.0	0.9
	Tons of CO2 equivalent	t	1.430	1.430	1.430	1.287
	Compressor	type	Rotary ON/OFF			
Product specifications	Dimensions (Diameter x Height)	mm	560 x 1755	640 x 1850	700 x 1880	700 x 1880
	Peso Net	kg	95	105	115	118
	Sound power level	dB(A)	58.2	58.2	58	59.2
	Sound pressure level a 2 m	dB(A)	37.8	37.8	38	37.2
Tank	Tank material	-	Stainless steel 304			
	DHW connections	Inches	G1" (DN25)	G1" (DN25)	G1" (DN25)	G1" (DN25)
	Solar coil connections	Inches	G3/4" (DN20)	G3/4" (DN20)	G3/4" (DN20)	G3/4" (DN20)
	Anode type	-	Titanium electrode with alarm LED			
	Maximum operating pressure	bar	10	10	10	10
Suctioned air	Operating range	°C	-5~+43			
	Air flow (ducted)	m3/h	400	400	450	800
	Fan static pressure	Pa	60	60	60	60
	Air duct - Diameter	mm	177	177	177	177
	Air duct - Max length	m	6	6	6	6

*** DRAFT: data subject to change without notice.**

1. Conditions: intake air 20° C DB (15° C WB), inlet water 15° C / outlet 55° C. 2. Test according to EN16147; air 7° C.
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 persoonel if necessary.

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.

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.

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.

HYDRAULIC CONNECTIONS DIAGRAM