HOT WATER

HWMBS 2211 HEA | HWMBS 2311 HEA

HWMBS 2411 HEA | HWMBS 4411 HEA

Monobloc heat pump water heater 200/300/400 litres “Ducted” series

Possibility of solar thermal integration

GAS R134A

200L 300L 400L

anti-legionella cycle

INTEGRATED Wi-Fi

- Floor standing water heater with the possibility of integration with solar thermal energy
- **R134A** | Refrigerant gas
- **Stainless steel tank**
- **60° C** | Hot water with compressor only
- Improved **Titanium Anode** electronic management
- **Anti-legionella cycle** | Customizable for different needs or excludable
- Innovative soft touch control panel for easy commissioning, use and maintenance
- ErP Ready

PERFORMANCE & INCENTIVES

MODEL	LOAD	ENERGY CLASS	COP According to EN 16147	ECO BONUS*	BONUS CASA*	CONTO TERMICO 2.0*
HWMBS 2211 HEA	200 L	A	2.61	✓	✓	✓
HWMBS 2311 HEA	300 L	A	2.68	✓	✓	✓
HWMBS 2411 HEA	400 L	A	2.61	✓	✓	✓
HWMBS 4411 HEA	400 L	A	2.62	✓	✓	✓

* For Italian market only.

Model			HWMBS 2211 HEA	HWMBS 2311 HEA	HWMBS 2411 HEA	HWMBS 4411 HEA
Tank volume		L	200	300	400	400
Solar integration coil (Stainless Steel)		m^2	1.00	1.00	1.00	1.00
Nominal thermal power[1]		W	2040	2040	2060	3285
Nominal power consumption[1]		W	465	460	477	895
Nominal COP[1]		W/W	4.39	4.43	4.32	3.67
Nominal DHW production capacity[1]		L/h	43.50	43.50	45.00	70.50
COPDHW[2]		W/W	2.61	2.68	2.61	2.62
Test cycle profile[2]		-	L	XL	XL	XL
Hot water volume at 40°[2]		L	250	390	434	434
Energy efficiency (η wh)[3]		%	106	110	108	108
Energy efficiency class[3]		-	A	A	A	A
IP protection rating		-	IPX1	IPX1	IPX1	IPX1
Hot water temperature regulation range		°C	10~70 (50 default)	10~70 (50 default)	10~70 (50 default)	10~70 (50 default)
Maximum hot water temperature compressor only		°C	60	60	60	60
Electrical data	Power supply	Ph-V-Hz	1-220~240V-50Hz			
	Integrative electrical resistance	W	1500			
	Maximum current (including resistance)	A	10.00	10.00	10.00	13.00
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
	Tonnellate di CO2 equivalenti	t	1.430	1.430	1.430	1.287
	Compressor	type	Rotary ON/OFF			
Hydraulic data	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)
	Maximum operating pressure	bar	10	10	10	10
Air ducts	Air flow rate (with ducts)	m^3/h	400	400	450	800
	Fan's static pressure	Pa	60	60	60	60
	Internal diameter	mm	180	180	180	180
	Maximum length	m	6	6	6	6
Product specifications	Work field	°C	-5~+43			
	Anode type		Titanium electrode with alarm LED			
	Sound power level	dB(A)	58.2	58.2	58.0	59.2
	Dimensions (Diam. x H)	mm	Ø560x1745	Ø640x1840	Ø700x1880	Ø700x1880
	Net weight	kg	95	105	115	118
Controls	On-board machine control		Included			
	WiFi module		Integrated			

1. Conditions: intake air 20° C DB (15° C WB), water inlet 15° C / outlet 55° C. 2. Test according to EN16147; air 7°C, water inlet 10°C. 1.
3. Directive 2009/125/EC - ERP EU n. 814/2013 (TUV Sud certification for all models). 4. Refrigerant leakage contributes to climate change. If released into the atmosphere, refrigerants 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. Therefore, if 1 kg of this refrigerant were released into the atmosphere, 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 attempt to intervene on the refrigerant circuit or disassemble the product. If necessary, always contact qualified personnel.

COMFORT AT HOME

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

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

SAFETY

Since the heat exchanger is outside the tank, no contamination between water and refrigerant 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 tank 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 WARNINGS

1. It is mandatory to install a safety and non-return valve on the cold water inlet. Failure to do so may seriously damage the equipment. Use a valve with a 0.7 MPa setting. For the installation location, refer to the piping connection diagram.
2. The safety valve discharge pipe must be vertical and must not be placed in an environment at risk of freezing.
3. Water must be able to drip freely from the tube and its end must be left free.
4. The safety valve must be tested regularly to verify its functioning and to remove any limescale that may block it.

HYDRAULIC CONNECTION DIAGRAM