

Hot Water monoblock

200/300/500 litre **DUCTED** series

- with solar thermal energy



POSSIBILITY OF SOLAR THERMAL ENERGY INTEGRATION

- Floor-standing heat pump water heaters
- R134A refrigerant gas
- Titanium anode with alarm LED
- Additional 1.5 kW electric heating element
- Hot water up to 60°C with compressor alone; up to 70°C with electric heating element integration

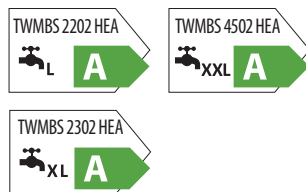
Capacity	Intake temperature (°C)		
	20	15	7
200	4.39*	-	2.61**
300	4.43*	-	2.68**
500	4.02*	-	2.66**

* Factory test with air intake 20°C DB (15° C WB), water inlet 15°C/outlet 55°C.

** Test according to EN 16147.

TWMS 2202 HEA
TWMS 2302 HEA
TWMS 4502 HEA

Energy class



GAS
R134A

Stainless
steel tank

UP TO
500L
CAPACITY

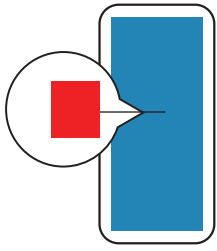
ANTI-LESIONELLA
CYCLE

EN 16147 certification
by accredited third party
laboratory TUV Sud

Model		TWMS 2202 HEA	TWMS 2302 HEA	TWMS 4502 HEA
Tank volume	L	200	300	500
Solar integration coil (stainless steel)	m ²	1.0	1.0	1.0
Rated thermal power ¹	W	2040	2040	3800
Rated power consumption ¹	W	465	460	945
Rated hot water production capacity ¹	L/h	43.5	43.5	82.0
COP (rated) ¹	W/W	4.39	4.43	4.02
COPDHW ²	W/W	2.61	2.68	2.66
Test cycle profile ²	-	L	XL	XXL
Volume of hot water at 40°C ²	L	250	390	594
Energy Efficiency Class ³	-	A	A	A
IP Degree of protection	-	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	Ph-V-Hz	1-220~240V-50Hz	
	Integrative heating element	W	1500	
Refrigerant	Maximum current (including heating element)	A	10.00	13.00
	Type (GWP) ⁴	-	R134a (1430)	R134a (1430)
	Quantity	kg	1.0	1.0
	Tons of CO2 equivalent	t	1.430	1.430
Compressor	-	-	Rotary ON/OFF	
Dimensions	Unit ø x H	mm	560 x 1755	640 x 1850
	Net weight	kg	95	105
Sound power level	dB(A)	58.2	58.2	59.2
Sound pressure level at 2 m	dB(A)	37.8	37.8	37.2
Tank	Tank material	-	Stainless steel 304	
	DHW hydraulic connections	inches	G1" (DN25)	G1" (DN25)
	Hydraulic solar coil connections	inches	G3/4" (DN20)	G3/4" (DN20)
	Titanium anode	-	Titanium electrode with alarm LED	
Suctioned air	Maximum operating pressure	bar	10	10
	Operating range	°C	-5~+43	
	Rated flow (not ducted)	m ³ /h	400	400
	Air flow (ducted)	Pa	60	60
	Air duct - Diameter	mm	177	177
Air duct - Length	m	6	6	

1. Conditions: air intake 20°C db (15°C WB), water inlet 15°C/outlet 55°C. 2. Test according to EN 16147; air intake 7°C. 3. Directive 2009/125/EC - ERP EU No. 814/2013 (TUV Sud certification for all models). 4. Refrigerant leakage contributes to climate change. When 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. 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.

Product benefits



Durable titanium anode

Titanium anode as standard with the Hot Water system.

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 alone or maximum speed with the simultaneous use of the heat pump and integrated electric heating element, to produce large quantities of DHW in a short time.

Safety

- Since the heat exchanger is outside the tank, no contamination between water and coolant 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 storage tank above 65°C.
- The titanium anode permanently protects the tank from the corrosive action of the water, ensuring greater reliability and lower maintenance costs than a magnesium anode solution.

5 installation modes

1. Recirculated air installation: air inlet and outlet take place in the installation premises.
2. Installation with internal air intake and air extraction outdoors.
3. Installation with intake from another room and expulsion outdoors
4. Installation with air intake from another room and expulsion to an internal room (with or without ducting).
5. Installation with air intake and extraction to the external environment.

System diagram with solar thermal energy integration

