

Line up

HEAT PUMP WATER HEATERS **HOT WATER**



Ducted Kitchen *series*

Indoor units	Range
	✓ 80 LITRES 0.95 kW
	✓ 100 LITRES 1.00 kW
	✓ 150 LITRES 1.30 kW

TWMMS 09080 J

TWMMS 09100 J

TWMMS 09150 J

Ducted *series*

Indoor units	Range
	✓ 200 LITRES 1.50 kW
	✓ 300 LITRES 1.50 kW
	✓ 400 LITRES 1.50 kW

TWMB 2203 J-1

TWMB 2303 J-1

TWMB 2403 J-1

WiFi and titanium anode included as standard

Ducted *series* **NEW**

Indoor units	Range
	✓ 460 LITRES 4.00 kW

TWMB 3500 K

WiFi and titanium anode included as standard





Low-GWP refrigerants for domestic hot water production

The TERMAL HOT WATER range uses refrigerants selected to meet new requirements in terms of energy efficiency, environmental sustainability and operating reliability. The choice of refrigerant is a key aspect in the design of heat pumps for domestic hot water production, as it affects performance, the product's climate impact, and installation and maintenance procedures.

In this context, the use of low-GWP refrigerants helps reduce the potential contribution to global warming, supporting the HVAC industry's regulatory transition towards increasingly responsible solutions.



R290, propane, is a natural refrigerant with an extremely low GWP and zero ODP, meaning it has no impact on the ozone layer. Its excellent thermodynamic properties support high levels of efficiency and make it particularly suitable for heat pumps dedicated to domestic hot water production.

R290 belongs to safety class A3: it is a low-toxicity refrigerant, but it is highly flammable. For this reason, it requires components, safety controls, installation procedures and maintenance operations that comply with the applicable regulations. When properly managed, it represents a high-performance solution with a particularly favourable environmental profile.



R454C is a new-generation low-GWP refrigerant developed to reduce environmental impact compared with traditional refrigerants. With a GWP value below the 150 threshold, it is one of the most interesting solutions for applications aligned with the ecological transition and the gradual reduction of high-impact fluorinated gases.

R454C belongs to safety class A2L: it is a low-toxicity and mildly flammable refrigerant, with a lower flammability level than A3 refrigerants. It offers a well-balanced combination of efficiency, application safety and sustainability, making it suitable for systems designed according to the technical and regulatory requirements for mildly flammable refrigerants.

Hot Water

Hot Water monobloc 460 litres at **R454C** **Ducted** series

NEW

INTEGRATED
Wi-Fi



TWMBS 3500 K

- Floor-standing heat pump water heaters
- **R454C refrigerant gas (GWP=146, class A2L)**
- Titanium anode with alarm LED
- 4 kW compressor and 1.5 kW integrative electric resistance
- Hot water up to 65°C with compressor alone; up to 70° C with electric heating element integration

Energy class

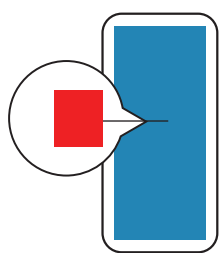


Model		TWMBS 3500 K	
Tank volume	L	460	
Rated thermal power ¹	W	4000	
Rated power consumption ¹	W	960	
COP (rated) ¹	W/W	4.17	
Rated hot water production capacity ¹	L/h	86.0	
COPDHW ²	W/W	2.79	
Test cycle profile ²	-	XXL	
Hot water volume at 40°C ²	L	522	
Energy efficiency (η _{wh}) ³	%	111.7	
Energy Efficiency Class ³	-	A	
IP protection rating	-	IPX 1	
Hot water T. adjustment range	°C	35 - 70	
Maximum hot water T. compressor only	°C	65	
Electrical data	Power	Ph-V-Hz	1-220~240V-50Hz
	Integrative heating element	W	1500
	Maximum current (including heating element)	A	10.00
Refrigerant circuit	Refrigerant ⁴	type (GWP)	R454C (146)
	Quantity	kg	0.65
	Compressor	type	Rotary Inverter
Hydraulic data	Tank material	-	Stainless steel 304
	DHW hydraulic connections	inches	G 3/4" (DN20)
	Maximum operating pressure	bar	10
Air ducts	Air flow (without ducts)	m ³ /h	650
	Fan static pressure (max)	Pa	45
	Inside diameter	mm	180
Product specifications	Length Max	m	8
	Operating range	°C	-10~43
	Titanium anode	Titanium electrode with alarm LED	
Controls	Sound power level	dB(A)	51
	Dimensions (D x H)	mm	ø800 x 1880
	Net weight	kg	125
Controls	Wired control on board the machine	Included	
	WiFi Module	Integrated	

1. Conditions: intake air 20°C DB (15°C WB), water inlet 15°C / outlet 55°C. 2. Tested according to EN16147; air 7°C, water inlet 10°C.

3. Directive 2009/125/EC - ERP EU n. 812/2013 (SGS-CSTC 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 146 if 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 146 times less 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.

■ Hydraulic connections diagram

