

Electa-SAN Plus

TWCTZ 200-300

DHW capacity 200-300 L

Features



Renewable energy water heater

Energy class A+

Standard version and with additional solar thermal coil

Heat pump operation with outdoor air temperature from -10°C to +43°C

Contact for integration with photovoltaic system

Tax incentives*



**Air-water heat pump for the production of domestic hot water.
Rotary hermetic compressor and R134a refrigerant gas.**

Construction features

- Carbon steel tank with double layer vitrification and internal treatment according to standards DIN 4753-3.
- Anti-corrosion magnesium anode to ensure the durability of the tank.
- Condenser wrapped externally to the boiler, free from scaling and chiller liquid-water contamination.
- Auxiliary coil for use in combination with solar panels (TWCTZ-S only)
- Thermal insulation in thick expanded polyurethane (PU) (45 and 50 mm).
- Sheet metal coating painted color RAL839.
- Acoustically insulated plastic top cover.
- High efficiency compressor with R134a refrigerant.
- Electronic expansion valve.
- Finned coil heat exchanger with hydrophilic treatment for TCWTZ.
- Safety devices for high and low gas pressure.

- Electrical resistance available in the unit as a back-up with a safety thermostat, which ensures hot water at a constant temperature even in extreme winter conditions.

Electronic control and user interface for unit management:

- Tank temperature display.
- Domestic hot water set-point adjustment.
- Clock display and switch-on and shutdown timer.
- Electrical resistance management, in manual mode or in automatic integration.
- Anti-legionella cycle function, with activation timer.
- Indication of any alarms and malfunctions.
- Contact for integration with a photovoltaic system: the temperature set is raised to the highest possible value, on photovoltaic inverter enabling.
- ON-OFF contact to start the unit from an external switch.
- RS485 interface for serial communication with other devices (Modbus RTU protocol).

Version

- TWCTZ-B: water heater with heat pump.
- TWCTZ-S: water heater with heat pump and additional solar thermal coil.

Technical data

		Electa-SAN Plus	Electa-SAN Plus	Electa-SAN Plus	Electa-SAN Plus
		TWCTZ-B 200	TWCTZ-B 300	TWCTZ-S 200	TWCTZ-S 300
MODEL					
Tank capacity	l	180	270	174	261
❶ Heating capacity	W	1800	1800	1800	1800
Absorbed power	W	460	460	460	460
Electrical resistance power	W	1500	1500	1500	1500
Maximum operating pressure	bar	7	7	7	7
❷ COPDHW		3,14	3,16	3,14	3,16
❸ COPDHW		3,37	3,58	3,37	3,58
❶ heating up time	h:min	04:46	07:02	04:46	07:02
❶ heating up time with active resistance	h:min	02:36	04:01	02:36	04:01
❷ Maximum volume of DHW usable at 40°C	l	239	349	239	349
Solar thermal coil surface	m ²	-	-	1	1,5
Maximum solar coil operating pressure	bar	-	-	7	7
Nominal air flow	m ³ /h	450	450	450	450
Air flow rate at the maximum available static pressure 60 Pa	m ³ /h	350	350	350	350
Internal sound power	db(A)	58	59	58	59
❶ Sound pressure	db(A)	43	44	43	44
Electrical supply	V-ph-Hz	230-1-50	230-1-50	230-1-50	230-1-50
Maximum absorbed power	W	560	560	560	560
Absorbed power in standby (Pes)	W	32	37	32	37
Protection rating	IP	IPX1	IPX1	IPX1	IPX1
DIMENSIONS AND WEIGHTS					
MODEL		TWCTZ-B 200	TWCTZ-B 300	TWCTZ-S 200	TWCTZ-S 300
L – Width	mm	560	640	560	640
H – Height	mm	1770	1880	1770	1880
P – Depth	mm	590	670	590	670
Empty weight	kg	92	112	113	136
Weight with a full water tank	kg	272	382	287	397
ENERGY PERFORMANCE					
MODEL		TWCTZ-B 200	TWCTZ-B 300	TWCTZ-S 200	TWCTZ-S 300
WATER HEATING					
❶ Load profile		L	XL	L	XL
❶ η _{wh}	%	132,3	131,5	132,3	131,5
❶ Energy class		A+	A+	A+	A+
❶ Annual energy consumption	kWh/annum	774	1274	774	1274

Data at the following conditions:

- ❶ Air 20°C D.B. – 15°C W.B.; water from 15°C to 55°C.
 - ❷ Air 7°C D.B. – 6°C W.B.; water from 10°C to 55°C (EN 16147).
 - ❸ Air 14°C D.B. – 12°C W.B.; water from 10°C to 55°C (EN 16147).
 - ❹ According to ISO 3744:2010 at 1 m from the unit
 - ❺ Water heating energy efficiency in average climatic conditions (+7°C). (Regulations (EU) No.812/2013 and No.814/2013 – class between F and A+)
- Operating range:
- Inlet air/working ambient temperature: -10 to 43°C
 - Domestic hot water up to 60°C for TWCTZ, 65°C for TWCZ.



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