

Electa-SAN TWCZ 200-300



Capacity: 200÷300 L

- √ **Renewable energy water heater**
- √ **Standard version and with additional coil for solar thermal**
- √ **Domestic hot water production up to 65°C (up to 75°C with supplementary electrical resistance)**
- √ **Heat pump operation with outdoor air temperature from -10°C to +43°C**
- √ **Contact for integration with photovoltaic system**



Web code: ESW01

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 and UNI 10025.
- 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 (TWCZ-S only)
- Thermal insulation in thick expanded polyurethane (PU) (45 mm).
- External coating in RAL7035 grey plastic material
- Acoustically insulated plastic top cover.
- High efficiency compressor with R134a refrigerant.
- Electronic expansion valve.
- Safety devices for high and low gas pressure.
- Electrical resistance available in the unit as a back-up (with an integrated safety thermostat at 90°C), which ensures hot water at a constant temperature even in extreme winter conditions.

Electronic control and user interface for unit management:

- Tank temperature display.
- 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.
- Defrost with automatic activation of supplementary electrical resistance.
- Indication of any alarms and malfunctions.
- ON-OFF contact to start the unit from an external switch.
- Contact for integration with a photovoltaic system: the temperature set is raised to the highest possible value, on photovoltaic inverter enabling.
- Option to manage domestic hot water recirculation or solar integration.

Version

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

Technical Data

MODEL		TWCZ-B 200	TWCZ-B 300	TWCZ-S 200	TWCZ-S 300
Tank capacity	l	228	286	220	278
① Heating capacity	W	1870	1870	1870	1870
Absorbed power	W	503	503	503	503
Electrical resistance power	W	1200	1200	1200	1200
Maximum tank operating pressure	bar	10	10	10	10
② COPDHW		2,64	2,85	2,64	2,85
③ COPDHW		2,81	3,03	2,81	3,03
④ Top-up times	h:min	05:38	06:57	05:38	06:57
④ Top-up times with active resistance	h:min	03:03	03:46	03:03	03:46
② Maximum volume of DHW usable at 40°C	l	291	390	291	390
Solar thermal coil surface	m ²	-	-	1,2	1,2
Maximum solar coil operating pressure	bar	-	-	6	6
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	58	58	58
④ Sound pressure	db(A)	43	43	43	43
Electrical supply	V-ph-Hz	230-1-50	230-1-50	230-1-50	230-1-50
Maximum absorbed power	W	765	765	765	765
Absorbed power in standby (Pes)	W	40	40	40	40
Protection rating	IP	IPX1	IPX1	IPX1	IPX1

DIMENSIONS AND WEIGHTS

MODEL		TWCZ-B 200	TWCZ-B 300	TWCZ-S 200	TWCZ-S 300
L - Width	mm	655	655	655	655
H - Height	mm	1638	1888	1638	1888
P - Depth	mm	706	706	706	706
Empty weight	kg	112	122	127	137
Weight with a full water tank	kg	326	393	333	400

ENERGY PERFORMANCE

		TWCZ-B 200	TWCZ-B 300	TWCZ-S 200	TWCZ-S 300
WATER HEATING					
④ Load profile		L	XL	L	XL
④ η_{wh}	%	101	117	101	117
④ Energy class		A	A	A	A
④ Annual energy consumption	kWh/annum	1012	1426	1012	1426

Data at the following conditions:

- ① Air 20°C D.B. - 15°C W.B.; water from 15°C to 55°C.
- ② Air 7°C D.B. - 6°C W.B.; water from 10°C to 55°C (EN 16147).
- ③ Air 14°C D.B. - 12°C W.B.; water from 10°C to 55°C (EN 16147).
- ④ According to ISO 3744:2010 at 1 m from the unit
- ④ Water heating energy efficiency in average climatic conditions (+7°C). (Regulations (EU) No.812/2013 and No.814/2013)

RHOSS S.P.A. declines all responsibility for possible mistakes in this document and reserves the right to alter the features of their products without notice.

Rhoss S.p.A.
Via Oltre Ferrovia, 32
33033 Codroipo (UD) - Italy
tel. +39 0432 911611 - rhoss@rhoss.it
www.rhoss.it www.rhoss.com



RhossOfficial



RhossOfficialChannel



Rhoss