



OKSOL

OKSOL by **ORKLI** is a state-of-the-art, all-in-one, autonomous, forced (highly efficient) and 100% renewable thermal solar system for the **instantaneous production of domestic hot water** (DHW) by means of solar technology and without the need of a DHW tank.

The all-in-one system includes an absorber, a forced recirculation system with **drain-back technology**, a 170-litre water tank and the rest of components for an easy plug&play installation.

The recirculation pump is powered by solar photovoltaic (PV) technology works, which makes OKSOL a completely autonomous system with no need of external electrical connection.

Only requirements for installation are the inlet and outlet connections for sanitary water.



• TECHNICAL DATA

SOLAR ABSORBER	
ТҮРЕ	Selective PVD
ABSORPTION SURFACE	2,16 m ²
ABSORPTIVITY	95%
EMISSIVITY	5%

COVER	
ТҮРЕ	Solar <u>Glass</u>
THICKNESS	3,2 mm.
TRANSMITTANCE	> 90%

SIDE AND BACK INSULATION	
ТҮРЕ	PIR-ALU panels
THICKNESS	30 mm.
DENSITY	35 kg/m ³
CONDUCTIVITY	0,023 W/m∙K

INSULATION BETWEEN TANK AND ABSORBER	
ТҮРЕ	Rock <u>wool</u>

THICKNESS	25 mm.
DENSITY	50 kg/m ³
CONDUCTIVITY	0,035 W/m·K

OUTER CASE	
MATERIAL	РР
LENGHT	2.187x1.160x270 mm.

OTHER DATA

WEIGHT	95 kg.
WARRANTY	3 years

TANK	
ТҮРЕ	PE
CAPACITY	170 l.

DHW HEAT-EXCHANGER	
MATERIAL	Stainless Steel AISI 316L
LENGHT	16.25 m.







• COMPONENTS CHARACTERISTICS

CIRCULATION PUMP

Туре	Magnetic, brushless
Flow rate max.	12.6 l/min
Max height	3.2 m
Voltage DC	12 V

SAFETY VALVES - PRIMARY CIRCUIT

Туре	Pressure
Max. service pressure	3 bars
Max. operating temperature	160 °C

PHOTOVOLTAIC PANEL

Туре	Polycrystalline silicon
Rated power	10 W

• SYSTEM OUTPUT INDICATORS

Simulation of the thermal behavior of the solar system, and calculation of its annual energy gain for reference weather and standardised hot water draw-off profiles (according to EN 12976-2):

City	Q_d	Q	F _{sol}	Q _{par}	V daily draw-off
Stockholm	2791	1595	0.571		50
Würzburg	2676	1597	0.597		50
Davos	3028	2393	0.790		50
Athens	2080	1889	0.908		50
Stockholm	4465	2390	0.535		80
Würzburg	4282	2415	0.564		80
Davos	4845	3559	0.734		80
Athens	3327	2896	0.870		80
Stockholm	6140	2867	0.467		110
Würzburg	5888	2954	0.502		110
Davos	6662	4186	0.628		110
Athens	4575	3660	0.800		110

Qd = Heat demand (MJ). QL = Heat energy produced by the solar system (MJ). Fsol = Solar fraction (%). V daily load = Volume demand (I/day).

OPTIONAL ELECTRIC RESISTANCE

•Suitable as a support for water heating, or as an anti-freeze protection system. •Power = 1.500 W.



CERTIFICATIONS

KEYMARK 011-7S3007 A.



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