Hewalex

SOLAR THERMAL TECHNOLOGY

FLAT-PLATE SOLAR COLLECTOR

Product Data Sheet

For reference only

KS2600F TLP ACR H

Maximised Efficiency

The collector's efficiency is maximised thanks to an increased proportion of heat-producing absorber area in relation to the total area, combined with the use of anti-reflective glazing. A high total area, plus higher connecting pipe diameters allow to reduce the number of connections, which makes a great difference for systems comprising a larger number of collector units.

Areas of Application

This collector unit is designed for heating water in DHW systems, swimming pools, as well as for seasonal support of a building's CH system. With full thermal insulation of its encasement, its design suits all climates, including cold climate weather conditions.

Superb Quality and Reliability

The collector holds the European Solar Keymark, ref. no. 011-7S3265 F, issued on the basis of tests carried out in accordance with EN 12975-1 and EN ISO 9806, which confirms the high quality and reliability of our devices.

POLSKI PRODUCENT 30 LAT W BRANŻY OZE

TOP10 Europejskich producentów płaskich kolektorów słonecznych SOLRICO 2015-2018

SOLAR KEYMARK

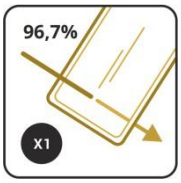
Main Features

Solar Selective Absorber Coating

The absorber's PVD coating enables the high absorptivity of solar irradiation of up to 95%, with minimal heat loss thanks to an emissivity of 5%.

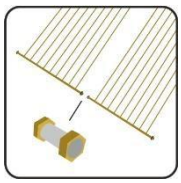
Efficient Thermal Insulation

With mineral wool thermal insulation in the bottom of the encasement, the units can work in varied climate conditions and at elevated operating temperatures.



Solar Anti-Reflective Glazing

Increased solar transmittance for solar glazing thanks to anti-reflective coatings provides higher insolation values of the absorber, enhancing the collector efficiency.



Convenient and Secure Connections

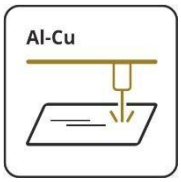
The four G5/4" connecting pipes work with o-ring seals made of heat- and steam-resistant Viton®, with factory fittings.

Harp-Type Absorber

The harp design ensures low flow resistance, gives multiple collector connection options and improves protection against overheating.

Resistant to Extreme Conditions

Certified by Solar Keymark, the design proves resistant to extreme heat and pressure, thermal shock, wind load and hail impacts up to 45 mm in hail ball diameter.



Al-Cu Absorber

A durable and corrosion-resistant aluminium-copper (Al-Cu) absorber, manufactured with cutting-edge laser welding technology, this solution helps boost the efficiencies of our collectors.

A Standard 10-Year Warranty

Long warranty periods is what has set apart HEWALEX products ever since the company started. This means customers can rest assured they are taken care of by a strong market player.

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Design Characteristics

- An aluminium absorber plate with highly solar selective coating and copper piping, using fixed connections with the plate by means of laser welding technology
- A harp-type absorber with four connecting pipes for increased protection of the heat transfer fluid against overheating caused by failures or power outage, which allows users to avoid fitting the system with back-up power sources
- Solar, **anti-reflective** glazing with a thickness of 3.2 mm, toughened, resistant to maximum hail according to EN ISO 9806 (hail diameter up to 45 mm)
- An aluminium frame encasing structure, powder-coated, with an aluminium bottom box insulated with mineral wool
- Fixing system components in aluminium and stainless steel

Solar Collector Model		**KS2600F TLP ACR H**
Part no.		C
Overall Dimensions (Length × Width × Height)	mm	2022 × 1296 × 90
Total (Gross) Area	m^2	2.62
Absorber Area (Aperture)	m^2	2.48
Optical Efficiency η_{oA} rel. to Aperture Area [1]	%	84.3
Heat Loss Coefficient a_{1A} rel. to Aperture Area [1]	$W/(m^2K)$	4.089
Heat Loss Coefficient a_{2A} rel. to Aperture Area [1]	$W/(m^2K^2)$	0.007
Maximum Power Output/Collector Unit [1]	W	2059
Liquid Capacity	dm^3	1.96
Weight (w/o Working Fluid)	kg	42
Recommended Fluid Flow Rate (minimum / nominal / maximum)	l/min	1.5/2.2/3.0
Hail Resistance, as per EN ISO 9806 [1]	--	Hail balls up to 45 mm in diameter
Maximum Positive/Negative Load [1]	Pa	2400 / 5400
Maximum Operating Pressure [1]	bar	10
Maximum Operating Temperature [1]	°C	210
Stagnation Temperature [1]	°C	190
Manufacturer's Warranty:		10 years
Solar Keymark Certificate Ref No.		011-7S3265 F

[1] *Based on Annex to the Solar Keymark certificate*

Additional Accessories

HEWALEX complements its comprehensive range by offering components for solar heat collecting systems, also available as factory-fitted kits. Our solar collectors can be additionally equipped with mounting brackets, connection kits and other plumbing accessories.

Product sheet prepared in accordance with the Commission Delegated Regulation (EU) 811/2013 and 812/2013

Supplier's name, address		HEWALEX Sp. z o.o. Sp. k. ul. Słowackiego 33 43-502 Czechowice-Dziedzice, Poland
Supplier's model identifier	--	**KS2600F TLP ACR H** part no. 14.91.03
Reference Area Asol	m²	2.62
Collector efficiency ηcol (ΔT= 40 K)	%	62
Zero-loss efficiency η_o	--	0.79
First-order coefficient a_1	W/(m²K)	3.87
Second-order coefficient a_2	W/(m²K²)	0.007
Incidence angle modifier IAM 50°	--	0.95

Parameters of solar collectors are given in relation to the total area according to ISO 9806.