

High-efficiency solar collectors

For 35 years Hewalex has focused on creating solar collectors that are not only efficient and durable but also aesthetically pleasing.

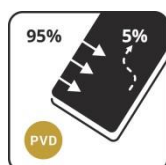
The optimal solution

Flat plate solar collectors for an optimal effectiveness and its great price-to-purchase ratio. It allows you to increase the solar energy yield and to reduce the number of collector connections in field.

Applications

The collectors are adaptable for both small and large solar installations, making them ideal for heating domestic hot water, swimming pool water, and offering seasonal support for central heating systems. They are also suitable for any industrial and agricultural applications where heat is required. Their design ensures they can operate efficiently in any climate, including cold conditions.

Illustrative drawing only



Selective PVD coating

Covering of the PVD type of the absorber allows high absorption of solar radiation up to 95% with minimum heat loss thanks to 5% emissivity.



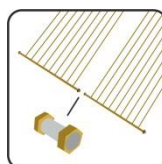
Effective thermal insulation

Thermal mineral wool insulation of the casing bottom allows working in various conditions and at high operating temperatures.



Structured glass

The highest U1 class of solar radiation transmission through the glass (up to 96,7%) increases the insulation of the absorber, increasing the efficiency of the collector.



Versatile connection options

The harp system and flexible connections between the collectors allow you to connect up to 8 collectors in parallel or up to 5 in series.



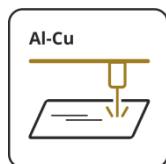
Harp-type absorber

The harp system provides low flow resistance, allows the use of different collector connection options and has a positive effect on overheating protection.



Resistance to extreme conditions

The collectors have been tested for durability in extreme and long-lasting working conditions, such as thermal shocks, hail of 45 mm and mechanical loads of up to 2.400 Pa.



Al-Cu absorber

The use of an Al-Cu absorber (aluminium-copper) allows you to maintain high efficiency at a favorable purchase price, which increases the profitability of the investment.



10-year warranty included

Since its very foundation, Hewalex has been renowned for its long warranty periods. In this way we give our clients the assurance of product certainty and further care.

Flate plate collector		KS2100F TLP AC	KS2600F TLP AC	KS2100F TLP ACR	KS2600F TLP ACR
Technical data					
Gross area	m ²	2.06	2.62	2.06	2.62
Absorber area	m ²	1.93	2.47	1.93	2.47
Aperture area	m ²	1.93	2.47	1.93	2.47
Dimensions (L x W x H)	mm	2022 x 1019 x 90	2022 x 1295 x 90	2022 x 1019 x 90	2022 x 1295 x 90
Housing		aluminium profile			
Insulation		mineral wool			
Glazing		solar glass		solar glass, anti-reflective	
Maximum power output	W	1550	1972	1630	2073
Optical efficiency related to the gross area		76.4	76.4	80.2	80.2
Heat loss coefficients related to the gross area	a _{1G}	W/(m ² K)	3.17	3.17	3.34
	a _{2G}	W/(m ² K ²)	0.012	0.012	0.014
Optical efficiency related to the aperture	%	81.6	81	85.6	85.1
Heat loss coefficients related to the aperture	a _{1A}	W/(m ² K)	3.38	3.36	3.56
	a _{2A}	W/(m ² K ²)	0.013	0.013	0.015
Incidence angle modifier IAM 50°	--	0.95	0.95	0.95	0.95
Gross thermal yield at mean fluid temperature $\vartheta_m = 50^\circ$ (Würzburg)	kWh	1037	1319	1089	1385
Flow rate (min. / nominal / max.)	l/min.	1.2 / 1.8 / 2.5	1.5 / 2.2 / 3.0	1.2 / 1.8 / 2.5	1.5 / 2.2 / 3.0
Weight (without fluid)	kg	32.2	39.3	32.7	40
Absorber fluid capacity	dm ³	0.9	1.14	0.90	1.14
Heat transfer medium	--	water – glycole			
Installation tilt angle range		5° – 90°			
Maximum operating pressure	bar	10	10	10	10
Maximum operating temperature	°C	250	250	250	250
Stagnation temperature	°C	210	210	200	200
Maximum tested mechanical load positive / negative	Pa	2400 / 2400	2400 / 2400	2400 / 2400	2400 / 2400
Hail resistance according to the standard EN ISO 9806	--	hail up to 45 mm in diameter			
Manufacturer warranty	--	10 years			
Solar Keymark registration number		011-7S2822 F		011-7S2823 F	

Delivery conditions and additional information

Collectors can be supplied individually or in complete solar sets.

Flate plate collectors	KS2100F TLP AC KS2100F TLP ACR	KS2600F TLP AC KS2600F TLP ACR
Number of collectors per pallet	12 pcs.	12 pcs.
Dimensions of cargo (L × W × H)	1,2 × 1,16 × 2,2	1,2 × 1,4 × 2,2

Additional equipment

We design and produce easy-to-install reliable aluminum mounting systems dedicated to various types of roofs. Our offer includes connection sets and other hydraulic accessories.

