High grade solar thermal components
Made in Berlin

K720–TS
FLAT PLATE COLLECTOR

K7 – THE ATTRACTIVE ALL-ROUNDER
Efficiency and elegance combined

Thin, metallic shining border
inside provides an elegant look.

Outstanding glass strips – collectors can be pushed together
optically closer than normal frame collectors.

Plastic caps with appealing design as impact protection
and drainage of the first sealing level

	Reference area	
Type of construction	Flat plate collector for thermosiphon systems for on-roof, flat-roof and field mounting	
Absorber type	KBB absorber with aluminum sheet and copper tubes Absorber with 8 harp tubes ø 8 mm and 2 manifolds ø 18 mm	
Measurements (L x B x H)	1884 x 1035 x 77 mm	
Gross area	1,95 m²	
Aperture area	1,84 m²	
Total weigt dry	29 kg	
Liquid content	1,1 l	
Reference area	Gross area	Aperture area
Efficiency $\eta_{0,b}$	71,1 %	75,4 %
Heat loss coefficient a1	3,472 W/m²K	3,680 W/m²K
Heat loss coefficient a2	0,012 W/m²K²	0,013 W/m²K²
Annual collector output (Würzburg, 50°C)	454 kWh/m²	
Max stagnation temperature	188°C (G_s=1000 W/m², ϑ_{as}=30°C)	
Absorber coating	High selective coating on aluminum sheet	
Absorption / emissivity	95 % / 5 %	
Covering	Low iron, structured solar safety glass (ESG)	
Transmission of covering	91,5 %	
Impact resistance of covering	Cover passed the optional impact resistance tests acc. ISO 9808	
Nominal flow	90 l/h (low flow: 40 l/h)	
Nominal pressure loss	4 mbar (low flow: 2 mbar, water/propylene-glycol / 20°C)	
Hydraulic connection	Parallel connection with collectors side-by-side	
Collector connection	Sideways 4 connectors ø 18mm bare tube for compression fitting	
Max operation pressure	10 bar	
Thermal insulation	Mineral wool 30 mm	
Collector case	Aluminum frame, glass strip powder coated	
Permissible wind and snow load	3 kN/m² suction, 3 kN/m² pressure	
Angle of inclination	15° – 75°	
Recommended heat transfer fluid	Antifreeze mix based on propylene-glycol	
Guarantee	10 years	

Technical modifications and errors excepted. v18.01