

On-roof collector

# SKR500/SKR500L



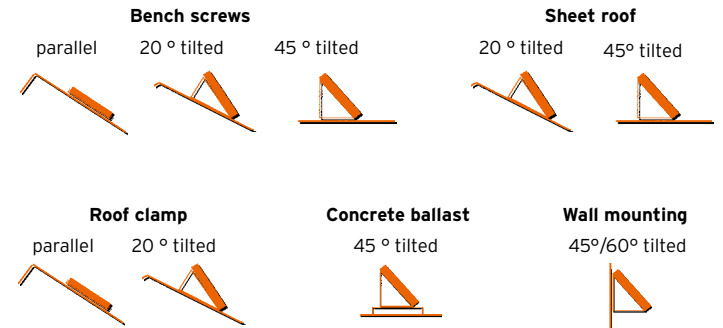
# On-roof collector **SKR500**

The brand new and exclusive SONNENKRAFT collector combines the latest technology with established know-how. The new SKR500 is the first collector with a frameless design and extremely fast Plug & Flow® installation. The fastening system allows fast installation using just one standard tool. The flat, lightweight and frameless collector looks good in all standard installation variants.

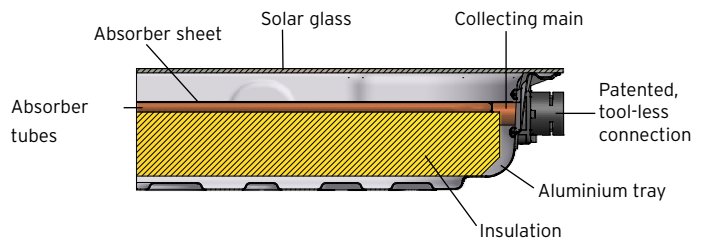
## Specifications SKR500

Name		SKR500	SKR500L
Collectortype		Flat collector	
Mounting type		On-roof mounting	
Gross area	m <sup>2</sup>	2.57	
Aperture area	m <sup>2</sup>	2.26	
Absorber area	m <sup>2</sup>	2.30	
Length	mm	2079	1240
Width	mm	1240	2079
Height	mm	95	
Weight empty	kg	38	38.5
Collector capacity	l	1.45	1.72
Max. operating pressure	bar	10	
Idle temperature	°C	174	
Recommended throughput	l/m <sup>2</sup> h	10 - 35	
Collector field piping		max. 12 pcs. parallel	max. 10 pcs. parallel
Min. collector incline	°	15	
Max. collector incline	°	75	
Connections		18 mm copper pipe	
Absorber		Full surface aluminium absorber, highly selective vacuum coating	
Hydraulic design		Meander	
Absorption (α) / Emission (ε)		0.95 / 0.05	
Collector housing		Deep-drawn, salt water resistant aluminium tray	
Heat insulation		50 mm mineral wool	
Collector glazing		3.2 mm toughened, low iron solar safety glass	
Efficiency (Aperture/Absorber) $\eta_{0a} / \eta_{0A}$		0.820 / 0.806	0.794 / 0.781
Heat transfer coefficient $a_{sa} / a_{sA}$	W/(m <sup>2</sup> K)	3.821 / 3.758	3.514 / 3.456
Temperature depending heat transfer coefficient $a_{2a} / a_{2A}$	W/(m <sup>2</sup> K <sup>2</sup> )	0.0108 / 0.0106	0.0147 / 0.0145
Angle correction factor $K_{\theta}$ (50°)		0.96	
Solar Keymark Reg.Nr.		011-7 S1277F	011-7 S1284F

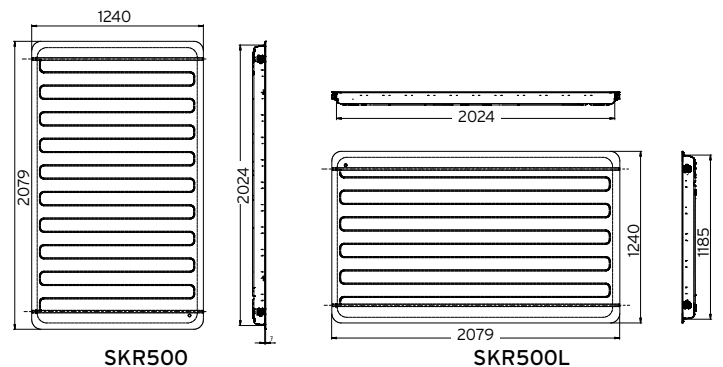
## Fastening system SKR500



## Cross section SKR500



## Dimensions



## Benefits of the on roof collector SKR500

- Unique frameless design
- Specific fastening system - installed using just one tool
- Improved performance levels
- Self-draining and hence excellent stagnation behaviour
- Fastening system for all standard areas of application
- Exclusive to SONNENKRAFT customers
- Stylish collector with 2.57m<sup>2</sup> of gross area, weighing just 38 kg
- Patented, tool-free, hydraulic quick connector
- Collector and fastening statically calculated in accordance with applicable standard EN 1991
- Available as an upright or horizontal format collector

