

On-roof collector

SK400N-AL



On-roof collector **SK400N-AL**

The main advantage of this collector with is its handy 2,09 m² Collector area and its ability to be used flexibly on any roof. The aluminium full-surface absorber and its highly-selective vacuum coating, high-quality insulation and the attractive and sturdy aluminium tray make the SK400 one of the best collectors of its type. The compact design enables a economic match of collector area and storage tank volume. The user-friendly mounting system is suited for all popular roof types and roof inclinations.

Specifications SK400N-AL

Name		SK400N-AL
Collector type		Flat collector
Mounting type		On-roof mounting
Gross area	m ²	2.09
Aperture area	m ²	1.78
Absorber area	m ²	1.77
Length	mm	2031
Width / Width incl. Connection	mm	1031 / 1058
Height	mm	90
Weight empty	kg	32
Collector capacity	l	1.4
Max. operating pressure	bar	10
Idle temperature	°C	199
Recommended throughput	l/m ² h	15 - 40
Collector field piping		max. 6 units in series
Min. collector incline	°	15
Max. collector incline	°	75
Connections		1" male/female screw connection
Absorber		Full surface aluminium absorber, highly selective vacuum coating
Hydraulic design		Harp
Absorption (α) / Emission (ε)		0.95 / 0.05
Collector housing		Deep-drawn, salt water resistant aluminium tray
Heat insulation		40 mm mineral wool
Collector glazing		3.2 mm toughened, low iron solar safety glass
Efficiency (Aperture) η _{0a}		0.779
Heat transfer coefficient a _{1a}	W/(m ² K)	3.914
Temperature depending heat transfer coefficient a _{2a}	W/(m ² K ²)	0.012
Angle correction factor K50°		0.94
Solar Keymark Reg.Nr.		011-7S1708 F

Connection systems SK400N-AL



Bench screw

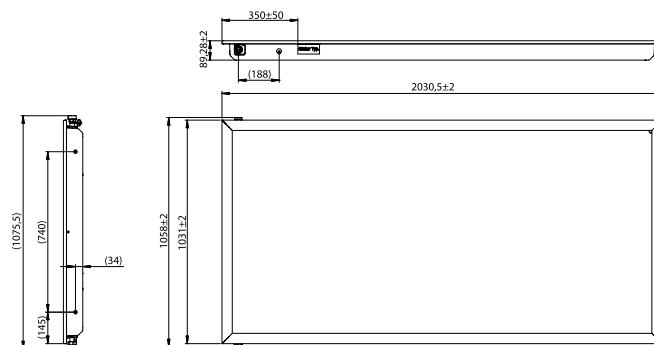


Roof bracket

Connection SK400N-AL

All hardware and sheet metal is prefabricated by SONNENKRAFT and the unit is delivered with a full set of accessories. You can install the collector yourself. Easy-to-understand instructions are provided.

Dimensions SK400N-AL



Features of SK400N-AL roof mounted collector

- Elegant 2.09 m² units, suitable for all types of assembly
- Highly-selective absorber coating heats water to high temperature in rapid time
- Hail-resistant solar glass
- Weather-resistant materials provide long service life
- Aluminium absorber with highly-selective coating
- Elegant, deep-drawn aluminium tray
- High-quality rear wall insulation using 40mm thick non-decaying mineral wool
- Easy-to-install detachable hydraulic screw connections