

SONNENKRAFT LARGE SIZE COLLECTOR GK5-HP, GK10-HP



EASY

The proven mounting system of SONNENKRAFT ensures a quick & easy mounting and adjustment of the collector.

EFFICIENT

Higher efficiency because of a new design welding the collecting pipe directly to the absorber and embedding it into the isolation.

EXTRA

Shapely styling, representing the new SONNENKRAFT-look.



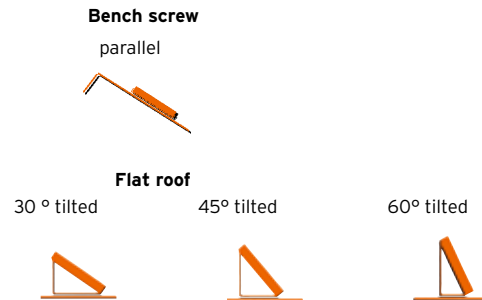
Large size collector GK5-HP, GK10-HP

The GK-AL collector is specially optimised for bigger installations. It can be installed quickly and easily combined to a large scale field. The efficiency could be substantially increased by welding the collecting pipe directly to the absorber.

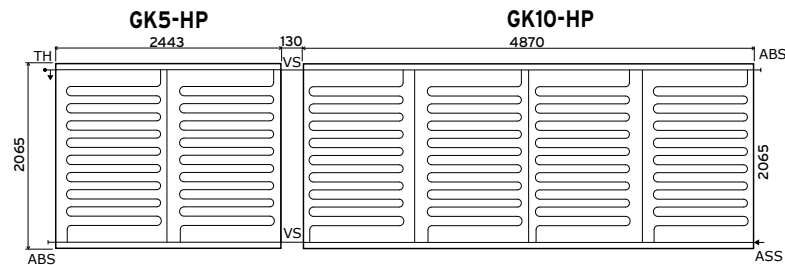
SPECIFICATIONS

Name		GK5-HP	GK10-HP
Collectortype		flat collector	
Mounting type		on-roof	
Gross area	m ²	5,04	10,06
Aperture area	m ²	4,64	9,28
Absorber area	m ²	4,63	9,26
Length	mm	2065	
Width /Width incl. connection	mm	2443 / 2468	4870 / 4896
Height	mm	113	
Weight empty	kg	87	168
Collector capacity	l	3,4	6,9
Max. operating pressure	bar	10	
Idle temperature	° C	199	
Recommended throughput	l/m ² h	10 - 25	
Collector field piping		max. 70m ² parallel	
Min. collector incline	°	25	
Max. collector incline	°	75	
Connections		1 1/4" male screw connection	
Absorber		Full surface aluminium absorber, highly selective vacuum coating	
Hydraulic design		Meander	
Absorption (α) / Emission (ε)		0.95 / 0.05	
Collector housing		Aluminium frame	
Heat insulation		50 mm mineral wool	
Collector glazing		3.2 mm toughned low iron solar glass	
Number of glass plates		2	4
Efficiency (Aperture/Absorber) η_{0a} / η_{0A}		0,809	
Heat transfer coefficient a_{1a} / a_{1A}	W / (m ² K)	2,858	
Temperature depending heat transfer coefficient a_{2a} / a_{2A}	W / (m ² K ²)	0,015	
Angle correction factor $K_u(50^\circ)$		0,95	
Solar Keymark Reg.Nr.		011-751878 F	
Collector efficiency acc. to ErP Lot1 dT 40K@1000W/m ²	%	67	

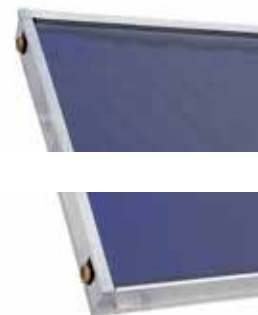
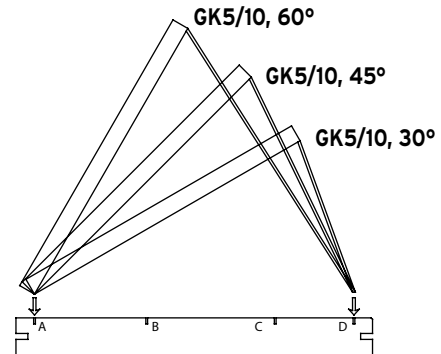
Fastening system GK-HP



Dimensions



Concrete fasteningpoints GK-HP, 30°, 45° and 60°



Contact your SONNENKRAFT sales representative today.
The sun will rise again tomorrow.

