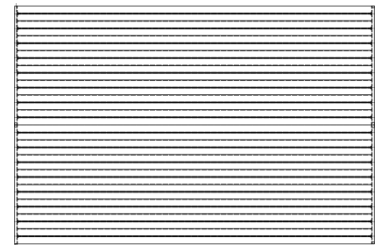


# gigaSol



Absorber



Register number 011-7S2214 F

Assembly:	
Application:	On-roof / free-standing / in-roof
Glass (transparent cover):	Hardened, hail proof, structured solar glass, 3,2 mm, with little iron content, with low reflection, interchangeable glass cover
Absorber:	Ultrasonically welded full-copper stripe absorber with intelligent hydraulics, high-selectivity coating Absorption 95 % +/- 2 %, Emission 4-5 %
Frame:	Strong, attractive double-walled powder coated aluminium frame, no visible screws, welded; with special ventilation system and strengthened middle strip
Rear wall:	Made of aluminium
Rear wall insulation:	50 mm of degassing-free mineral wool
Side insulation:	20 mm of degassing-free mineral wool
Glass sealing:	Durable EPDM triple seal, with integrated webbing thread
Cover system:	With ALU-clip profile - ensures a reliable seal and a great appearance (optic), smoothly to open and resealable
Flashing:	Colour anthracite grey (RAL 7016), available as an accessory, suitable for inclinations of > 23°

Technical data:				
Type	gigaSol 49	gigaSol 72	gigaSol 96	gigaSol 120
Gross area (m <sup>2</sup> )	4,83	7,22	9,61	12,00
Aperture area (m <sup>2</sup> )	4,40	6,61	8,83	11,05
Absorber area (m <sup>2</sup> )	4,15	6,36	8,58	10,80
Height (mm)	2080			
Width (mm)	2320	3470	4620	5770
Depth (mm)	105			
Weight without heat carrier (kg)	75	115	155	195
Total volume of the collector (lt.)	3,7	4,8	5,9	7,1
Max. inclination (°)	75 *)			
Min. inclination (°)	15 **)			
Max. operating pressure (bar)	10			
Dimension of manifold (mm)	22 mm			

\*) On-roof installation: On request also for 90° assembling (e.g. frontage) available!

\*\*) In-roof installation: Min. inclination when using standard flashing: 23°

# gigaSol

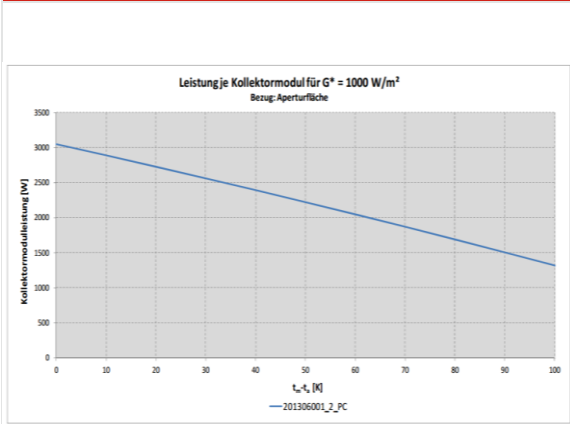
## Efficiency values according to EN 12975-2 (Test number ASiC / P-201306001)

Test collector	<b>gigaSol OR 4</b>
Data reference	<b>absorber area</b>
Conversion factor $\eta_0$	0,785
Thermal transmittance coefficient simple $a_1$	4,057 W/m <sup>2</sup> K
Thermal transmittance coefficient square $a_2$	0,004 W/m <sup>2</sup> K <sup>2</sup>

## Power output in Watt (according to EN 12975-2)

	400 W/m <sup>2</sup>	700 W/m <sup>2</sup>	1000 W/m <sup>2</sup>
<sup>1)</sup> $\vartheta_k - \vartheta_a = 10$ K	1061	1976	2891
<sup>1)</sup> $\vartheta_k - \vartheta_a = 30$ K	734	1649	2564
<sup>1)</sup> $\vartheta_k - \vartheta_a = 50$ K	394	1309	2224

## Power characteristic ( $G^*$ Norm = 1000 W / m<sup>2</sup>)



## Power output in Watt (at $G = 1000$ W / m<sup>2</sup>)

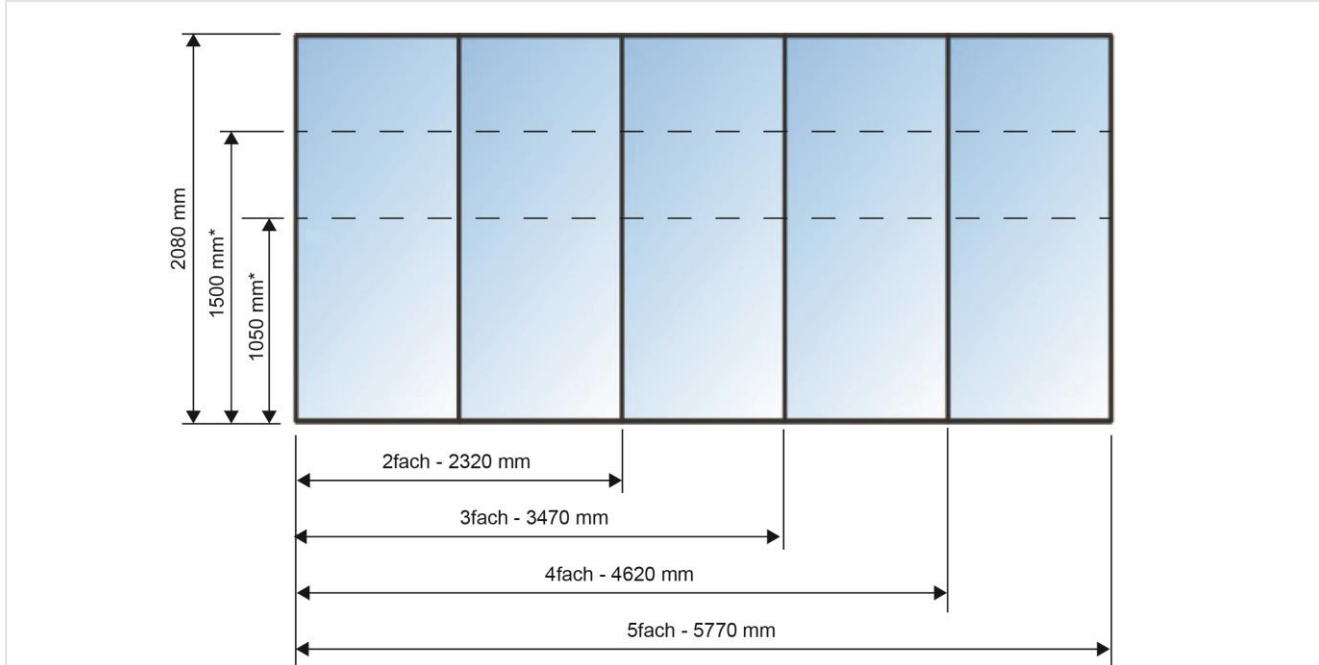
Temperature gap	0 K	10 K	30 K	50 K	70 K
<b>gigaSol 49</b>	3050	2891	2564	2224	1872
<b>gigaSol 72</b>	4584	4345	3854	3343	2814
<b>gigaSol 96</b>	6118	5799	5143	4461	3755
<b>gigaSol 120</b>	7652	7235	6433	5580	4697

Item No.	Type	Height (mm)	Width (mm)	Depth (mm)	Gross area (m <sup>2</sup> )
<b>K066-2</b>	<b>gigaSol 49</b>	2080	2320	105	4,83
<b>K066-3</b>	<b>gigaSol 72</b>		3470		7,22
<b>K066-4</b>	<b>gigaSol 96</b>		4620		9,61
<b>K066-5</b>	<b>gigaSol 120</b>		5770		12,00

**NOTE: In case of combination of a couple of gigaSol please declare at the time of order the desired arrangement of the panels!**

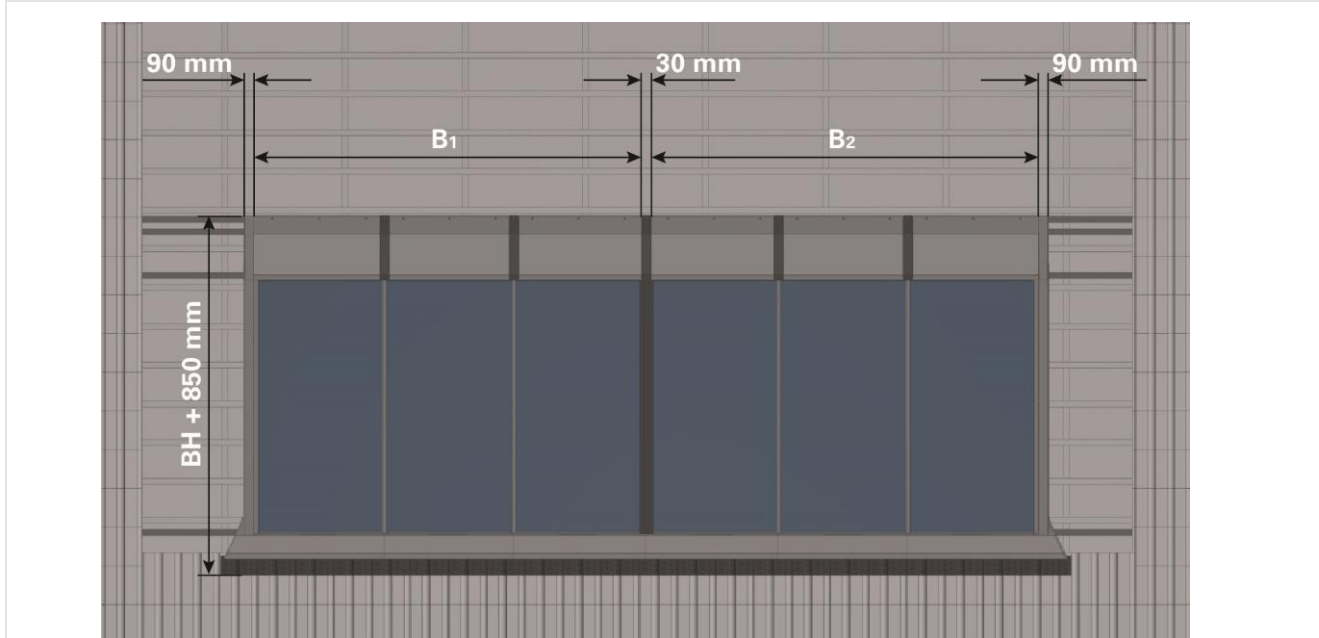
# gigaSol

## Measurements gigaSol without flashing



\* further heights available

## Measurements gigaSol incl. flashing



BH ... construction height  
B ... collector width