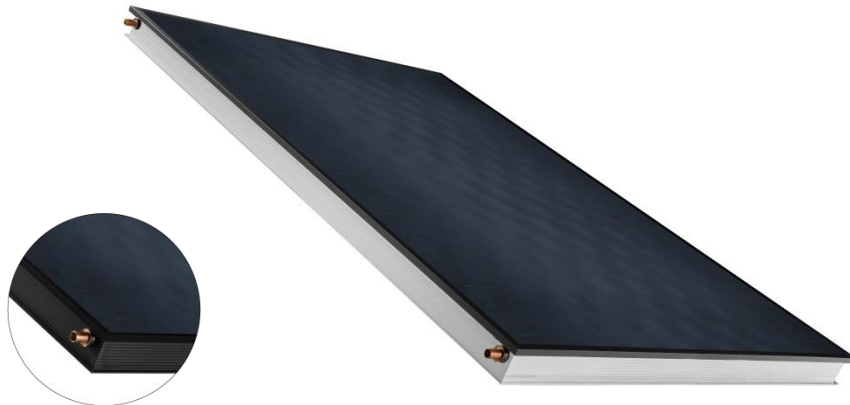
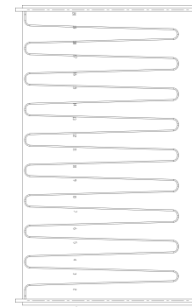


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Frame optional
black anodized

Absorber



Register number 011-7S2500 F



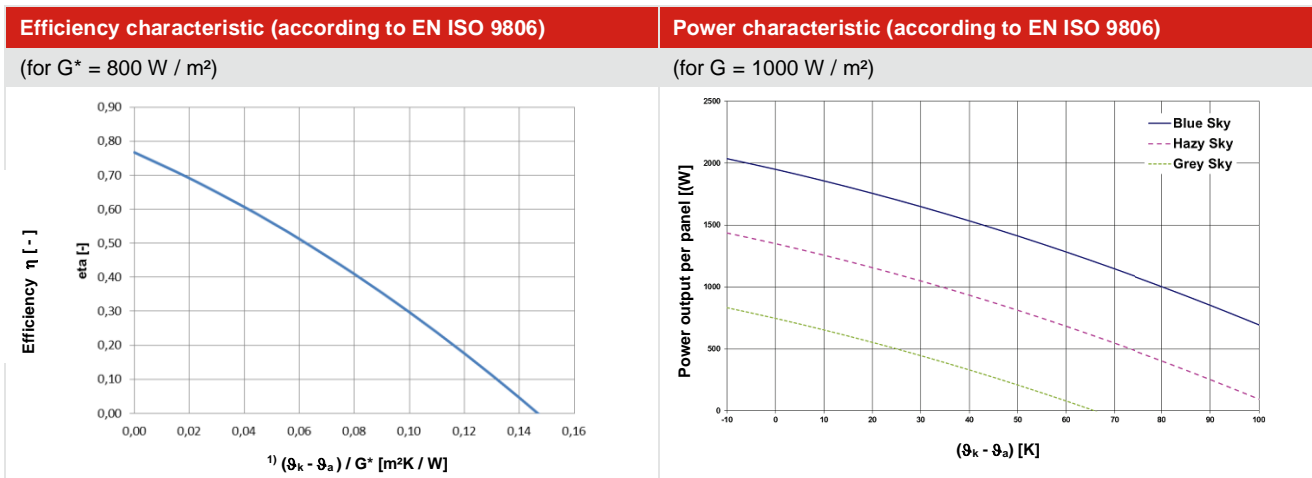
Assembly:	
Glass:	Hardened, hail proof, structured solar glass, 3.2 mm, transmissivity: 91 %
Frame:	Aluminium frame, welded, top surface „natural“, (opt. black anodized), cover strip black anodized
Absorber:	Aluminium full-plate absorber (meander geometry) with highly selective coating; laser welded; absorption: 95 %, emission: 5 %, with external sensor
Rear wall insulation:	50 mm of degassing-free mineral wool
Glass sealing:	2-component silicone
Rear wall:	Made of aluminium, sea water resistant, 0.4 mm
Connections:	Compression fitting 22 mm, 4 connections on side, heat transfer fluid can flow in both directions (L -> R or R -> L), approved for drain-back systems

Technical data:			
Dimensions (HxWxD):	2150 x 1255 x 98 mm	Total volume of the collector:	1,77 lt.
Gross area:	2,70 m ²	Max. inclination:	90°
Aperture area:	2,52 m ²	Min. inclination:	20°
Absorber area:	2,50 m ²	Max. operating pressure:	10 bar
Weight without heat carrier:	45 kg	Testing pressure:	15 bar
Assembling:	Vertical, on-roof, freestanding, in-roof		

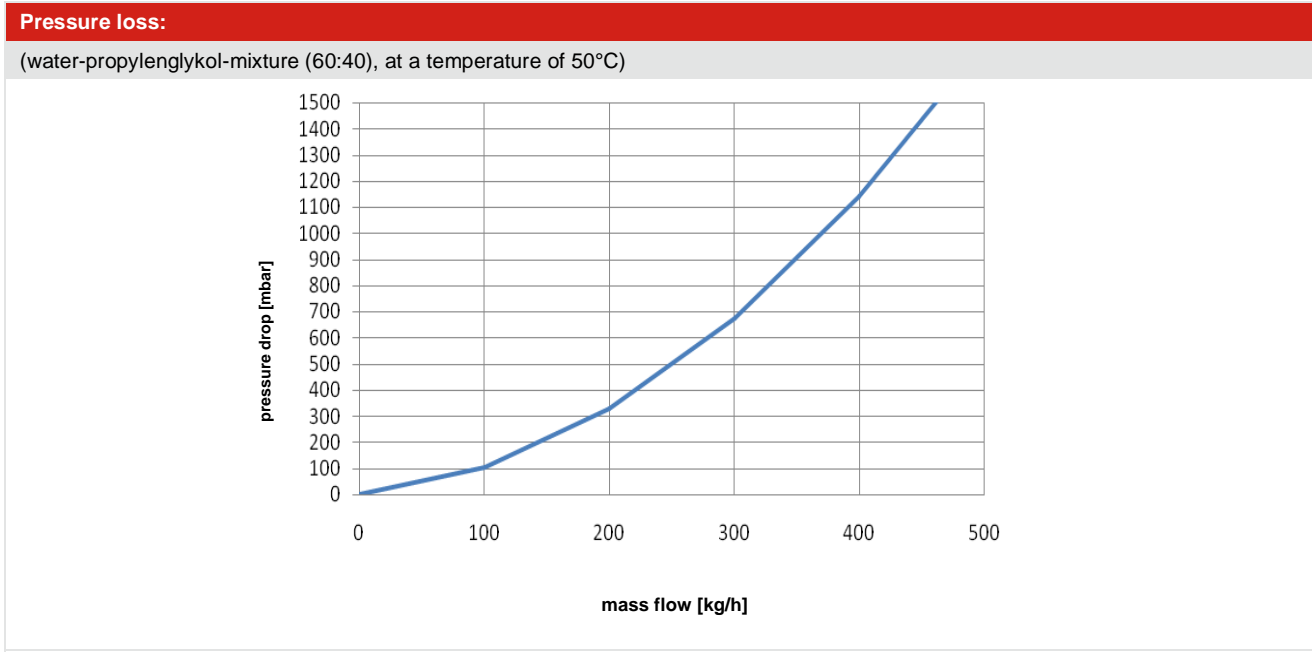
Efficiency values (according to EN ISO 9806):	
Reference	Aperture Area
Test number:	TÜV Rheinland, 21250086.002
Conversion factor η_0 :	0,767
Thermal transmittance coefficient simple a_1 :	3,561 W/m ² K
Thermal transmittance coefficient square a_2 :	0,0142 W/m ² K ²
Angle factor:	0,93
Efficiency $\eta_{0,05}$:	0,609

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Power output in Watt (according to EN ISO 9806)			
	Irradiance W / m ²		
	400 W/m ²	700 W/m ²	1000 W/m ²
¹⁾ $\vartheta_k - \vartheta_a = 10$ K	655	1258	1858
¹⁾ $\vartheta_k - \vartheta_a = 30$ K	447	1050	1650
¹⁾ $\vartheta_k - \vartheta_a = 50$ K	210	813	1413



¹⁾ $\vartheta_k - \vartheta_a$... Temperature difference between the mean panel temperature and the outside temperature

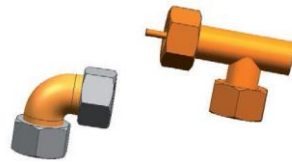


recommended mass flow: 50 kg/h up to 140 kg/h per collector

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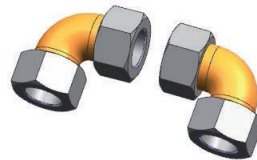
Connecting kit: Sensor

Set of connections with clamping ring (elbow) and sensor pocket;
also with pre-insulated stainless-steel flexible tubes; dimension 22 mm



• *Help: One kit is necessary for positioning the sensor !*

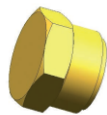
Connecting kit: with elbow



• *Help: For further collector fields without a sensor !*

Accessories:

Locking piece with clamping ring 22 mm
2 pc. per collector field



Flexible connection, straight 65 mm
2 pc. between collectors



Hydraulic connection:

Install the sensor (*) on the furthest to the right/left collector (using the connecting kit).

Attention! If the sun is shining during the installation of the collectors the connection units can get very hot!

Attention! Make arrangements against accidents before working on the roof! Note the rules for accident prevention!

Fig. 1

in parallel -> forerun right hand side

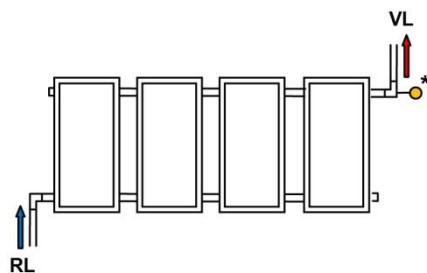
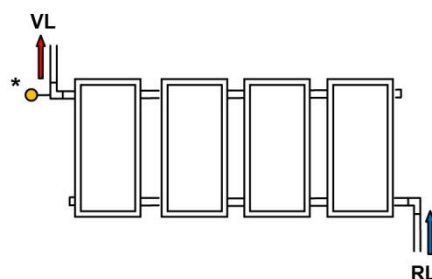


Fig. 2

in parallel -> forerun left hand side

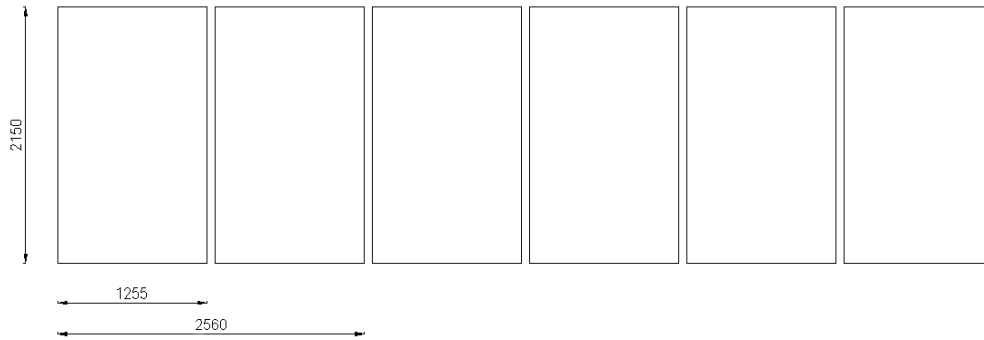


VL = forerun RL = return

• **Note:** You can connect up to 12 collectors in a row (in parallel). Furthermore the collectors should be separated and connected according to Tichelmann principle.

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Measurements type vertical:



Number of collectors	Width	Collector height
2 units	2580 mm	2150 mm
3 units	3905 mm	
4 units	5230 mm	
5 units	6555 mm	
6 units	7880 mm	
7 units	9205 mm	
8 units	10530 mm	
9 units	11855 mm	
10 units	13180 mm	
11 units	14505 mm	
12 units	15830 mm	