







Register number 011-7S2500 F





Assembly:	
Glass:	Hardened, hail proof (HW 3), 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

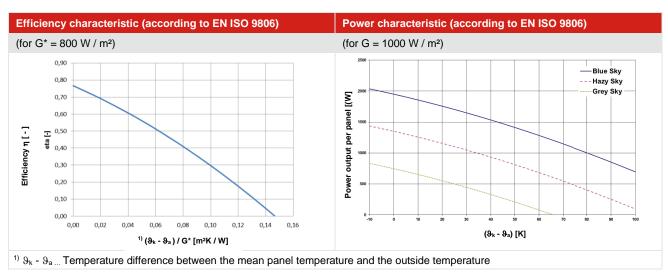
Technical data:						
Dimensions (HxWxD):	1255 x 2150 x 98 mm	Total volume of the collector:	2,42 lt.			
Gross area:	2,70 m²	Max. inclination:	90°			
Aperture area:	2,52 m²	Min. inclination:	15°			
Absorber area:	2,50 m²	Max. operating pressure:	10 bar			
Weight without heat carrier:	45 kg	Testing pressure:	15 bar			
Assembling:	Horizontal, on-roof, freestanding, in-roof					

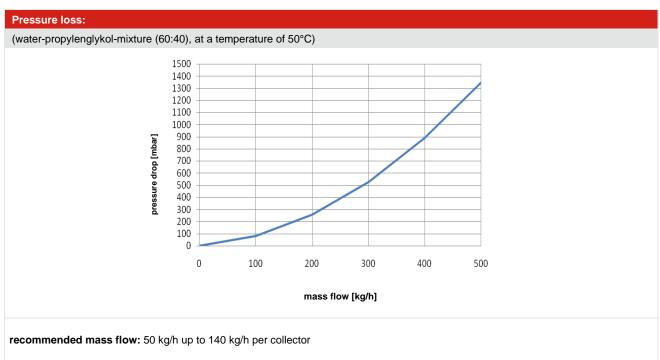
Efficiency values (according to EN ISO 9806):					
Reference	Aperture area				
Test number:	TÜV Rheinland, 21250086.002				
Conversion factor η_0 :	0,767				
Thermal transmittance coefficient simple a ₁ :	3,561 W/m²K				
Thermal transmittance coefficient square a ₂ :	0,0142 W/m²K²				
Angle factor:	0,93				
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/m²				
¹⁾ $\vartheta_k - \vartheta_a = 10 \text{ K}$	655	1258	1858				
¹⁾ $\vartheta_k - \vartheta_a = 30 \text{ K}$	447	1050	1650				
¹⁾ $\vartheta_k - \vartheta_a = 50 \text{ K}$	210	813	1413				





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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



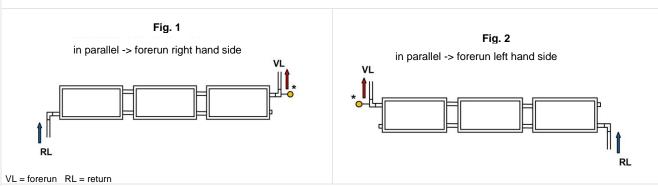
· Help: For further collector fields without a sensor!

Accesories: 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).

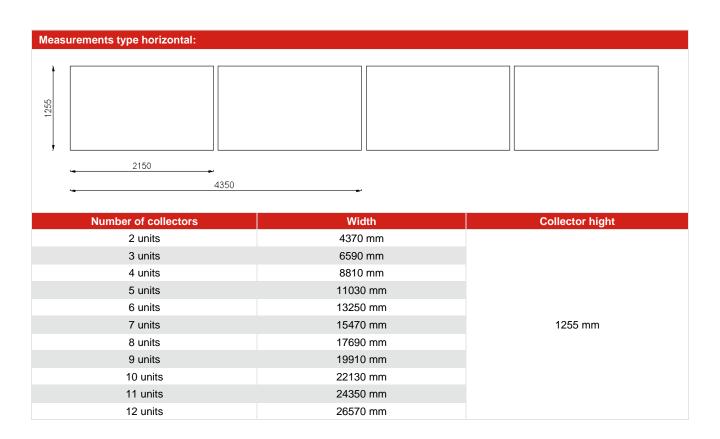
Attention! If the sun is shining during the installation of the collectors the connection units can get very hot! **Attention!** Make arrangements against accidents before working on the roof! Note the rules for accident prevention!



• 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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