



Register number 011-7S2567 F



Assembly:	
Glass:	Hardened, hail proof (HW 3) , structured solar glass, 3,2 mm, with high radiation permeability, transmissivity 91%
Frame:	Environmentally friendly wooden frame
Absorber:	Aluminium full-plate absorber (double harp geometry) with highly selective coating; laser welded; absorption: 95 %, emission: 5 $\%$
Rear wall insulation:	50 mm degassing-free mineral wool
Glass sealing:	High quality EPDM rubber seals with 4 sealing levels
Rear wall:	6,0 mm of water resistant hardboard (HDF)
Cover system:	Covering system with profiles of aluminium without visible screws guarantees secure sealing and perfect design, easily opened and closed
Flashing:	Of aluminium, suitable for inclinations of > 23°, pre-assembled, incl. screws and sealing, packed in cardboard, colour: charcoal grey

Technical specifications:						
Dimensions:	2098 x 1050 x 122 mm	Max. inclination:	75°			
Gross area:	2,20 m²	Min. inclination:	15°			
Aperture area:	2,02 m ²	Max. use pressure:	10 bar			
Absorber area:	2,01 m²	Test pressure:	15 bar			
Weight without heat carriers:	44,9 kg	Recommended mass flow	15-60 lt./m²/h			
Total panel volume:	1,8 lt.					

Characteristic efficiency values (acc. to EN ISO 9806:2013):				
Reference:	Aperture area			
Test number:	AIT 2.04.01243.1.0-2-LT			
Conversion factor η_0 :	0,740			
Thermal transmittance coefficient simple a ₁ :	3,306 W/m²K			
Thermal transmittance coefficient square a ₂ :	0,011 W/m²K²			
Angle factor:	0,92			
Efficiency η _{0,05} :	0,553			



Power output (acc. to EN ISO 9806:2013)						
Irradiance W / m ²						
	400 W/m ²	700 W/m ²	1000 W/m ²			
¹⁾ $\vartheta_k - \vartheta_a = 10 \text{ K}$	517	964	1426			
¹⁾ $\vartheta_{k} - \vartheta_{a} = 30 \text{ K}$	366	813	1275			
$^{1)} \vartheta_{k} - \vartheta_{a} = 50 \text{ K}$	198	645	1107			



¹⁾ $\vartheta_k - \vartheta_{a,..}$ difference between average collector temperature and the ambient temperature; G ... global irradiance





Connecting unit: (Set)

Mutual rugged fitting of red brass with double seal face (DKOL); Viton seal ring, also available with pre-insulated flexible tube of stainless steel, dimensions: 22 mm mutual junction for soldering



• Help: For further collector fields without a sensor !

Hydraulic connection:

Attention! If the sun is shining during the installation of the collectors the connection units can get very hot!Attention! Make measures against accidents before working on the roof! Note the rules for accident prevention!Attention! According to the hydraulic connection of the absorber the collector field has to be floated from the left to the right side!Otherwise the collector can't be ventilated completely. The consequence is a loss of efficiency!



VL = forerun RL = return

• Note: You can connect up to 5 units of collectors in a row! For more than 5 units the collectors should be separated and connected according to Tichelmann principle (see Fig. 1 and Fig. 2).



