

# TWIN COLLECTOR

for TWIN energy roof

TWK



#### Advantages TWIN collector:

1. Thermal collectors and PV modules with exactly the same dimensions
2. Perfect design thanks to homogenous mounting system
3. Serial connection up to 10 TWIN collectors possible

Combine efficient technology with perfect design. Add a homogenous mounting system for thermal collectors and photo-voltaic modules to get our new and innovative energy roof. Now you get even more power and a better design. The perfect combination for storing the energy: our new HYDRO freshwater storage tank.



# TWK Energy roof TWIN COLLECTOR



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## TECHNICAL DATA

	TWK
Gross surface area [m <sup>2</sup> ]	1,67
Absorber surface area [m <sup>2</sup> ]	1,49
Opening surface area [m <sup>2</sup> ]	1,57
Efficiency $\eta_{col}$ [%]	58
Opt. efficiency $\eta_0$	0,768
a1 [W / (m <sup>2</sup> x K)]	4,385
a2 [W / (m <sup>2</sup> x K)]	0,010
IAM	0,93
Snow load [kg]	960
max. output [kWp, therm.]	1.202
L x W x H [mm]	1674 x 998 x 58
Weight empty [kg]	23,9
Volume [l]	1,08
Collector body	Al - frame
Surface	Al - black
Back sheet	Al - sheet
Absorber	harp
	Al-coated highly selective
Absorption [%]	95
Emission [%]	5
$\varnothing$ manifold [mm]	CU18
$\varnothing$ register pipe [mm]	CU8
Connections	4 x push fit ¼"
Glass cover	3,2 mm hardened safety glass float
Transmission [%]	90,5
Insulation	25 mm mineral wool
Max. stagnation temperature	164 °C
Max. operating pressure	10 bar
Proper heat transfer medium	Propylen glycol - water mixture
Approved installation angle	min. 15 °, max. 75°
Keymark	011-7S2585 F

## Advantages:

### Design:

- Thermal collectors and PV modules with exactly the same dimensions
- Homogenous mounting system
- Black frame
- Black clamps

### Technics:

- Serial connection of up to 10 collectors
- Black frame and homogenous mounting system
- Better performance, higher efficiency

### 2 in 1:

- Heat + Power = perfect design & high efficiency



Black mounting clamps

## Samples TWIN energy roof



Heat: 16,7 m<sup>2</sup>  
8,70 kW

Power: 16,7 m<sup>2</sup>  
2,80 kW



Heat: 10,02 m<sup>2</sup>  
5,23 kW

Power: 20,04 m<sup>2</sup>  
3,36 kW



Heat: 6,68 m<sup>2</sup>  
3,49 kW

Power: 13,36 m<sup>2</sup>  
2,24 kW