

**MESys Solar**

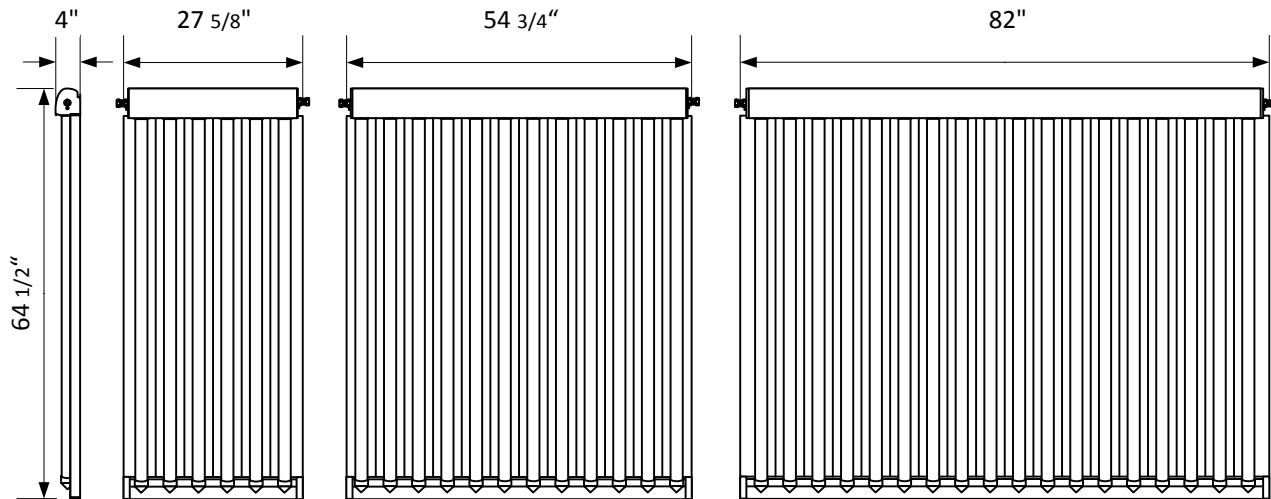
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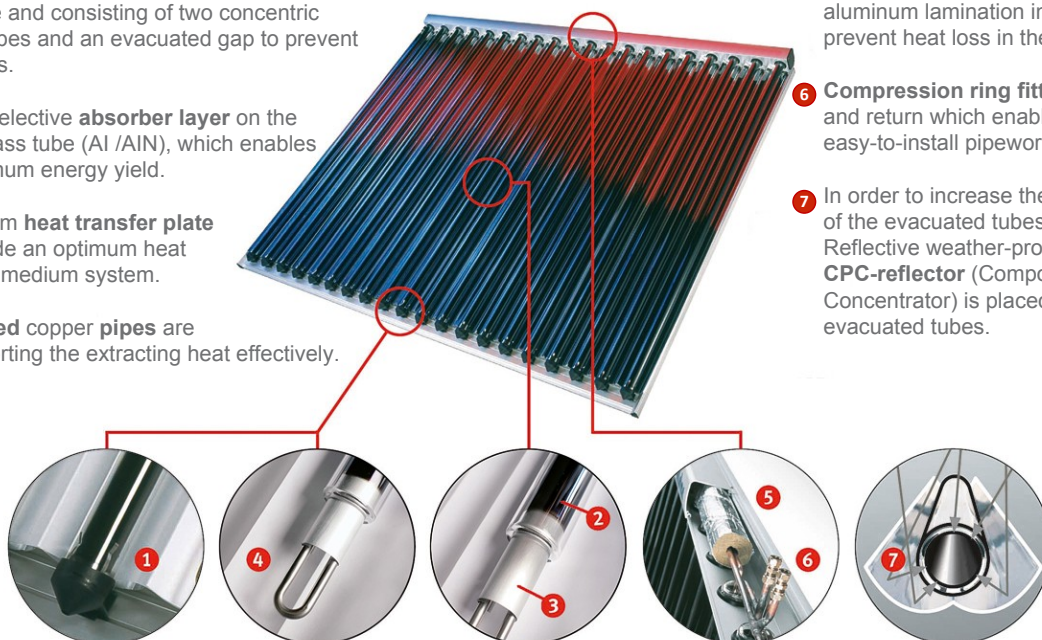


**Dimensions**



**Advantages**

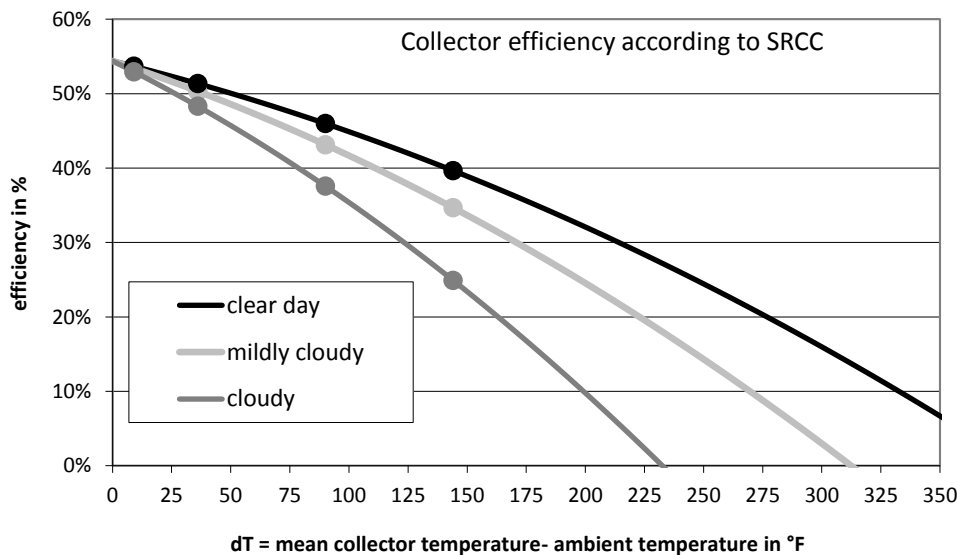
- 1 **Evacuated tubes** based on the thermos flask principle and consisting of two concentric glass tubes and an evacuated gap to prevent heat loss.
- 2 Highly selective **absorber layer** on the inner glass tube (Al /AIN), which enables an optimum energy yield.
- 3 Aluminum **heat transfer plate** to provide an optimum heat transfer medium system.
- 4 **U-shaped copper pipes** are Transporting the extracting heat effectively.
- 5 **Mineral wool insulation** with an aluminum lamination in order to prevent heat loss in the manifold.
- 6 **Compression ring fittings** for flow and return which enable safe and easy-to-install pipework connections.
- 7 In order to increase the efficiency of the evacuated tubes, a highly Reflective weather-proof **CPC-reflector** (Compound Parabolic Concentrator) is placed behind the evacuated tubes.



Technical Data

Type		CPC 6 OEM	CPC 12 OEM	CPC 18 OEM
Number of tubes		6	12	18
$n_0$ based on gross area	%	64.2	64.2	64.2
$a_1$ based on gross area	Btu/hr.ft <sup>2</sup> .°F	0.28	0.28	0.28
$a_2$ based on gross area	Btu/hr.ft <sup>2</sup> .°F <sup>2</sup>	0.00032	0.00032	0.00032
Thermal Performance Rating (Category C; Clear Day)	kBtu/day (per panel)	12.1	24.0	35.8
Module dimensions (l x w x d)	in	64.5 x 27.5 x 4	64.5 x 54.75 x 4	64.5 x 82 x 4
Gross surface area	ft <sup>2</sup>	12.38	24.52	36.70
Aperture Area	ft <sup>2</sup>	10.76	21.68	32.29
Collector contents	gal	0.21	0.42	0.63
Weight	lbs	42	82	119
Max. working pressure	psi	150	150	150
Max. stagnation temperature	°F	522	522	522
Connection diameter	mm	15	15	15
Collector material//Glass material		Al / Cu / glass / silicone / PBT / EPDM / TE // borosilicate glass 3.3		
Selective absorber coating		aluminum nitride		
Glass tube (ext. / int. / thickness / length)	in	1 7/8 / 1 1/2 / 1/16 / 60		
Frame Color // Plastic parts Color		aluminum grey // black (RAL 9004)		
SRCC OG-100 certification no.		2008008E	2008008D	2008010F
Heat transfer fluid		Water, Glycol		
Ritter XL Solar Part no.		08-9735	08-9736	08-9737

Performance Data



SRCC Rating*	BTU per panel per day
CPC 6	12,100**
CPC 12	24,000**
CPC 18	35,800**

\* Clear day; Category C  
 \*\* Output per sq.ft. for all collector sizes:  
**975 BTU/ft<sup>2</sup> per day**