

Vacuum Tube Collectors

CPC 6 OEM, CPC 12 OEM, CPC 18 OEM

For water heating and backup heating, series connection

Pipe Material

Copper

Installation Types

On-roof installation
Flat roof / wall installation

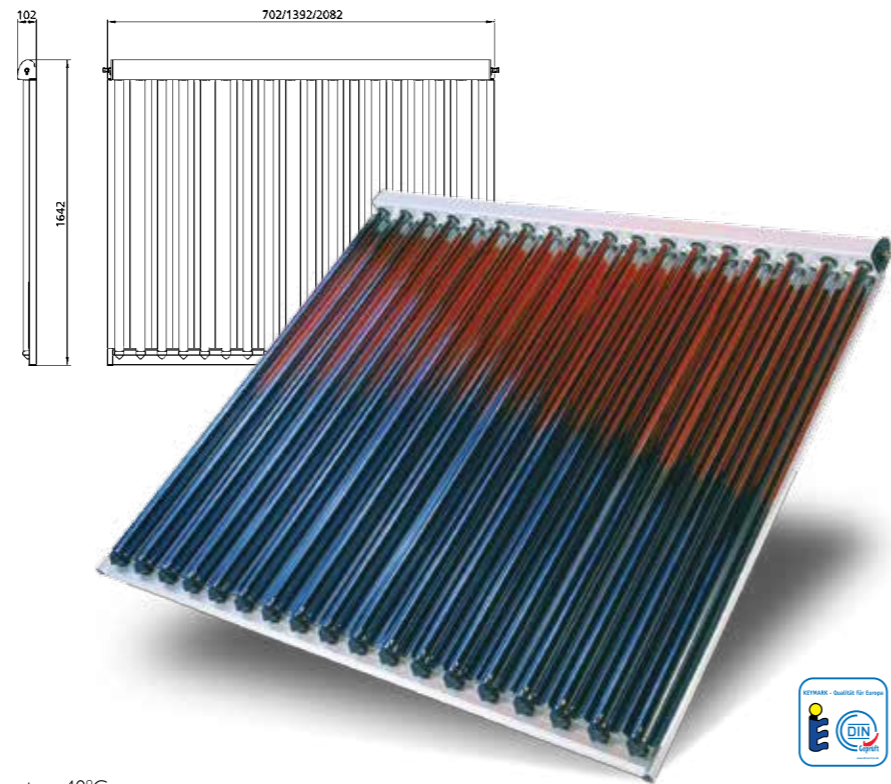
Scope of Delivery

Fully pre-assembled unit comprising of:

- evacuated tubes based on the thermos flask principle
- manifold with direct low heat conduction unit and dry tube connection
- CPC reflector Collectors are packed in individual boxes.
- A sun protection sheet over the evacuated tubes.

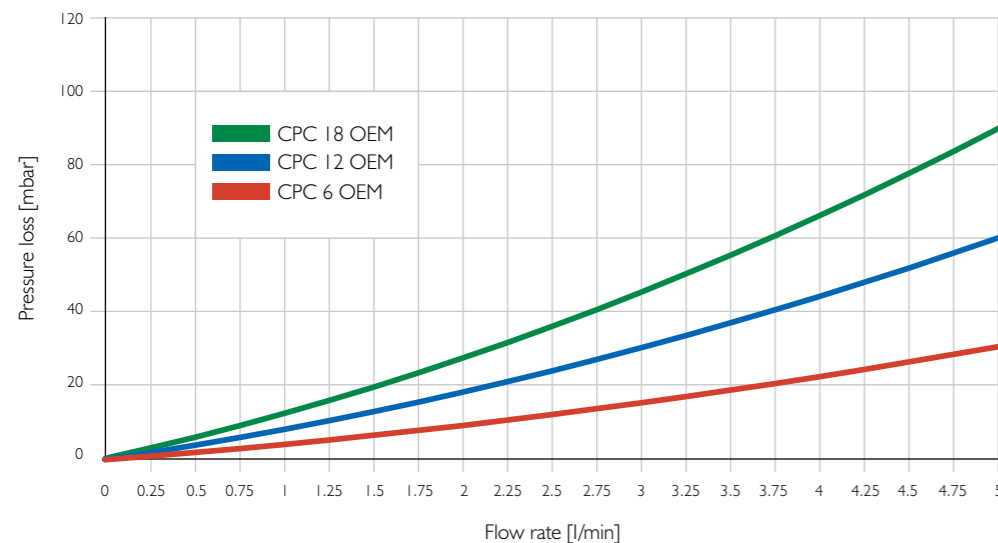
Notes

The manifold must always be mounted on top. The minimum angle for on-roof and flat roof installation is 15°.

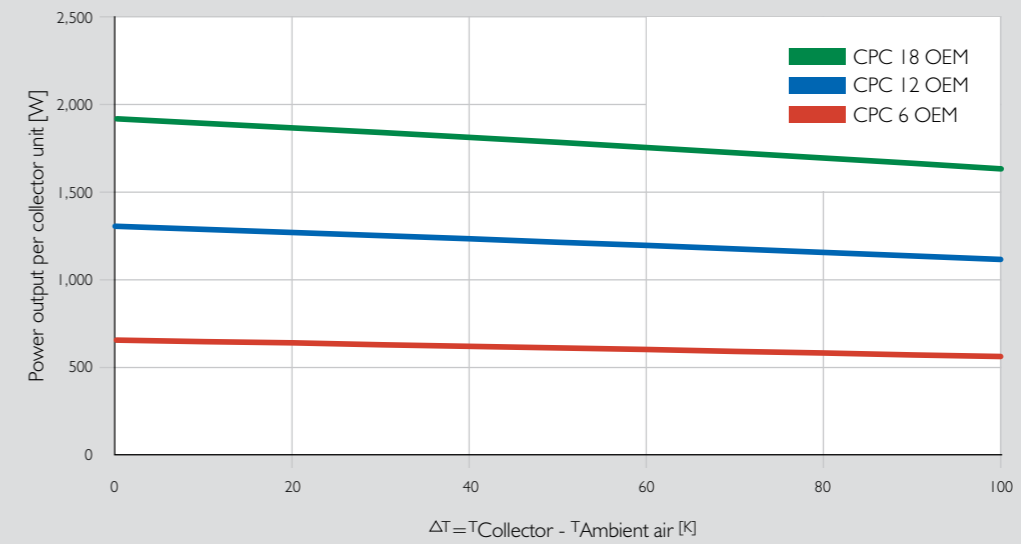


Pressure Loss

Heat transfer medium: Tyfocor LS, medium temperature 40°C



Power Curve



CPC OEM Vacuum Tube Collectors				
Series		CPC 6 OEM 0.8 kW	CPC 12 OEM 1.6 kW	CPC 18 OEM 2.39 kW
Number of evacuated tubes		6	12	18
η_0 in relation to aperture, EN 12975	%	64.2	64.2	64.2
a_1 with wind, in relation to aperture	W/(m ² k)	0.89	0.89	0.89
a_2 with wind, in relation to aperture	W/(m ² k ²)	0.001	0.001	0.001
Yield forecast (location Würzburg, Germany, reference area 3 m ²)	kWh/m ² a	651	651	651
Yield forecast (location Würzburg, Germany, reference area 5 m ²)	kWh/m ² a	589	589	589
Grid dimensions (length x height x depth)	m	0.70 x 1.64 x 0.1	1.39 x 1.64 x 0.1	2.08 x 1.64 x 0.1
Gross surface area	m ²	1.15	2.28	3.41
Aperture area	m ²	1.0	2.0	3.0
Collector contents	l	0.9	1.8	2.6
Weight	kg	19	35	52
Max. working overpressure	bar	10	10	10
Max. stagnation temperature	°C	272	272	272
Connection diameter, compression fitting	mm	15	15	15
Sensor sleeve	mm	6	6	6
Collector material		Al / Copper / glass / silicone / PBT / EPDM / TE		
Glass tube material		borosilicate glass 3.3		
Selective absorber coating material		aluminium nitrite		
Glass tube (Ø ext./Ø int./wall thckn./tube lgth.)		mm 47/37/1.6/1500		
Colour (aluminium frame profiles, powder-coated)		aluminium grey		
Colour (plastic parts)		black		
Thermal shock test / ITW test number		06COL513/3OEM08/1		
Hailstone test according to DIN EN 12975-2 / TÜV test number		435/142448		
EC type examination		Z-IS-DDK-MUC-07-08-100029919-001		

CPC OEM Warranty*

Vacuum tubes: 20 years **Manifold & mounting materials: 5 years**

*SOLFEX energy systems terms and conditions apply which are available upon request. Collectors and systems must be installed according to the planning, installation, maintenance and operating guide & registered on the SOLFEX energy systems website within 28 days of such installation being commissioned.