EVACUATED TUBE COLLECTORS CPC 1506/1512/1518

for domestic water heating and backup heating, series connection

Heat exchanger material: copper

Scope of delivery:

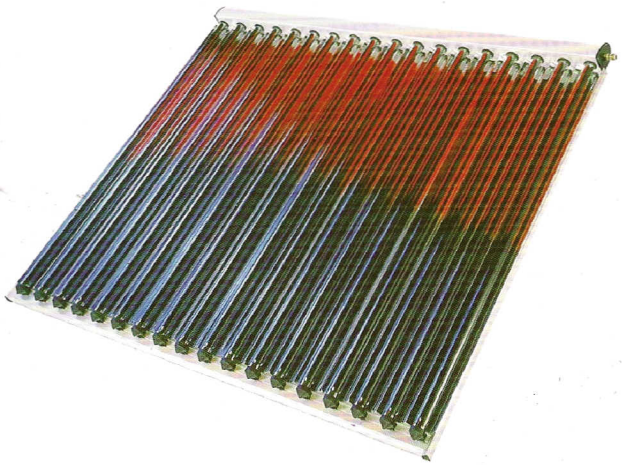
Fully pre-mounted unit consisting of:

- Evacuated tubes according to the thermos principle
- Manifold with direct flow heat conduction unit and dry tube connection
- CPC reflector
- Collectors are packed in individual boxes. Additional sun protection sheet over evacuated tubes.

Mounting types:

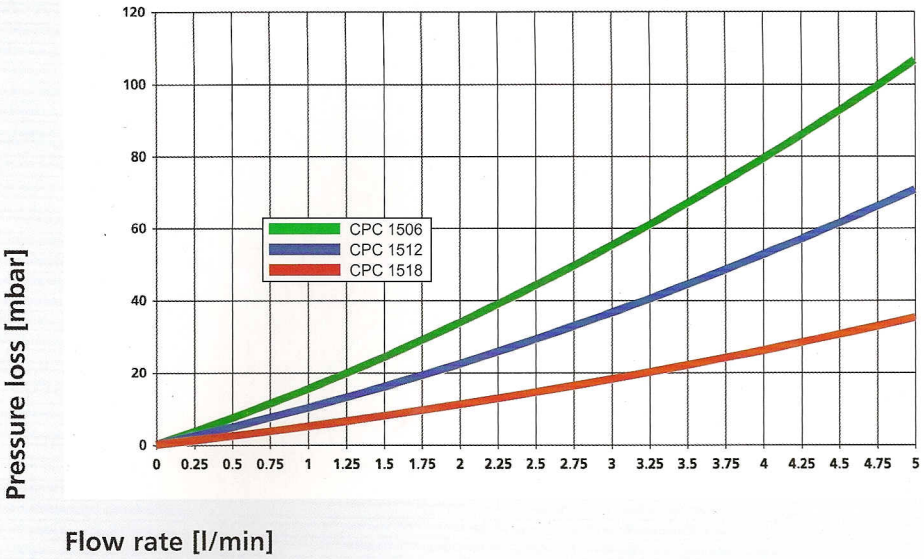
- Roof mounting
- Flat roof/wall mounting

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



Series		CPC 1506	CPC 1512	CPC 1518
Number of evacuated tubes		6	12	18
η_0 (Aperture), DIN 4757-4 or EN 12975	%	64.2	64.2	64.2
c_1 with wind, in relation to aperture	W/(m²k)	0,.89	0.89	0.89
c_2 with wind, in relation to aperture	W/(m²k²)	0.001	0.001	0.001
Yield forecast (location Würzburg, Germany, reference area 3 m²)	kWh/m²a	651	651	651
Yield forecast (location Würzburg, Germany, reference area 5 m²)	kWh/m²a	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	m²	1.15	2.28	3.41
Aperture area	m²	1.0	2.0	3.0
Collector contents	l	0.8	1.6	2.4
Weight	kg	19	37	54
Max. working overpressure	bar	10	10	10
Max. stagnation temperature	°C	295	295	295
Connection diameter, clamping ring	mm	15	15	15
Sensor sleeve	mm	6	6	6
Collector material		Al / Cu / glass / silicon / PBT / EPDM / TE		
Glass tube material		borosilicate glass 3.3		
Selective absorber coating material		aluminium nitrite		
Glass tube (Ø ext./Ø int./wall thickness/tube len.)	mm	47/37/1.6/1500		
Colour (aluminium frame profile, anodised)		aluminium grey		
Colour (plastic parts)		black		
Thermal shock test	ITW test number	02COL282		
Hailstone test according to DIN EN 12975-2	TÜV test number	435/142448		
EC Type examination		Z-DDK-MUC-04-100029919-005		
DIN CERTCO - Register number		011-7S113R		

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



Power curve

(G = 1,000 W/m²)