

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

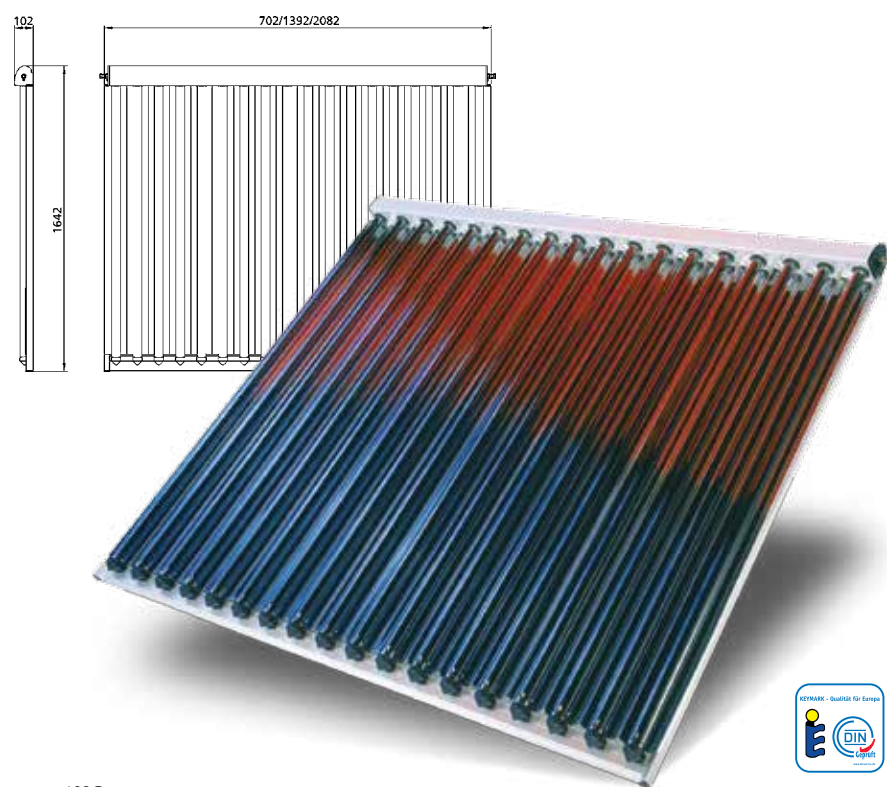
Scope of Delivery

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.

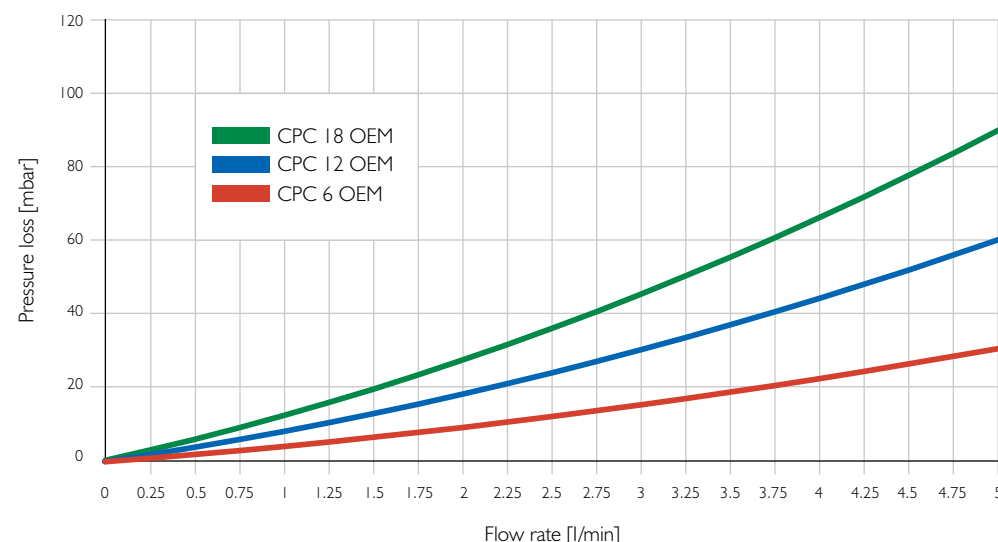
Notes

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

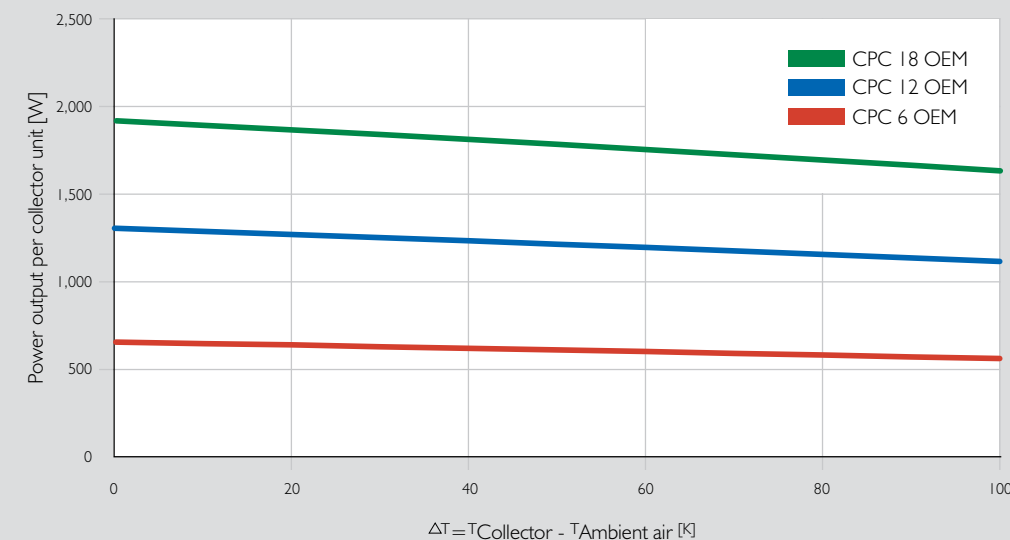


Pressure Loss

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/(m²k) | 0.89 | 0.89 | 0.89 |
| a_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 | 0.9 | 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**

*The Renewable Energy Hub's 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 Renewable Energy Hub's website within 28 days of such installation being commissioned.