

Vacuum Tube Collectors OEM 21

For water heating and backup heating, series connection

Pipe Material

Copper

Installation Types

On-roof installation
Flat roof / wall installation
Horizontal 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.

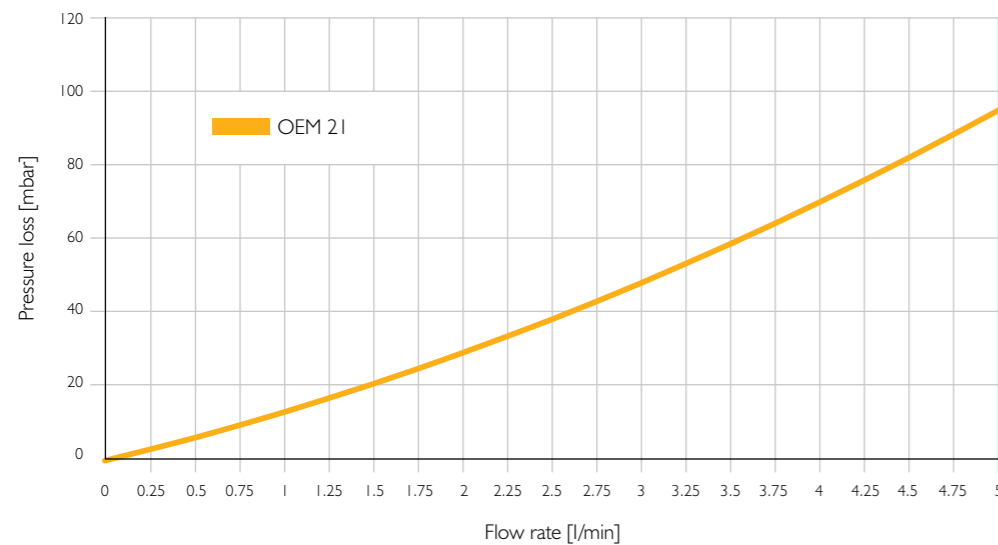
Notes

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

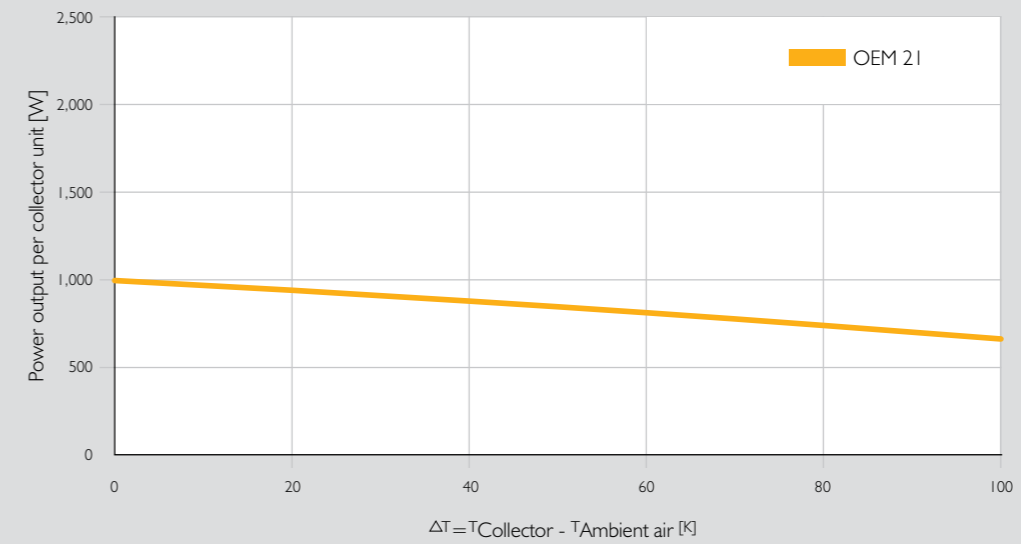


Pressure Loss

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



Power Curve



OEM 21 Vacuum Tube Collectors		
Series		CPC 21 OEM ? kW
Number of evacuated tubes		21
η_0 in relation to aperture, EN 12975	%	74.5
a_1 with wind, in relation to aperture	W/(m²k)	2.007
a_2 with wind, in relation to aperture	W/(m²k²)	0.005
Yield forecast (location Würzburg, Germany, reference area 3 m²)	kWh/m²a	780
Yield forecast (location Würzburg, Germany, reference area 5 m²)	kWh/m²a	619
Grid dimensions (length x height x depth)	m	1.45 x 1.64 x 0.1
Gross surface area	m²	2.32
Aperture area	m²	1.33
Collector contents	l	2.5
Weight	kg	51
Max. working overpressure	bar	10
Max. stagnation temperature	°C	220
Connection diameter, compression fitting	mm	15
Sensor sleeve	mm	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		06COL517
Hailstone test according to DIN EN 12975-2 / TÜV test number		435/142448
EC type examination		Z-IS-DDK-MUC-07-08- 100029919-003

OEM 21 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.