

PHÖNIX CPC 14/21

Vacuum tube collector according
to the thermos flask principle
Gross Area 2.58m² / 3.80m²



- Vacuum tube collector according to the thermos flask principle, therefore much less heat loss and higher solar gain
- Additional CPC mirror behind the tubes increases the energy gain, especially in transitional periods
- High operating reliability because of dry connection of the tubes and leak-tightness control (barium getter)
- cost saving and easy installation because of a pre-assembled collector on the mounting frame
- flexible choice of collector field connection, single- and double-sided connections possible
- long lifetime through high quality

Technical data

Collector dimension (HxWxD)	CPC 14: 1.61 x 1.60 x 0.14 m CPC 21: 1.61 x 2.36 x 0.14 m
Gross area	CPC 14: 2.58 m ² CPC 21: 3.80 m ²
Absorber coating	Aluminium-nitride
Absorbency	92 %
Optical efficiency	60 %
Weight	CPC 14: 50 kg CPC 21: 65 kg
Warranty	See general terms and conditions of sales of PHÖNIX SonnenWärme AG

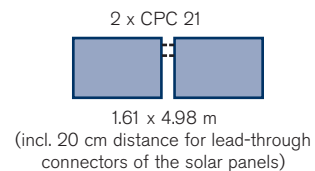
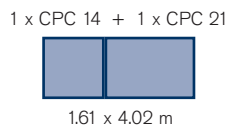
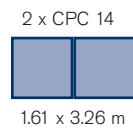
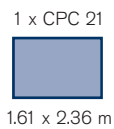
Type	CPC 14	CPC 21
Minimum collector slope	15°	
Effektive absorber area	2.2 m ²	3.3 m ²
Heat transfer medium capacity	1.68 litres	2.94 litres
Number of tubes	14	21
connection of tubes	dry	
Emissivity	6 %	
Efficiency factors	$k_1 = 0.767 \text{ W/m}^2\text{K}; k_2 = 0.0038 \text{ W/m}^2\text{K}^2$	
Max. stagnation temperature	244 °C	
Collector connections	12 mm copper	
Collector material	Heat medium tubes in copper, heat conduction sheets in aluminium	
Glass cover	borosilicate glass 3.3	
Max. allowable operation pressure	10 bar	
Test reports	Collector test report acc. to EN12975-1,2: 2006 by Fraunhofer ISE, Test report no. KTB 2006-43-en, Type approval no. 08-228-743	

Test:



Fraunhofer Institut
Solare Energiesysteme

Collector installation possibilities (Length x Height) :



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