




# Vacuum tube collector with CPC-reflector

Recommended for water, space and process heating and solar cooling temperature requirement  $\geq 90^{\circ}\text{C}$ .

The vacuum tube collector with CPC-reflector has high energy yield due to the special structure that contains vacuum tubes with highly selective absorber layer, U-shaped copper pipes inside vacuum tube for heat transport, aluminum heat transfer plate and highly reflecting CPC-reflector.



## Installation types

-  Pitched roof
-  Flat roof
-  On-wall



**360° reflecting  
15%+ energy efficiency**

In order to increase the efficiency of the vacuum tube collector, a highly reflecting and weather proof CPC-reflector (Compound Parabolic Concentrator) is placed behind the vacuum tubes. This special mirror geometry ensures that even at unfavorable irradiation angles direct and diffuse sunlight will fall onto the absorber. This CPC-reflector made in Germany can improve the heat-collecting efficiency by 15%.

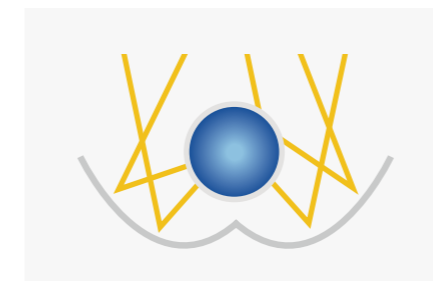
The CPC-reflector is produced from a metal sheet with protective coating using accurate roll forming technology and enamel mirror technology. The special coating on the mirror is a valid anti-corrosion processing for the reflector.

Due to unique fastening technology the CPC-reflector can be exchanged without using tools.

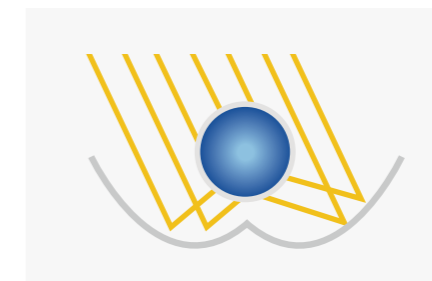


## Features

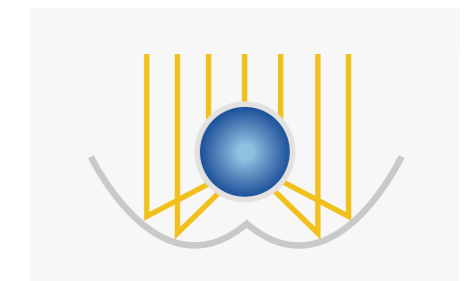
- + Short installation time due to complete pre-assembled collectors.
- + Manageable module size for a very high performance.
- + Flow and return pipes may be filled on the left or the right side of the manifold.
- + Low pressure loss allows several modules to be connected.
- + Minimum of soldering points prevent leakage.
- + Higher energy yield in cold seasons.
- + Extremely low heat loss due to the high vacuum.
- + Quick and tool-free exchange of the evacuated tubes.
- + Simple and reliable collector connection technology.



Diffuse radiation



Angled radiation



Direct radiation