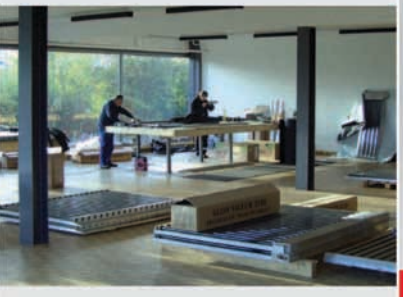
Texas Wind & Solar

Turn Light into Warmth

High performance CPC-Collectors GRAVITATION

TexasWindSolar.com
info@TexasWindSolar.com
(512) 800-8315



- Silver or black anodized frames available

25 year warranty

- Due to CPC-technology high performances even at unfavourable radiation inclination angle
- Vacuum flask principle guarantees longevity
- Compatible with and perfectly designed to support heating systems
- High output at cloudy skies
- TÜV and Solar KEYMARK approved

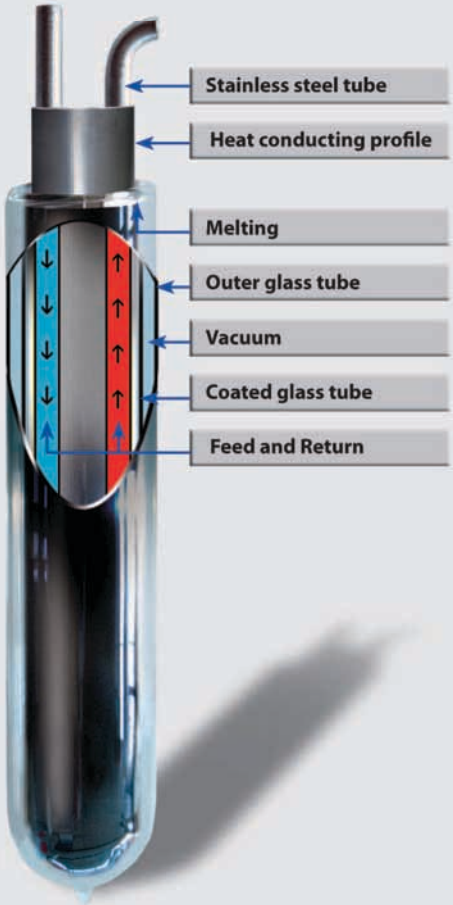


The heart of the high performing CPC-Collector GRAVITATION

The CPC vacuum tube consists of a double wall glass tube with an evacuated internal space. The used principle is similar to the one of a thermos or vacuum flask. At its ends the tube is melted to prevent from vacuum loss. A highly selective coating on the surface of the inner tube dissipates the generated heat of the solar radiation.

Thermal sheets transmit the generated heat to the stainless steel tubes which are filled with a heat transferring fluid. Due to the principle of the vaccum tubes, the systems is prevented from degradation to the environment. Furthermore, the dry connection of the vacuum tubes, the longevity and the easy replacement of the installed tubes distinguish the CPC-Collector GRAVITATION from other systems.

Dry connection of the vacuum tube (Sydney Tube)

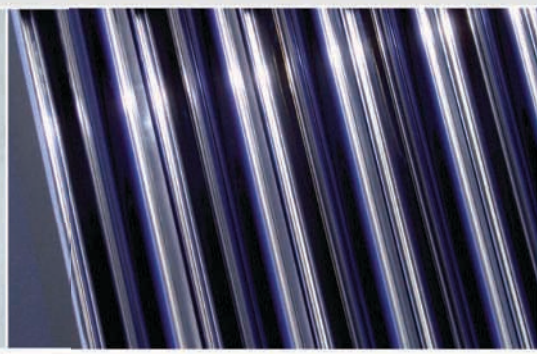


The CPC Mirror System

The highly reflecting and weather proof CPC mirror (**C**ompound **P**arabolic **C**oncentrator) installed behind the vacuum tube guarantees a maximum output of energy. The mirrors concentrate the solar radiation onto the vacuum tubes and the absorber. Thus, a small power plant is installed on top of the building. Especially during times of unfavourable conditions, i.e. winter or late fall, cloudy sky or early mornings, the CPC-Collector GRAVITATION demonstrates its high and efficient performance. The CPC-technology is considered to be more independent to unfavourable radiation inclination than other solar radiation systems. Furthermore, it is perfectly designed to support already existing heating systems.


Welded stainless steel register


Robust heat conducting profile


High quality workmanship

GRAVITATION No. of vacuum tubes	5	10	15	20
Heat output [kW]	0.50	1.01	1.51	2.02
Dimensions [mm]	595 x 1700 x 85	1090 x 1700 x 85	1645 x 1700 x 85	2180 x 1700 x 85
Gross collector area [m²]	0.96	1.89	2.83	3.78
Aperture area [m²]	0.79	1.55	2.36	3.10