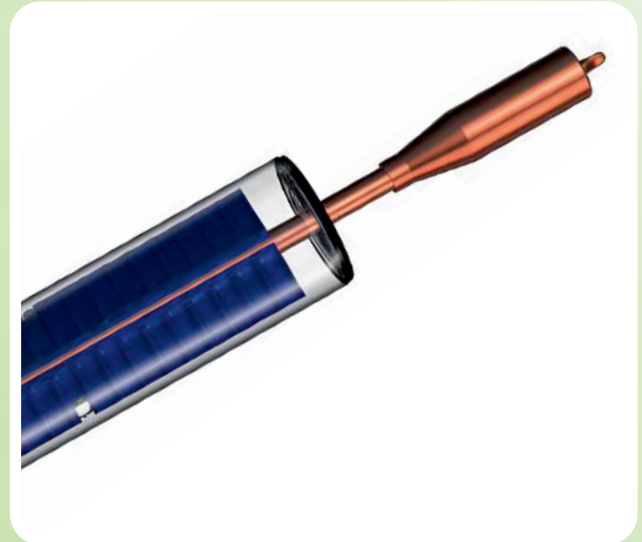
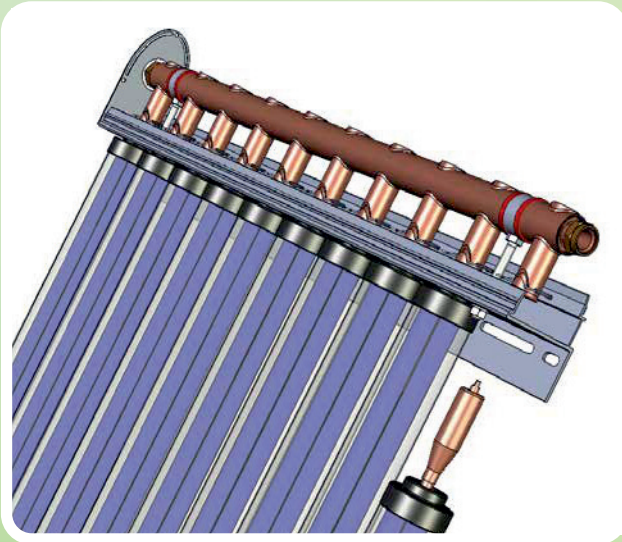




## Inherently Safe 100 ° C - Heat Pipe Full Vacuum Tube

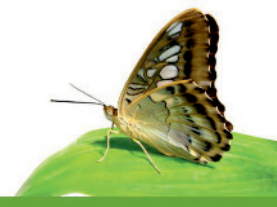


### Product Advantages:

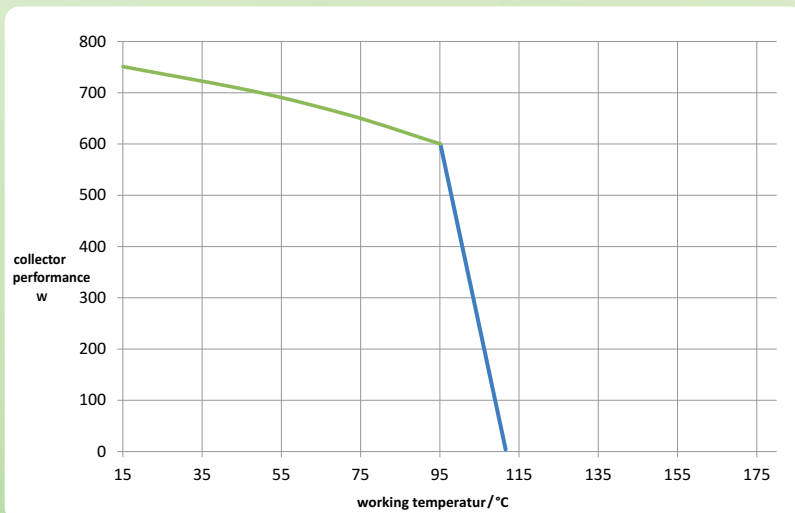
- inherently safe: no stagnation management necessary
- purely physical cut-off: no deterioration of building elements
- temperature limit avoids dangerous steam strokes (cavitation)
- cut-off temperature: 100°C
- expansion tank 60% less than at collector systems at high stagnation temperature
- line vessel is not necessary
  
- absorber and heat transfer tube are protected by vacuum
- patented glass-to-metal connection enables 20 years stable vacuum
- Power Tubes available (absorber coated both sides)
  
- high efficiency factor
- weather- resistant nano coating for high hail resistance (hail Impact test EN 12975-2 TÜV Rheinland)

### Area of Application

- heating support and domestic water heating
- process heat

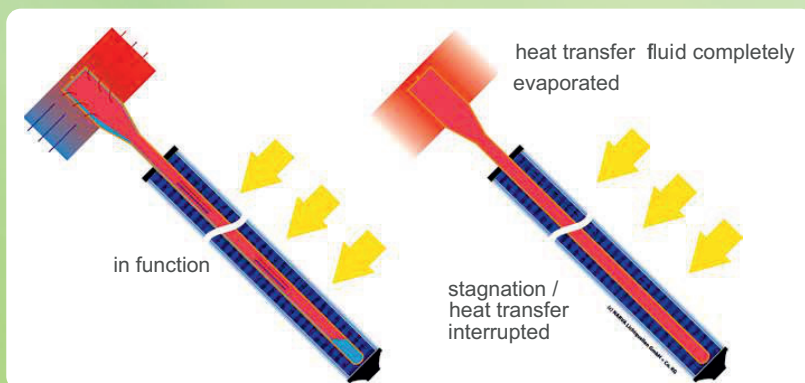


## Cut-off Curve



Performance tube collector at solar radiation of 1.000 W/m<sup>2</sup>  
(collector with 10 tubes)

## Cut-off on the principle of NARVA functioning



protected know-how:  
patent process 10 213 009 869.6

## Specifications

Nominal length (mm)	2.000
Tube length (mm)	2.010
Diameter glass tube (mm)	56
Aperture area glas tube (m <sup>2</sup> )	0,1010
Nominal capacity tube at radiation of 1.000 W/m <sup>2</sup>	76
Collected heat at 1000 kWh/a*m <sup>2</sup> temperature difference 40K (KWh/a)	68
Collected heat at 1000 kWh/a*m <sup>2</sup> temperature difference 100K (KWh/a)	57
Heat transition coefficient linear (W/m <sup>2</sup> *K)	1,12
Heat transition coefficient quadratic (W/m <sup>2</sup> *K <sup>2</sup> )	0,004
Efficiency factor	0,750