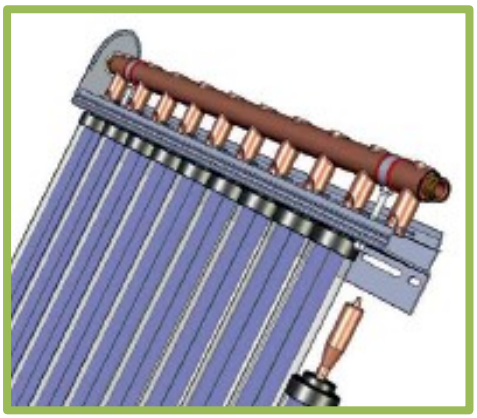
Data sheet 100 °C heat pipe full vacuum tube

The 100 °C heat pipe full vacuum tube from AKOTEC has a purely physical protection against overheating. This prevents any overheating of the solar system without special stagnation management. The temperature limitation also prevents dangerous steam hammer and the associated cavitation. All components are characterized by a very high quality, performance and service life. We give a **20-year manufacturer's guarantee** on our product!



Product· advantages

- Inherently safe due to integrated overheating protection
- Purely physical shutdown without wear of components
- Temperature limitation prevents dangerous steam hammer (cavitation)
- Expansion tank 60% smaller than with conventional collector systems
- The heat pipe and absorber are protected in the vacuum
- Patented glass-to-metal connection enables stable vacuum for 20 years
- High efficiency
- Weather-resistant nano-coating for particularly high hail resistance (Hail impact test according to EN 12975-2 TÜV Rheinland)

Application areas

- Heating support and hot water generation
- Process heat
- Solar houses (complete heating and water heating)

made in Germany

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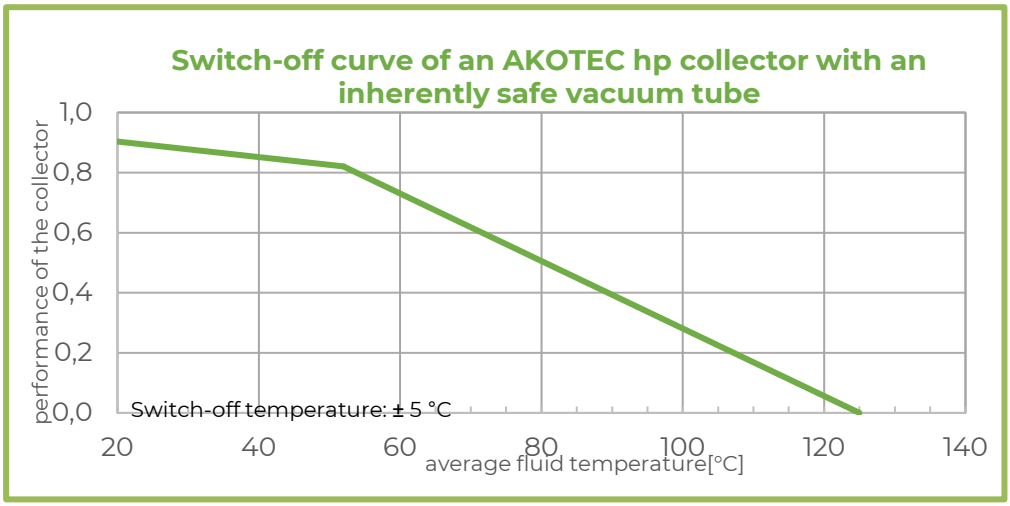
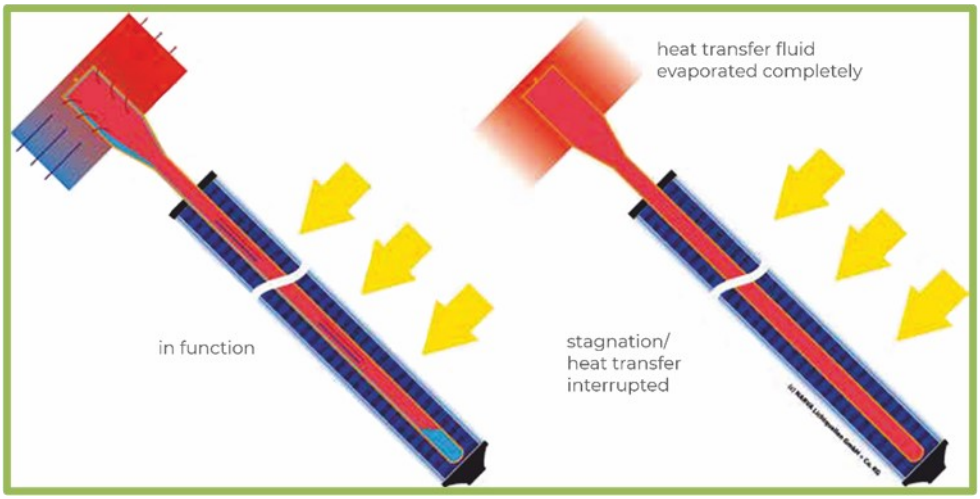
Shutdown curve



Performance tube collector at solar radiation of 1.000 W/m² (collektor with 10 tubes)

Shutdown according to the Narva principle: how it works



Protected knowhow: patent process 10 213 009 869.6

Technical Datas

Nominal Length LT (mm)	2.000
Tube length (mm)	2.010
Diameter glass tube (mm)	56
Aperture area glass (m²)	0,1010
Nominal capacity tube (W) at radiation of 1.000 W/m²	76
Heat transition coefficient linear (W/m²K)	1,12
Heat transition coefficient quadratic (W/m²*K²)	0,004
Efficiency factor	0,750

Subject to technical changes and errors.

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