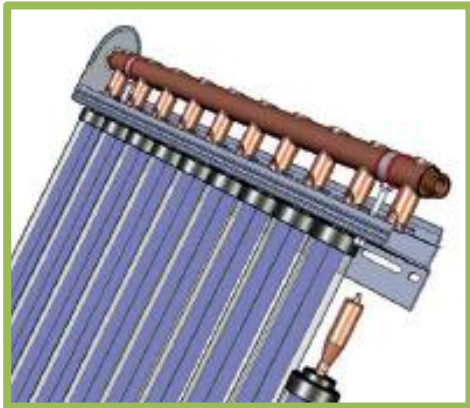


100 °C heat pipe Full vacuum tube

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



Product advantages

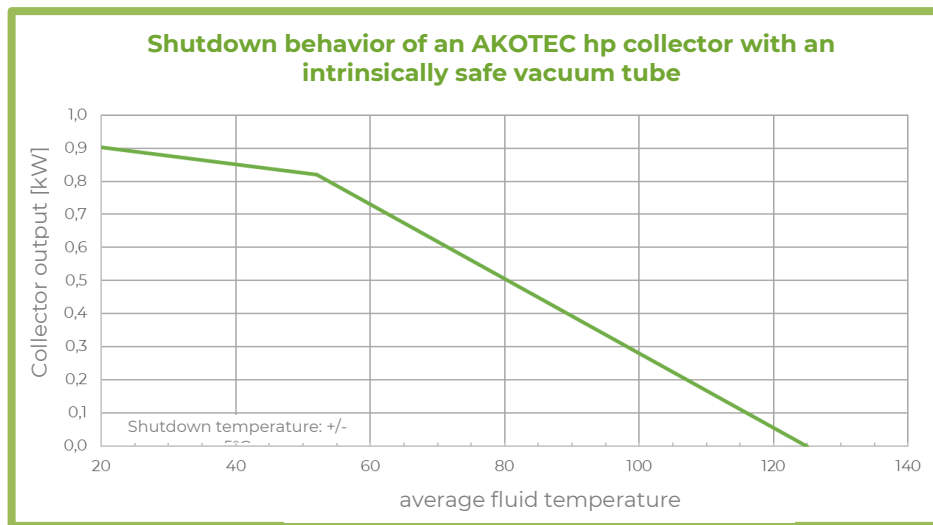
- Intrinsically safe due to integrated overheating protection
- Purely physical shutdown without component wear
- Temperature limitation prevents dangerous steam hammer (cavitation)
- Expansion vessel 60% smaller than with conventional collector systems
- Heat dissipation tube and absorber are protected in a vacuum
- Patented glass-to-metal connection enables a stable vacuum for over 20 years
- High efficiency
- Weather-resistant nano-coating for particularly high hail impact resistance (hail impact test in accordance with EN 12975-2 TÜV Rheinland)

Areas of application

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

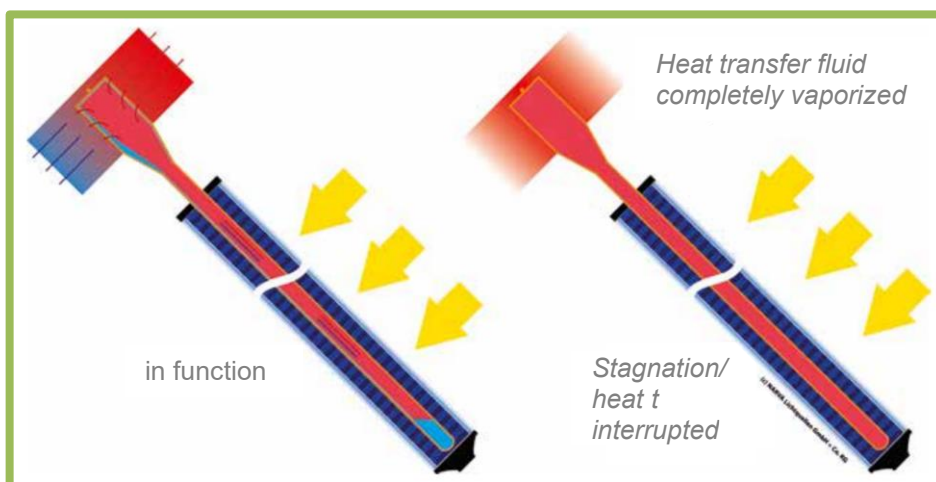


Shutdown curve



Tube collector output with solar radiation of 1,000 W/m² (collector with 10 tubes)

Shutdown according to the NARVA principle: How it works



Protected know-how : Patent procedure 10 213 009 869.6

Technical data

Nominal length LT (mm)	2.000
Pipe length (mm)	2.010
Glass tube diameter (mm)	56
Aperture area glass tube (m ²)	0,1010
Nominal tube power (W) with irradiation of 1.000 W/m ²	76
Linear heat transfer coefficient (W/m ² K)	1,12
Square thermal transmittance W/m ² *K ²)	0,004
Efficiency	0,750

Technical changes and errors excepted.