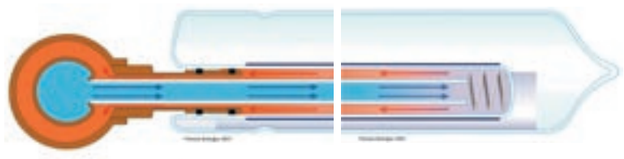
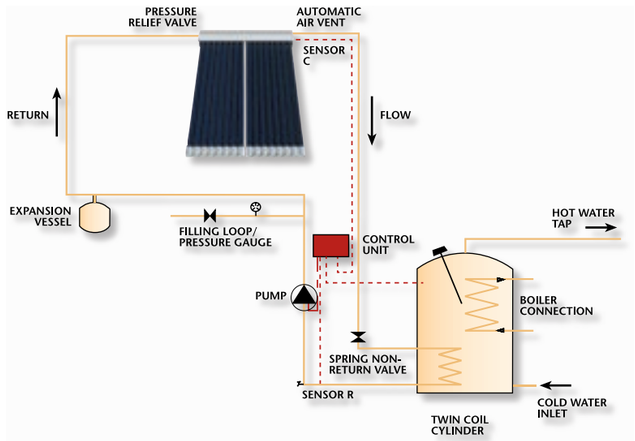


Simple and basic internal connection system for cross-flow collectors.

The SCHOTT vacuum solar collector is designed for applications such as domestic hot water supply, underfloor heating, industrial hot water and solar cooling, using absorption chillers. The SCHOTT vacuum solar tube is manufactured in Germany on a fully automatic production line using state of the art technology with the know-how from SCHOTT. To the customer, this means a guarantee in a constant high level of quality, stable performance and secure supply.



features

- High vacuum solar collectors
- Robust glass - borosilicate
- 360° highly selective ALUXID® absorber
- A mere 20Kg per complete collector panel
- Compact and attractive

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solar energy

Evacuated Tube Solar Collector

Rayotec

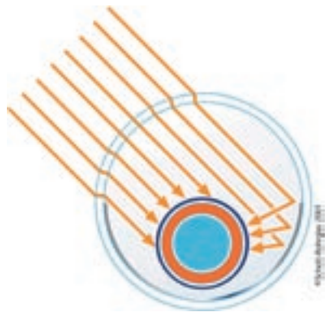
powered by SCHOTT

the company

SCHOTT is a multinational, technology-based group with presence in all major markets of the world. More than 20,000 employees are involved in the development, manufacturing and marketing operations.
SCHOTT's high quality products and innovative services are designed to respond to its customer's needs. Its solar energy products are renowned for maximum performance throughout the year with exceptional durability.
Rayotec Ltd is the appointed distributor partner in the UK for the SCHOTT solar systems. The company has been active in solar energy business since 1987, specialising in both domestic and commercial installations. Rayotec offers full assessment, design, installation and after sales service. Regional Dealers provide a high level of customer care and support.

the exceptional solar collector

The new evacuated concentrating solar collector is the latest technology in high performance solar systems. The SCHOTT collector tubes have a 360° absorber for maximum benefit throughout the day. The absorber of the SCHOTT solar tube is a highly 'selective' coated material ALUXID® which is automatically applied by means of a magnetron sputtering process. This is a highly effective and totally environmentally friendly process. The multi-layer absorber coating effectively converts maximum solar radiation into heat whilst at the same time ensuring very low thermal radiation losses.

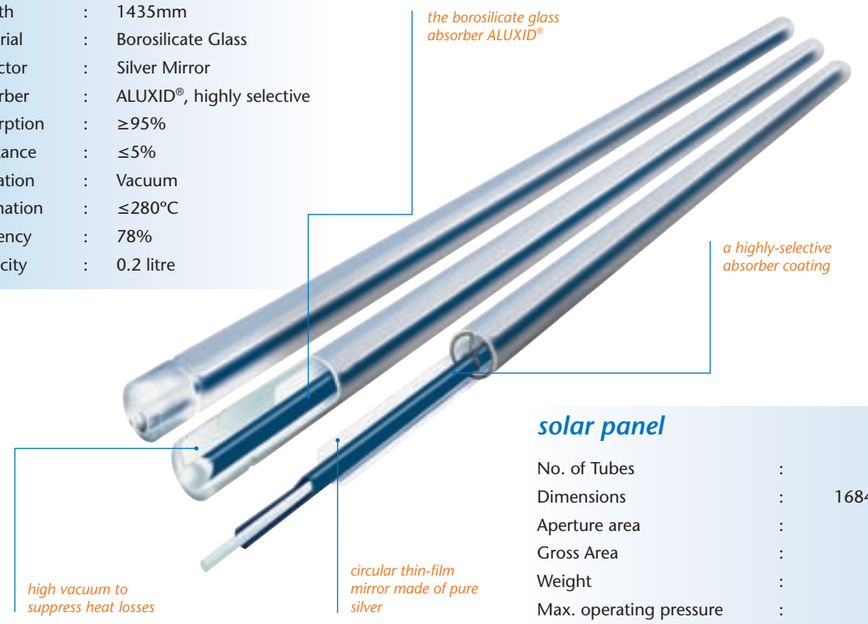


The unique SCHOTT ICR® (Internal Circular Reflector) increases the energy capture area of each tube. The circular silver mirror on the inner surface of the envelope tube reflects all the incidental irradiation on the inner absorber tube. Contrary to external reflectors, the SCHOTT ICR® mirror reflectors do not age or soil hence the reflectance is permanently high. The special SCHOTT reflector redirects and concentrates the solar radiation to the central core 360° absorber.
The SCHOTT high vacuum insulation assures extended collector life.

A special barium Getter keeps a low pressure below 10^{-3}m bar.
A robust borosilicate glass envelope tube encloses the absorber tube and silver mirror, thus protecting both from all types of adverse weathering influence. There is no condensation problem with the SCHOTT solar collectors. It is designed to withstand a stagnation temperature of 280°C!
The SCHOTT vacuum tube solar collector has been independently tested for efficiency and reliability as well as hail resistance (Certified DIN/EN 12975-2). Blue Angel: applied to RAL UZ 73.

solar tube

Diameter	:	35.2mm
Length	:	1435mm
Material	:	Borosilicate Glass
Reflector	:	Silver Mirror
Absorber	:	ALUXID®, highly selective
Absorption	:	≥95%
Emittance	:	≤5%
Insulation	:	Vacuum
Stagnation	:	≤280°C
Efficiency	:	78%
Capacity	:	0.2 litre



solar panel

No. of Tubes	:	16
Dimensions	:	1684 x 765 x 100mm
Aperture area	:	0.808m
Gross Area	:	1.29m
Weight	:	20Kg
Max. operating pressure	:	6 bar
Heat transfer fluid	:	Tyfocor
Filling volume	:	3.2 litre
Efficiency and reliability	:	DIN/EN 12975-2
Hail resistance	:	cert. DIN/EN 12975-2