

Premium line



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Art. No.: 231 041
Description: SchücoSol Al_{Silver}

Art. No.: 221 067
Description: SchücoSol Al_{Bronze}

Flat-plate collectors

Size (L x W x D):	2152 x 1252 x 93 mm
Collector surface:	2.69 m ²
Weight:	55.0 kg
Efficiency:	$\eta_0 = 80.8 \%$
Coefficient of heat loss:	$k_1 = 3.518 \text{ W/m}^2\text{K}$ $k_2 = 0.012 \text{ W/m}^2\text{K}^2$
Angle of radiation correction factor:	$k_{(50)} = 0.96$
Thermal output:	2.0 kW

Absorber

Emission:	$\varepsilon = 5.0 \%$
Absorption:	$\alpha = 95.0 \%$
Absorber surface:	2.52 m ²
Aperture surface:	2.51 m ²
Material:	Copper
Coating:	Sunselect

Hydraulics

Heat transfer volume:	2.0 l
Minimum volume flow:	2.5 l/min
(up to max. 4 collectors in series)	
Pressure loss (2.5 l/min solar fluid):	126.8 mbar
Connection:	12.0 mm Cu pipe
Type of connector:	Clamping ring
Operating pressure:	3.2 bar
Permissible operating excess pressure:	10 bar
Test pressure:	20 bar
Standstill temperature:	210 °C
Permissible flow temperature:	120 °C

Front cover

Solar glazing:	Low-iron, high transparency
Transmittance:	> 91.0 %
Thickness:	4.0 mm

Housing

Material	(for Art. No. 231 041): Aluminium _{Silver} (silver anod., like RAL 7035, light grey)
	(for Art. No. 221 067): Aluminium _{Bronze} (silver anodised, like RAL 8019, gray-brown)
Gaskets:	EPDM/silicone
Thermal insulation:	40 mm mineral wool

SchücoSol

The **SchücoSol** high-performance flat-plate solar collector converts solar energy into heat. It can be used to generate hot water in the home (e.g. central heating) and to heat swimming pools. The high quality Sunselect absorber coating and optimised thermal insulation keep energy losses to a minimum. The heat is transferred to the storage cylinder by means of frost-protected, non-toxic solar fluid.

This solar collector was developed with maximum longevity and ease of assembly in mind, together with high performance. There are three standard versions of **SchücoSol**: "Aluminium_{Silver}", "Aluminium_{Bronze}" and "Aluminium₇₀₃₅" (other RAL coatings available on request).

Piping: meander, 2 connections on the long sides

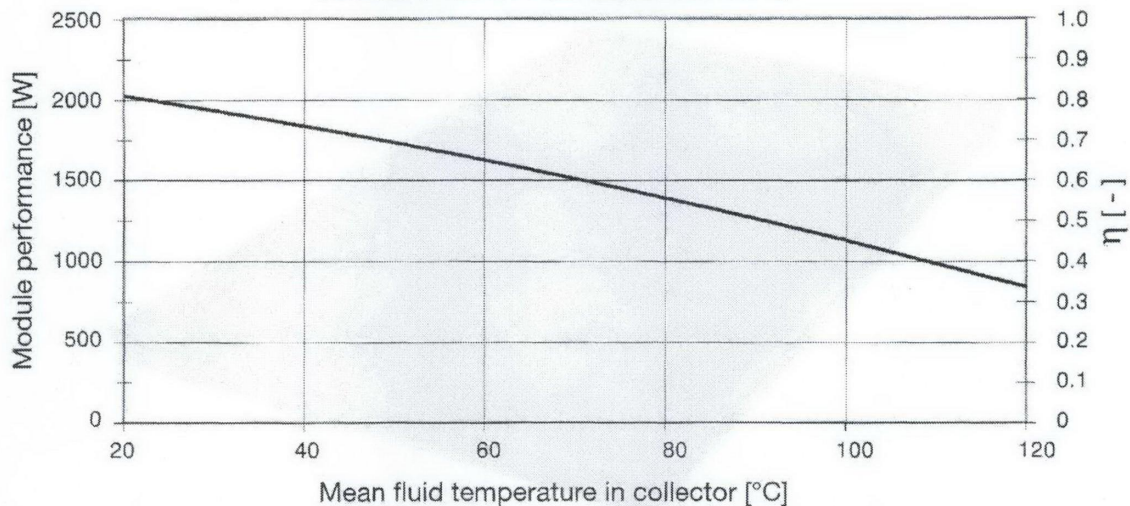
Quality features, certificates

- High level of efficiency due to Sunselect coating on the absorber
- Low energy loss thanks to excellent thermal insulation
- Suitable for all fitting variants including roof-mounted, integrated roof, flat-roof and canopy installation (except landscape canopy installation) and for complete roof and façade integration
Installation: landscape and portrait
- Robust aluminium frame for maximum durability
- Highly reliable with long useful life due to the use of high quality, corrosion-resistant materials
- High-transparency glass covering
- Easy to assemble, installation using special mounting systems, collector-connector-kits or collector connector and installation accessories
- DIN CERTCO (DIN testing and monitoring markings)
- CE mark
- Blue Angel
- SPF quality label
- EC guidelines 97/23/EC (pressure device guidelines)
- Test in accordance with DIN EN 12975-2 (ISFH)



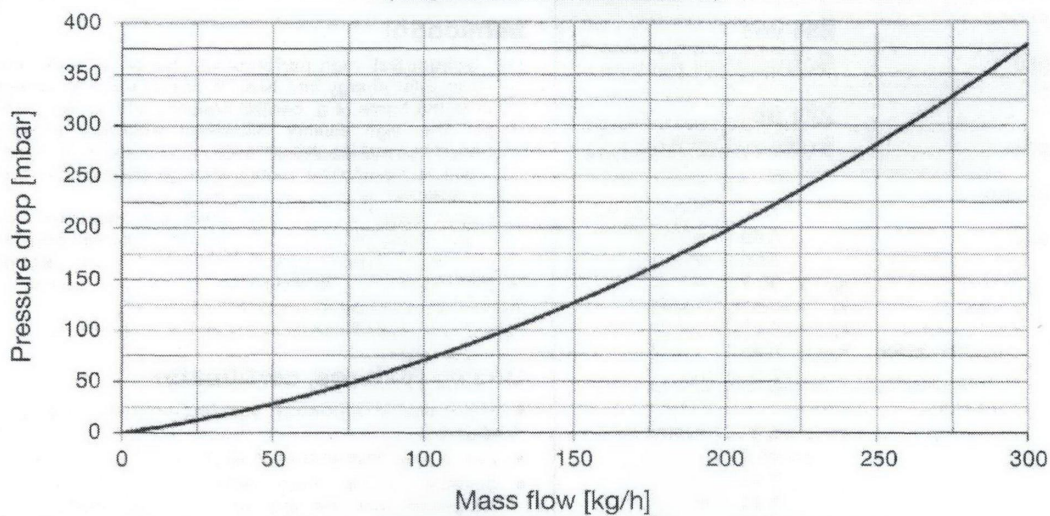
Performance characteristics

(irradiation = 1000 W/m², air temperature = 20 °C)



Pressure drop characteristic curve

(temperature of solar fluid = 20 °C)



Connection methods

