

Premium line



Art. No.: 231 052
Description: SchücoSol.1 Al_{Silver}

Art. No.: 221 483
Description: SchücoSol.1 Al_{Bronze}

Flat-plate solar collector

Size (L x W x D): 2152 x 1252 x 93 mm
Collector surface: 2.69 m²
Weight: 55.0 kg
Efficiency: $\eta_0 = 79.2\%$
Coefficient of heat loss: $k_1 = 3.77$ W/m²K
 $k_2 = 0.012$ W/m²K²
Angle of radiation correction factor: $k_{(50)} = 0.96$
Thermal output: 2.0 kW

Absorber
Emission: $\epsilon = 5.0\%$
Absorption: $\alpha = 95.0\%$
Absorber surface: 2.52 m²
Aperture surface: 2.51 m²
Material: Copper
Coating: Sunselect

Hydraulics

Heat transfer volume: 1.96 l
Minimum volume flow: 2.5 l/min
(up to max. 4 panels in series)
Pressure loss (at 2.5 l/min - water): 75.0 mbar
Connection: 12.0 mm Cu-pipe
Type of connector: Clamp ring
Operating pressure: 3.2 bar
Permissible operating excess pressure: 10 bar
Test pressure: 20 bar
Standstill temperature: 209 °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. 231052): Aluminium_{Silver}
(silver anodised, similar to RAL 7035, light grey)
(for Art. No. 221483): Aluminium_{Bronze}
(bronze anodised, similar to RAL 8019 (grey-brown))
Gaskets: EPDM/silicone
Thermal insulation: 40 mm mineral wool

SchücoSol.1

The SchücoSol.1 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. The hydraulic connections are opposite on the short sides of the collector. This collector is therefore particularly suitable for landscape integrated canopy installation or landscape flat roof installation. This solar collector was developed with maximum longevity and ease of assembly in mind, together with high performance.

There are two standard versions of SchücoSol.1: "Aluminium_{Silver}", "Aluminium_{Bronze}" (other RAL coatings available on request).

- 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 horizontal canopy installation) and for complete roof and façade integration.
Mounting orientation: 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)
- Blue Angel
- CE mark
- EC guide lines 97/23/EC (pressure device guidelines)
- Test in accordance with DIN EN 12975-2 (ISFH)

