Savo 15 SG collector

Key features

- Direct flow MPE absorber with optimised heat transfer
- Highly effective, selective PVD MEMO absorber coating applied to the complete absorber (patent pending)
- High transmittance tempered glass
- Etched antireflective treatment of the glass, which does not degrade over time
- Integrated connection hoses, minimising heat losses and shadowing
- Self-supporting frame structure for loads up to 2500 Pa
- PED module A2 certification according to directive 2014/68/EU of the European commission

Savo 15 SG collector

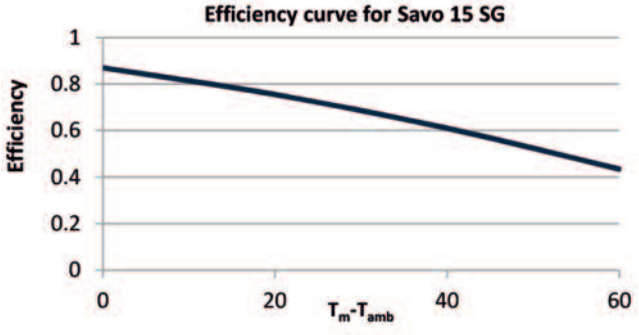
Savosolar collector with Direct Flow MPE absorber

The Savo 15 SG collector is characterised by a direct flow aluminium absorber, which is manufactured from MPE profiles.
This technology is adopted from the automotive industry, where it has dominated heat exchanger designs the past 30 years, and has now been optimised for solar heating by Savosolar.

The absorber is coated with a highly selective PVD MEMO coating (patent pending) and the use of MPE profiles minimises the average distance between the coated surface and the heat transfer fluid. This leads to a uniform temperature distribution where conductive heat losses are minimised.

Just as modern cars and aircraft are assembled with glue, Savosolar assembles its collectors by gluing the galvanised steel frames, molded corner pieces and anti-reflective solar glass together. In combination with a protective membrane in the venting elements, this minimises condensation or dust contamination.

The Savo 15 SG collector is tested and Solar Keymark certified according to ISO 9806:2013 by SPF in Switzerland.



Integrated connections

Savosolar's large area collector for district heating and industrial installations has integrated connection hoses within the collector which allows mounting with no more than 40 mm distance between collector (patent pending).

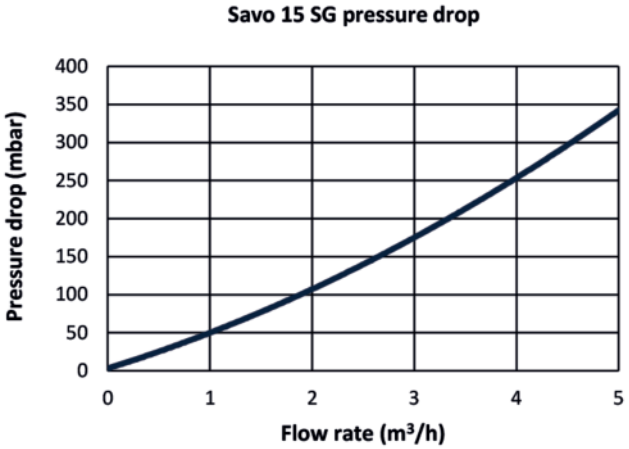
This technology reduces heat loss since the connection hoses are protected by the collector's insulation.

Technical data

Product number	SF500-15
External Dimensions	6158 x 2591 x 157 mm
Gross area	15,96 m^2
Aperture area	14,83 m^2
Efficiency acc. to Solar Keymark*	n_0 = 0.874 a_1 = 3.16 a_2 = 0.0098
Incident angle modifier	K_{50} = 0.98
Stagnation temperature	210 °C
Absorber coating	3 layer highly selective MEMO
Coating absorption	96 +/- 2%
Coating emissivity	5 +/- 2%
Max. operating pressure	1000 kPa (10 bar)
Thermal insulation	80/35 mm mineral wool
Glass	Tempered solar safety antireflective glass
Solar glass transmittance	95%
Liquid content	28,0 liters
Weight empty	443 kg
CE marking	Yes

*Related to aperture area

Pressure drop



Quality

Savosolar has been ISO 9001 certified since 2013 and has also received PED module A2 certification for the production of its large area collectors according to the European commission's directive 2014/68/EU.

Savosolar is the only producer of collectors for district heating and industrial applications with PED module A2 certification.

Technical specifications and optical appearance may vary without prior notice due to constant product improvement.

Savo 15 SG technical datasheet 2018-09-21 EN

Savosolar

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