

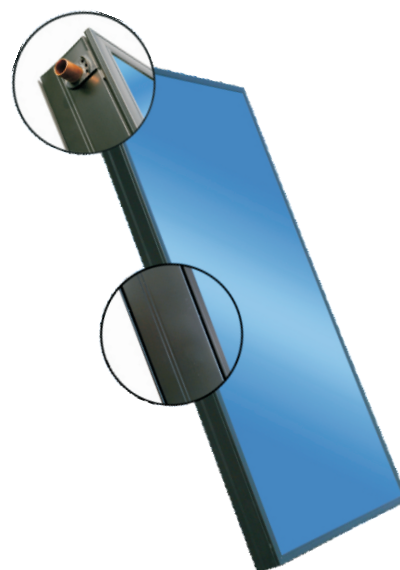
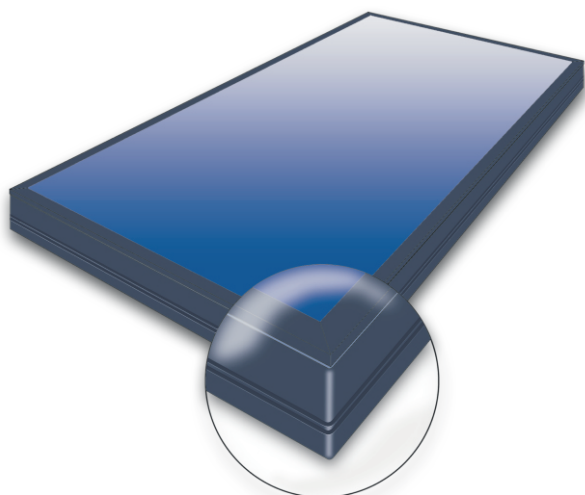
Solar installations transform the energy of solar radiation into utility heat by means of the SX type solar collectors. The heat, extracted in solar collectors, is transferred through the heat-transfer medium into a tank for utility or industrial water, where it is accumulated. The efficient operation of the system is provided by a temperature difference controller which functions together with a circulating pump.

### A Unique Method of Connecting the Absorber

Flat liquid collector SX has an absorber, which uses modern and so far the only of this type on market technology of connection of slab with tube configuration. Technology consist on partial cooper pipe rolling what increase surface transmission seven times more. Additionally merit is fact that coupler what is a solder situated outside the basic surface thermal exchange. In view of the fact that the thermal conductivity of the cooper from pipes and panels are executed outcome 401 W/mK and solder outcome is merely 60 W/mK, what is significant merit.

### Innovative design of the collector frame

The SX collector makes use of a modern technology of bending an aluminum frame. The production technology consists in making the main frame of one part of a section without superfluous welds in corners. A frame without welds is much more tight, has more aesthetic appearance and, more importantly, there is no risk related to unsealing after a few year's operation. The frame of the collector has been additionally protected with a spray coat against the effect of atmospheric conditions.



### Unique Design

Black colour of the collector housing and navy blue and black shade of the absorber, which is visible through the solar glass, improves the appearance of each roof.

### High Efficiency of Operation

An excellent absorber, a perfect construction of casing as well as a very good thermal insulation of the SX collector allows it to achieve very high efficiency of operation both in summer and in winter.

### Optional assembly on each type of roof

Specially designed components made from stainless steel and aluminum ensure quick and safe assembly of collectors on any kind of roof.

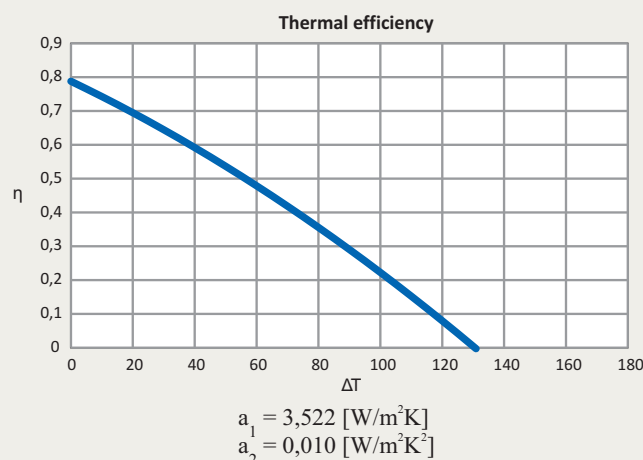
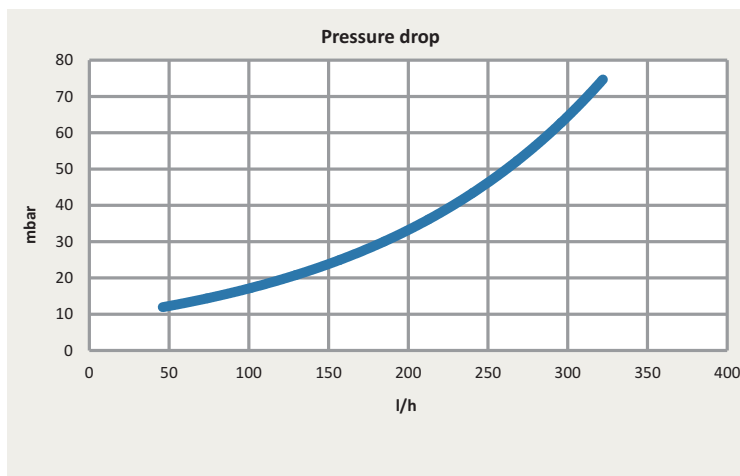
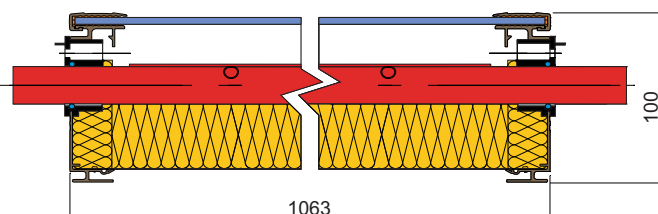
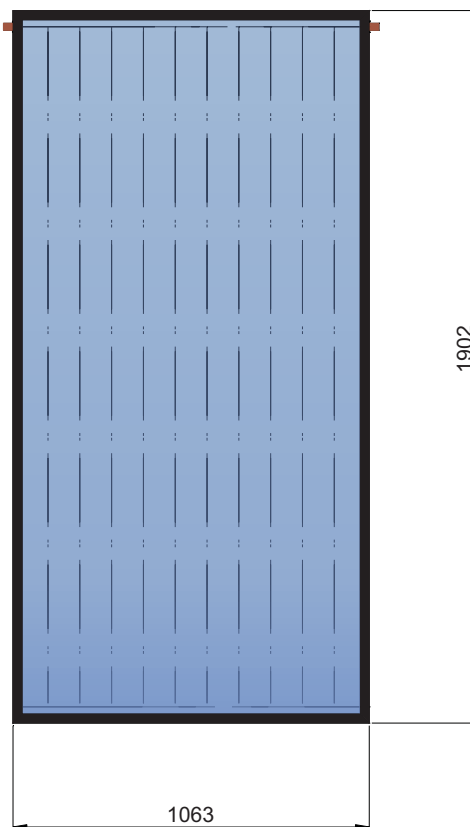
### Standards and tests

The SX collector meets the requirements of the EN 12975 standard; it has the Solar Keymark quality mark.

Specification:



<b>Type</b>	The SX 2.0 flat fluid collector
<b>Application</b>	Aid in preparing hot utility water Aid in floor heating Aid in swimming pool heating
<b>Dimensions:</b>	
Length	1902 mm
Width	1063 mm
Height	100 mm
Weight	38 kg
<b>Surface areas:</b>	
Gross area	2,0 m <sup>2</sup>
Aperture area	1,85 m <sup>2</sup>
Absorber area	1,84 m <sup>2</sup>
<b>Frame:</b>	
Material of the frame	Aluminum (without welds)
Sealing material	Glue
<b>Collector bottom:</b>	
Material	0,4 mm thick sheet aluminum
<b>Absorber:</b>	
Material	Copper
Thickness	0,2 mm
Selective layer	High-selective
Absorption rate	0,95
Emission rate	0,05
Absorber capacity	1,4 l
Heat transfer fluid	Propylene glycol + water
Flow form	Double harp
Longitudinal pipes of the absorber	10 x Ø8 x 0,5 mm
Collective pipes	2 x Ø22 x 1,0 mm
Number of connections	2
<b>Pane:</b>	
Type	Solar hardened glass
Thickness	4 mm
Transmission rate	0,905
<b>Heat insulation:</b>	
Material	Mineral wool
Thickness at the back wall	40 mm
Thickness at the side wall	20 mm
<b>Additional data:</b>	
Stagnation temperature	Max. 204,4°C
Max. working pressure	6 bar
Efficiency of the collector $\eta_0$	78,8%
Micro-ventilation	Yes
Recommended flow	25 l/m <sup>2</sup> h
Connection in the first row	To 7 collectors (recommended to 5)
<b>Available colours:</b>	
Black	RAL 9005
<b>Assembly options:</b>	Roof, Terrace, Foundation, Wall
Compliance with a standard	EN 12975



Type	Remarks	Cat. no.
Collector SX 2.0		132 101 120