

FULL-PLATE SOLAR COLLECTORS

SUPERLINE L-1 FSB SOLAR COLLECTOR

Superline L-1 FSB collectors are manufactured under high quality conditions. Contains sputtered blue high selective copper full-plate absorber surface, to get the best performance under poor solar radiation.

Technical information

Absorber: High selective coated full-plate copper sheet.

Front cover: Tempered low-iron solar glass with high transmittance

Frame: Electrostatic powder coated aluminium extrusion profiles

Insulation: Rockwool



Specifications

Type	Superline L-1 FSB	
Specification	Unit	Values
Dimensions (lengthxwidthxheight)	mm	1892x1204x99
Gross area	m ²	2,28
Aperture area	m ²	2,16
Cover thickness	mm	4
Cover material		tempered low-iron solar glass
Riser tubes material		copper
Riser tubes diameter	mm	Ø 8
Number of riser tubes	pcs.	10
Manifold tubes material		copper
Manifold tubes diameter	mm	Ø 22
Absorber type		grid (parallel) full-plate absorber
Absorber surface material		blue selective coated copper
Absorbance of absorber surface		0,95±0,02
Emissance of absorber surface		0,05±0,02
Empty weight of collector	kg	41
Frame material		electrostatic powder coated aluminium
Insulation material		rock wool
Insulation thickness lateral/rear	mm	25/40
Fluid volume of absorber	lt	1,49
Allowed heat transfer fluid		glycol
Maximum working pressure	bar	9
Sealing material		EPDM
Optical performance of collector (eta 0)	%	73,1
Heat transfer coefficient (a1)	W/m ² K	3,78

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