

TECHNICAL DATA OF SOLAR COLLECTORS HEAT PIPE SCM18-01



PARAMETER	
Number of vacuum tubes	18
Tube design	Vacuum tube with HEAT PIPE technology and round absorber
Mounting angle	15 - 50°
Pipe diameter	58 mm
Wall thickness	2.0 mm
Collector height	1915 mm
Collector width	1415 mm
Collector depth	106 mm
Collector weight	52 kg
Liquid volume	1.12 L
Connection spigots	22 mm
Maximum pressure	6 bar
Total area	2.71 m ²
Active aperture area	1.694 m ²
Materials	Al/Cu/borosilicate glass/stainless steel
Coating	High-selective on copper substrate
Insulation	Vacuum/mineral wool
Absorption	> 95 %
Emissions	< 5 %
Optical efficiency of the absorber / aperture η_0	0.634 / 0.44
Linear loss coefficient of absorber / aperture	1.49 W/(m ² K) / 0.017 W/(m ² K)
Coefficient of nonlinear loss of absorber / aperture	0.95 W/(m ² K) / 0.011 W/(m ² K ²)
Pipe stagnation temperature	210°