

# Solar Flat Plate technical specifications

## Clearly Solar Flat Plate Collectors

	Vertical collector SRV 2.3	Horizontal collector SRH 2.3
<b>Dimensions &amp; weight</b>		
Orientation	Vertical (Portrait)	Horizontal (Landscape)
Height / Width / Depth (mm)	2035 / 1233 / 80	1233 / 2035 / 80
Overall collector area (mm)	2.51	2.51
Aperture area (m2)	2.35	2.35
Absorber area (m2)	2.32	2.32
Weight (empty) (kg)	38	38
Capacity (solar fluid) (l)	1.85	2.16
<b>Performance</b>		
Solar glass transmission (%)	91	91
Solar radiation absorption (%)	95	95
Solar radiation emission (%)	5	5
Efficiency $\eta_0$ (%)	79.0	80.1
Efficiency coefficient a1 (W/M <sup>2</sup> K)	2.41	3.32
Efficiency coefficient a2 (W/M <sup>2</sup> K <sup>2</sup> )	0.049	0.023
Max operating pressure (bar)	10	10
Stagnation temperature (°C)	210	210
Certification	CE 0036 & Solar Keymark	CE 0036 & Solar Keymark
<b>Materials &amp; construction</b>		
Absorber Sheet	Aluminium	Aluminium
Absorber plate coating	Sunselect (selective)	Sunselect (selective)
Absorber tube	Copper	Copper
Absorber tube joints	Laser welded	Laser welded
Frame Aluminium	Extruded sides / sheet rear	Extruded sides / sheet rear
Glazing	Safety glass (low iron), 3.2mm	Safety glass (low iron), 3.2mm
Rear insulation	40mm	40mm
Solar fluid	Water / propylene glycol	Water / propylene glycol
Flow / return connections	DN 16 (G3/4")	DN 16 (G3/4")

