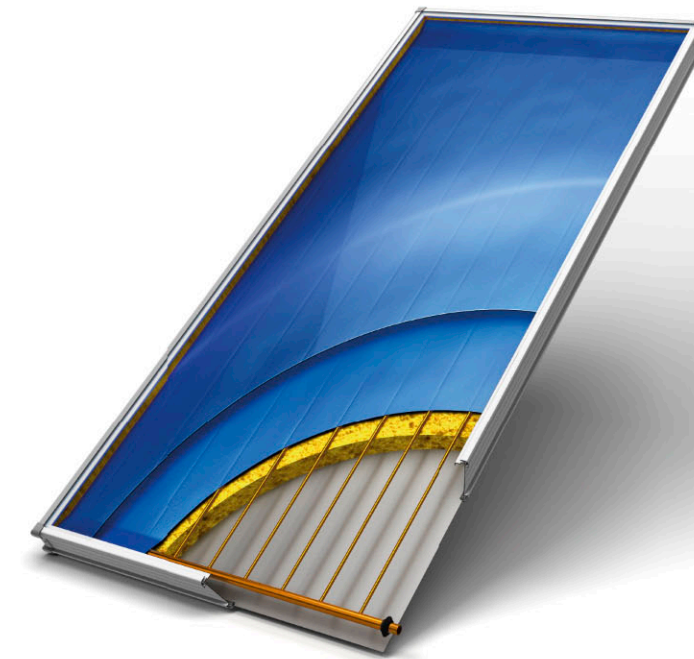


Flat plate solar collectors with selective absorber



Flat plate solar collectors



MODEL		TESY SP 06 200	TESY SP 06 250
Dimensions			
L	mm	2176	2176
B	mm	966	1181
H	mm	90	90
Gross surface area	m ²	2.1	2.57
Aperture area	m ²	1.87	2.32
Net weight	kg	31	38
Absorber	type	Copper; Full plate	Copper; Full plate
Coating		Selective type	Selective type
Absorption factor	%	95	95
Emission factor	%	5	5
Max operating pressure	bar	6	6
Test pressure	bar	9	9
Max operating temperature	°C	160	160
Position angle	°	25-55	25-55
Heat transfer fluid		PG:H ₂ O (30:70)	PG:H ₂ O (30:70)
Liquid content		1.4	1.7
Pipe fitting types		Ø 22	Ø 22
Collector efficiency	%	77	77
Heat losses coefficient a1	W/m ² K	3.05	3.06
Heat losses coefficient a2	W/m ² K ²	0.0074	0.0073
Frame		Al	Al
Bottom		Al	Al
Cover glass		3.2 mm prismatic - low iron tempered solar glass	4 mm prismatic - low iron tempered solar glass
Collector heat insulation	type	mineral wool	mineral wool
Welding type		ultrasonic	ultrasonic