Ideal Solar

Solar Flat plate collectors

TS8000 On-Roof and TS8001 In-Roof

These lightweight flat panel collectors are manufactured on their own robotic line

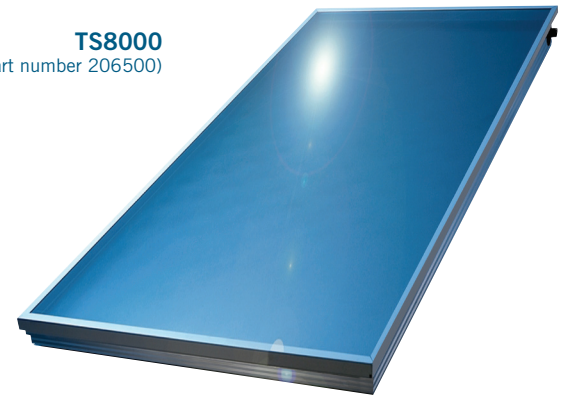
The number of individual components has been kept to a minimum for this product concept. A specifically developed glue is the only joining technique used at the flat plate collector.

The collectors come with an aluminium absorber. Equipped with a modular mounting system, the collectors can be used for both flat-roof and roof-mounted installations.

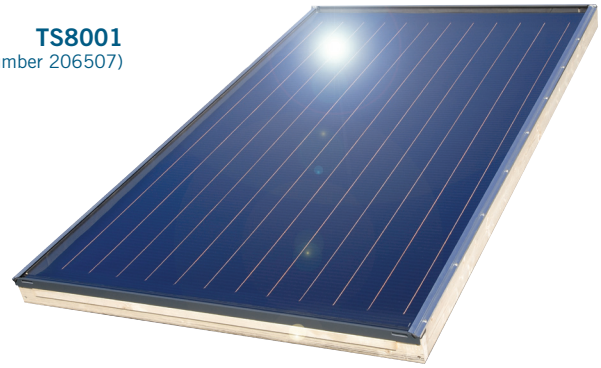
- Light weight compact solution
- Models for in-roof, on-roof and A frame installations
- Quick and easy to install
- Ten year warranty*

*Terms and conditions apply

TS8000
(part number 206500)



TS8001
(part number 206507)



10 Year Warranty

Solar Flat Plates

www.idealheating.com

Ideal Solar

Solar flat plate collectors

TS8000 On-Roof and TS8001 In-Roof

Technical Specification

		Flat Plate Collectors	
Model		**TS 8000**	**TS 8001**
Size	Collector type	Roof-mounted collector	In Roof-mounted collector
	Overall area (m2)	2.02	2.51
	Absorber area (m2)	1.84	2.28
	Aperture area (m2)	1.91	2.32
	L x W x H (mm)	1730 x 1170 x 83	2058 x 1227 x 105
	Weight (kg)	35	49
Performance and Installation	Absorber capacity (l)	1.4	1.7
	Housing	Al-frame	Wooden frame
	Surface	Al, natural or anodized (Improved corrosion resistance)	
	Back plate	Al-sheet	
	Absorber sheet	Al highly selectively coated	Al, highly selective vacuum coating
	Absorption* (%)	95	95
	Emission* (%)	5	5
	ø manifold (mm)	18 or 22 (¾ or 1")	22 (1")
	ø risers (mm)	8	8
	Connections	Blank (compression joint), coupling nut with flat seal	Coupling nut with flat seal
	Glass	3.2 mm tempered solar safety glass	3.2 mm tempered solar safety glass
	Transmittance of glass (%)	95	90.2
	Insulation	40 mm mineral wool plate	50 mm mineral wool plate
	Max. stagnation temperature	234˚C under test conditions	234˚C under test conditions
	Max. operating pressure	10 bar	10 bar
	Aperture area	1.922m²	2.33m²
	Conversion factor N_0	0.769	0.776
	Heat loss coefficient a_1	3.847W/m²K	3.293W/m²K
	Proper heat transfer medium	Polypropylene glycol/water mixture	Polypropylene glycol/water mixture
	Approved installation angle min.	15˚, max. 75˚	15˚, max. 75˚
	Certificate	EN 1 2975-1.2 SOLAR KEYMARK	

SAP data

TS8000 - On-Roof
Aperture area - 1.922m²
Conversion factor N_0 0.769
Heat loss coefficient a_1 3.847W/m²K

TS8001 - In-Roof
Aperture area - 2.33m²
Conversion factor N_0 0.776
Heat loss coefficient a_1 3.293W/m²K