

IDEAL SOLAR

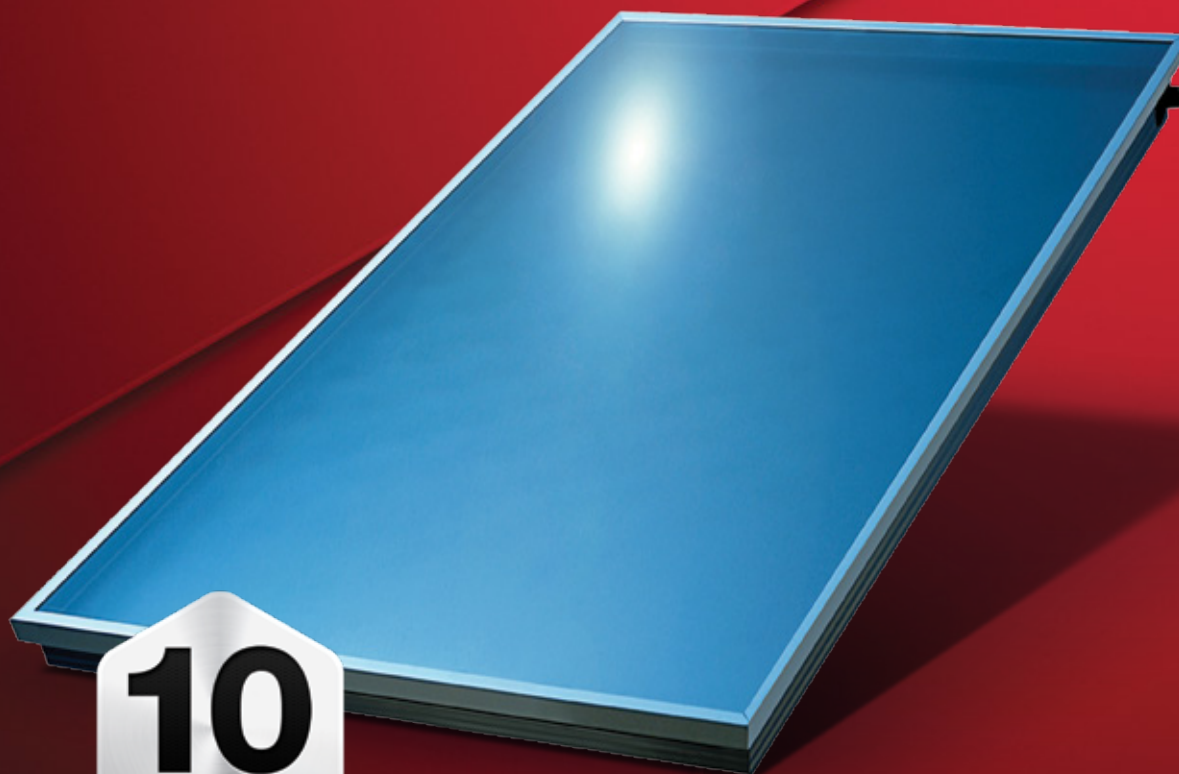
TS8000 ON-ROOF and TS8001 IN-ROOF

SOLAR FLAT PLATE COLLECTORS

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, in-roof and on-roof installations.



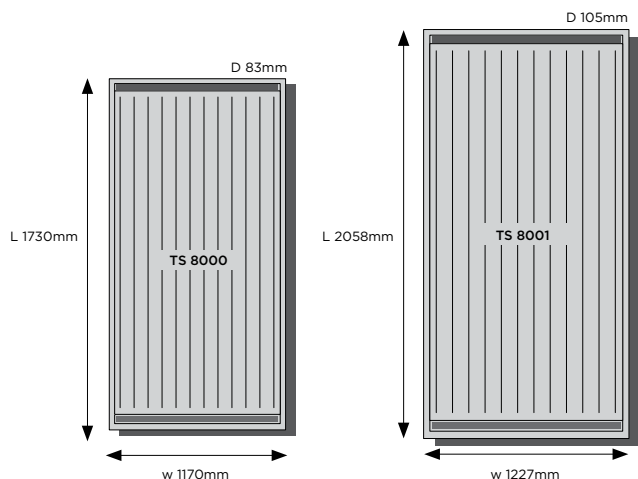
TS8000 model shown

SOLAR FLAT PLATE COLLECTORS

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



DIMENSIONS.



SAP DATA

TS8000 - On-Roof

Aperture area - 1.922m²
 Conversion factor N_0 0.769
 Heat loss coefficient a_1 3.847W/m²K
 a_2 0.0103W/m²K

TS8001 - In-Roof

Aperture area - 2.33m²
 Conversion factor N_0 0.776
 Heat loss coefficient a_1 3.293W/m²K
 a_2 0.011W/m²K

TECHNICAL SPECIFICATIONS.

	TS 8000	TS 8001
SIZE		
Collector type	Roof-mounted collector	In Roof-mounted collector
Overall area (m ²)	2.02	2.51
Absorber area (m ²)	1.84	2.28
Aperture area (m ²)	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
∅ manifold (mm)	18 or 22 (¾ or 1")	22 (1")
∅ 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	1.922m ²	2.33m ²
Conversion factor N_0	0.769	0.776
Heat loss coefficient a_1	3.847W/m ² K	3.293W/m ² K
Proper heat transfer medium	Polypropylene glycol/water mixture	Polypropylene glycol/water mixture
Approved installation angle min.	15°, max. 75°	15°, max. 75°
Certificate	EN 12975-1.2 SOLAR KEYMARK	