



ABSOLICON T160 SOLAR COLLECTOR

Absolicon T160 is a medium-sized parabolic concentrator for heat up to 160°C & process steam.

Based on more than 20 years of research and development, the Absolicon T160 is a state-of-the-art solar collector with record-high performance.

It's certified with Solar Keymark and ICC-SRCC, proving its high reliability and quality, and the technology is protected by several patents.



Our certificates - quality stamped in writing

stages according to international standards.





Record-high optical efficiency

Captures >76% of the solar energy hitting the collector.



Warranty

The collector comes with a 5-year hardware warranty.



Lifetime

Expected performance lifetime of collectors exceed 25 years.



Streamlined design

Optimized by its streamlined design that allows mass production.



Patented technology

Absolicon T160 technology and components are protected by several patents.

Reg.no 011-7S2902C

Reg.no 10002145

Each collector goes through strict quality tests during the production

Collector Type	Glass-covered parabolic trough collector	1 096 mm
Recommended heat transfer fluid	Water, Propylene Glycol (max 40%)	
Volume of heat transfer fluid	2.2 Liters	
Inner diameter of receiver tube	21.9 mm	
Maximum mechanical load	1000 N/m ²	
Operational temperature	60 - 160°C	siller
Design temperature	210°C	
Design pressure	20 bar(g)	
Stagnation temperature	460°C	
Receiver	Stainless steel, optically selective coating	
Glass	4 mm hardened glass, anti-reflective coating	
Reflector	Silver based reflector on steel sheet	
Weight	148 kg	
Aperture area	5.51 m ²	

TRACKING SYSTEM MAKES THE COLLECTOR FOLLOW THE SUN TO MAXIMIZE PERFORMANCE

PERFORMANCE PARAMETERS	BASED ON APERTURE AREA	BASED ON GROSS AREA
η ₀	0.764	0.697
a ₁	0.8 W/m²K	0.73 W/m²K
a ₂	0 W/m²K²	0 W/m ² K ²
a ₅	1626 J/m²K	1483 J/m²K
K _d	0.12	0.12

6.04 m²



TEST METHOD: ISO 9806:2013, CLAUSE 28

Gross area

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INCIDENCE ANGLE MODIFIER IN EAST-WEST ORIENTATION

θ	10	20	30	40	50	60	70	80	90
K _b (0,θ)	0.99	0.99	0.98	0.96	0.91	0.77	0.53	0.18	0

COLLECTOR PRESSURE DROP

Flow rate [m³/h]	0.0	0.3	0.6	0.8	1.4	1.8
Pressure drop [mbar]	0.0	4	9	16	40	63



