



**ABSOLICON**  
S O L A R C O L L E C T O R S

# T160

## SOLAR COLLECTOR

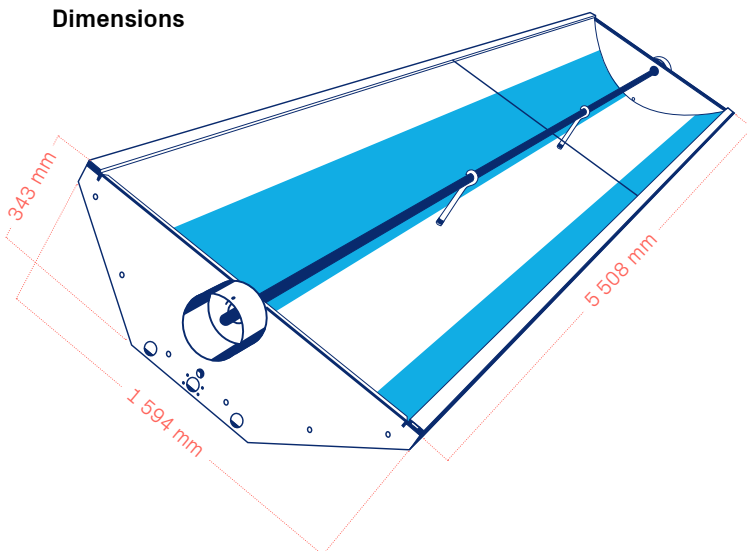
Absolicon T160 is a medium-sized parabolic concentrator for heat up to 160 °C & steam up to 8 bar.

Absolicon T160 Solar collector is the first of its kind to be certified by Solar Keymark and has the highest optical efficiency ever achieved for a small parabolic trough. Each world-class component of the patented technology contributes to the total record-high performance.

Absolicon T160 has excellent durability, allowing the collectors to be delivered with 25 years lifetime and a 5-year year hardware warranty.

<b>Collector Type</b>	Glass-covered parabolic trough collector with one-axis tracking
<b>Recommended Heat Transfer Fluid</b>	Water, Propylene Glycol (max 40%)
<b>Volume of Heat Transfer Fluid</b>	2.2 liter
<b>Operational Temperature</b>	60 - 160 °C
<b>Stagnation Temperature</b>	460 °C
<b>Maximum Operating Pressure</b>	Up to 8 bar
<b>Pressure Rating</b>	16 bar
<b>Receiver</b>	Stainless steel, optically selective coating
<b>Glass</b>	4 mm hardened glass, antireflective coating
<b>Reflector</b>	Polymer embedded silver on steel sheet
<b>Weight</b>	148 kg

### Dimensions



**Absolicon T160 Solar Collector is certified by:**



Reg.no 011-7S2902C



Reg.no 10002145



## Performance test summary

**Test Method** Quasi Dynamic

**Collector aperture area** 5.5 m<sup>2</sup>

## Performance Parameters (based on aperture area)

**$\eta_0$**  0.766

**$a_1$**  0.368 W/m<sup>2</sup> °C

**$a_2$**  0.00322 W/m<sup>2</sup> °C

**$K_d$**  0.0859

## Incidence angle modifier in east-west orientation

$\theta$	10	20	30	40	50	60	70	80	90
$K_b(0,\theta)$	0.99	0.99	0.98	0.96	0.91	0.77	0.53	0.18	0

## Pressure drop properties

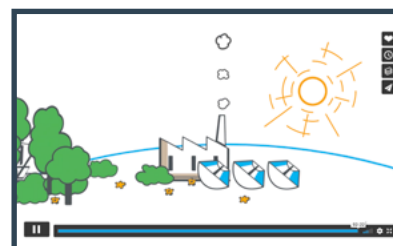
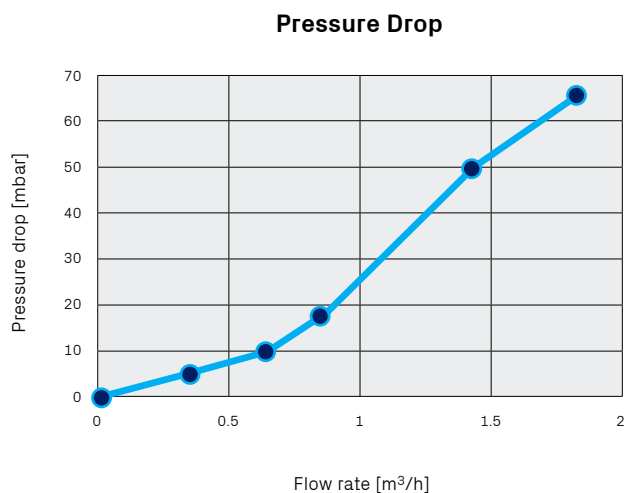
**Test Method** ISO 9806:2013, clause 28

**Ambient temperature** 15 ± 2 °C

**Fluid temperature** 20 ± 0.5 °C

## Collector pressure drop

<b>Flow rate [m<sup>3</sup>/h]</b>	0.0	0.3	0.6	0.8	1.4	1.8
<b>Pressure drop [mbar]</b>	0.0	4	9	16	40	63



**VIDEO: HOW T160 COLLECTOR WORKS**

Learn more about T160 solar collector  
[www.absolicon.com](http://www.absolicon.com)