

# T160

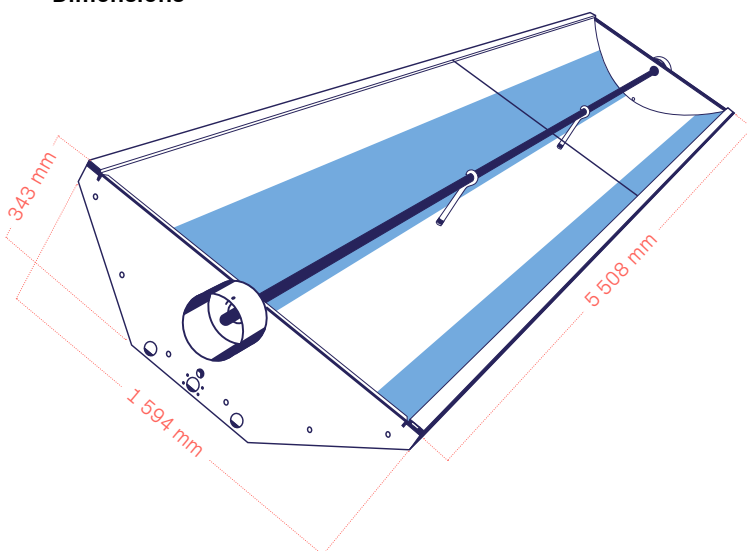
## SOLAR COLLECTOR

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>	8 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
<b>Dimensions</b>	



### Solar Keymark Certification

The Solar Keymark certification is proof of the reliability and high quality of the product.

### SolarImpulse Label

Solar Impulse Efficient Solution is awarded to companies and technology that protect the environment in a profitable way.

## 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

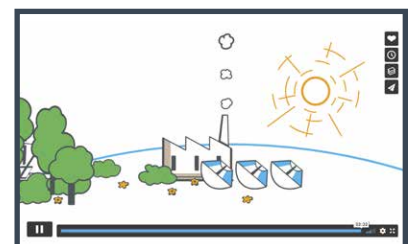
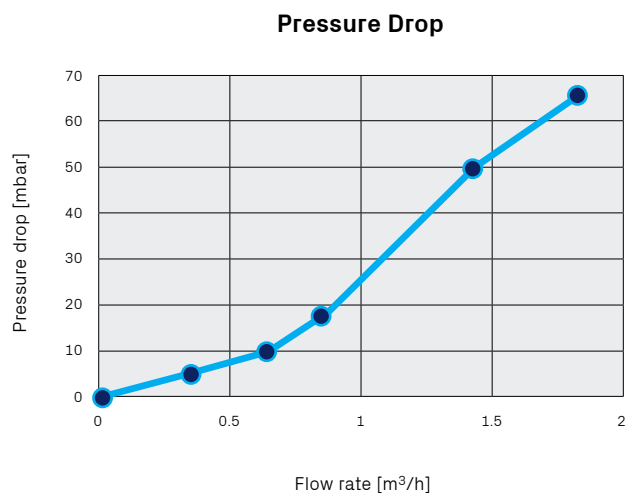
$\theta$	10	20	30	40	50	60	70	80	90
$K_b(0,\theta)$	0.99	0.99	0.98	0.96	0.91	0.77	0.53	0.18	0

## Pressure drop properties

Test Method	ISO 9806:2013, clause 28
Ambient temperature	15 ± 2 °C
Fluid temperature	20 ± 0.5 °C

## Collector pressure drop

Flow rate [m <sup>3</sup> /h]	0.0	0.3	0.6	0.8	1.4	1.8
Pressure drop [mbar]	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)