

# SUNTRAC™ SOLAR HIGH TEMPERATURE THERMAL SOLAR SMARTPANELS™



**SUNTRAC 27TC**  
Collector System  
Patented

The **SUNTRAC SOLAR** panel is the only high temperature commercial solar thermal panel made in the U.S.A. that

**DELIVERS HOT WATER**  
**UP TO 250° F**

## APPLICATIONS

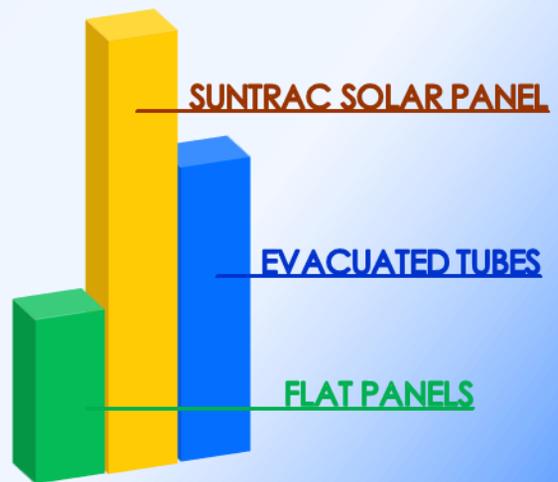
- ✓ FOOD/BEVERAGE PROCESSING
- ✓ LAUNDRY
- ✓ SANITIZING
- ✓ SPACE HEATING - A/C
- ✓ MANUFACTURING

**SUNTRAC SOLAR** is the most cost-effective and high performance solar thermal product on the market for **COMMERCIAL & RESIDENTIAL**

## SUNTRAC PANELS HIGH QUALITY PERFORMANCE BENEFITS:

- Worry-free operations
- 10 year panel warranty
- Affordable and cost effective
- *RiteTemp*™ temperature control system
- Superior return on investment
- Reduces energy/fuel bill
- Sustainable & recyclable
- Provides higher utilization of installation area than all other tracking concentrators
- Each panel offsets 1.7 tons of CO<sub>2</sub>e annually
- Generates green leads

## BTU OUTPUT COMPARISON CHART



Start saving today with  
**SUNTRAC SOLAR PANELS**  
Call 480-999-6091  
Or Visit [SunTracSolar.com](http://SunTracSolar.com)

**SUNTRAC™**  
**SOLAR**  
HOT WATER

# CONSTRUCTION & SPECIFICATIONS



**SMARTRAC™**  
Photo Sensor  
(tracks the sun)

**SUNTRAC**  
Computer &  
Stepper Motor  
(changes collector  
angles as it tracks the sun)



## FEATURES

- Internal manifold for side-by-side mounting.
- Tracker and brushless stepper motor are serviceable through motor cover.
- Tracks daily east-to-west and returns to east at the end of day.
- Tracking can be turned off/on to eliminate stagnation conditions and control high temperature limit.
- *RiteTemp™* temperature system controls output temperature
- Designed for 30 year life
- Low Voltage for Safety
- Panels are self-contained simplifying field installation.

**The World's Leading  
Manufacturer of  
High Temperature  
Thermal Solar Panels**

### Collector Case/Frame

Extruded aluminum with powder coat paint, 6063-T5  
Back plate, textured aluminum 0.050 inch (0.127 cm)  
thick overall

### Cover

Tempered low iron plate glass, 3/16" thick (0.1875",  
0.476 cm)

### Cover Sealing

EPDM extruded U gasket, vulcanized corners

### Insulation

0.5 " (1.27 cm) thick insulation

### Flow Rate

0.5–1 GPM per collector - (1.9–3.8) LPM per collector

### Net Aperture Area

Reflector area: 8 foot = 28 sq. ft.2 (2.6m<sup>2</sup>) 10 foot = 36  
sq. ft.2 (3.34m<sup>2</sup>)

### Weight

8 foot: 190 pounds (86kg); 10 foot: 230 pounds (104kg)

### Dimensions

8 foot: 96" x 48" x 7" (2.44m x 1.22m x 17.8cm)

10 foot: 120" x 48" x 7" (3.05m x 1.22m x 17.8cm)

### Concentrators

Extruded aluminum parabolic reflector  
Metalized aluminum foil mirror (for reflector surface)  
Teflon bearings for high temperatures and low friction

### Absorber

Copper tubing, 1/2" (1.27cm) parallel risers 1" (2.54cm)  
L headers; pressure tested to 150psi  
Black selective paint; absorptivity .92/.96,  
emissivity .2/.4

### Sun Trackers

Two shaded phototransistors and brushless stepper  
motor: 12vdc, 5W, runs 2 minutes/day

### Mounting Provisions

Recessed lip on frame for standard fasteners