

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

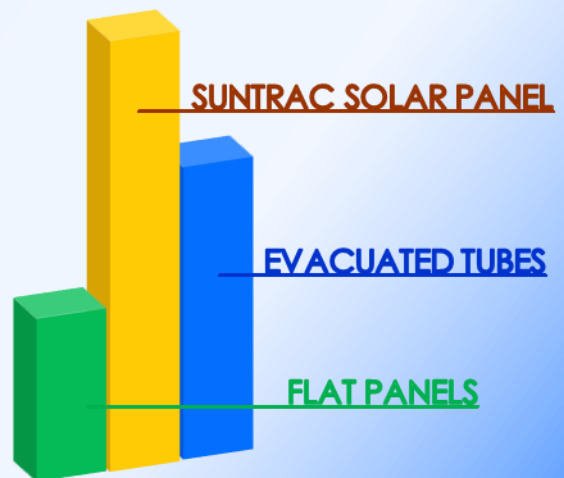
- ✓ FOOD/BEVERAGE PROCESSING
- ✓ LAUNDRY
- ✓ SANITIZING
- ✓ SPACE HEATING - A/C
- ✓ MANUFACTURING

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 CO₂e annually
- Generates green leads

BTU OUTPUT COMPARISON CHART



Start saving today with
SUNTRAC SOLAR PANELS
Call 480-999-6091
Or Visit SunTracSolar.com

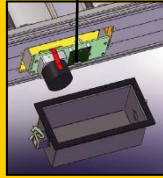
SUNTRAC™
SOLAR
HOT WATER

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 (2.6m²) 10 foot = 36
sq. ft.2 (3.34m²)

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