

THE WORLD'S LEADING MANUFACTURER OF
HIGH TEMPERATURE THERMAL SOLAR PANELS

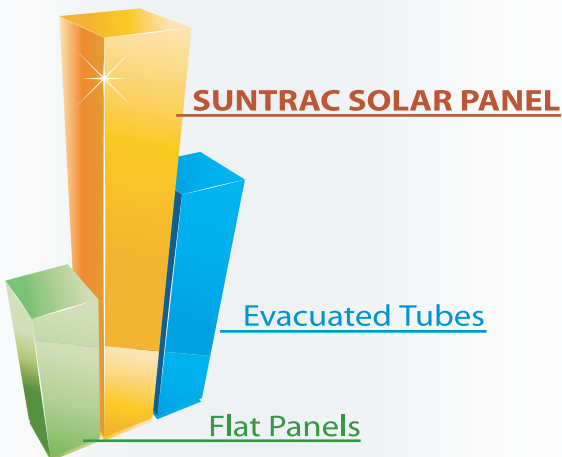
THERMAFLO 
ENGINEERING COMPANY Since 1986
Manufacturers Of Steam Fired Specialty Equipment



SUNTRAC 27TC
Collector System
Patented

**Out performs all other products
in high temperature applications
by up to 50%**

BTU OUTPUT COMPARISON CHART



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

*SUNTRAC SOLAR is the most cost-effective
and high performance product on the market
for commercial and residential solar thermal use.*

APPLICATIONS

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

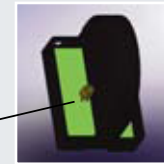
SUNTRAC PANELS HIGH QUALITY PERFORMANCE BENEFITS:

- Worry-free operations
- 10 year panel warranty
- Affordable and cost effective
- 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

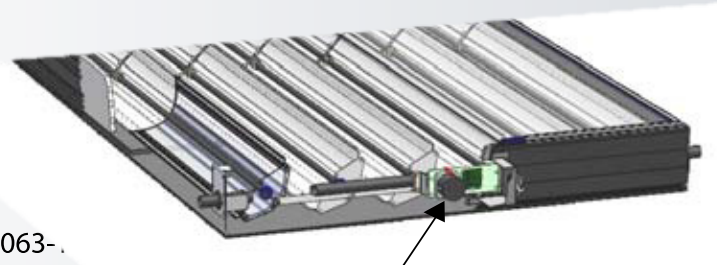
**Start saving today with
SUNTRAC SOLAR PANELS.**

CALL
704.940.1228

or VISIT www.thermafloengineering.com
MADE IN U.S.A.



SUNTRAC
Photo Sensor
(tracks the sun)



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

CONSTRUCTION & SPECIFICATIONS

Collector Case/Frame

- Extruded aluminum with powder coat paint, 6063-
- 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

1 GPM per collector - 3.8 LPM per collector

Net Aperture Area

Reflector area = 27 sq. ft. (2.5 m²)

Weight

170 pounds (27kg)

Dimensions

96" x 48" x 7" (2.44m x 1.22m x 17.5cm)

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 stepping motor for true east-west tracking; returns to east at end of day

Mounting Provisions

Recessed lip on frame for standard fasteners

SUNTRAC SOLAR PANEL FEATURES

- Internal manifold is for side-by-side or end-to-end mounting.
- Tracker and brushless stepping motor are servicable through motor cover.
- Tracks daily east to west and may be used north to south to track seasonally.
- Tracking can be turned off/on to eliminate stagnation conditions and control high temperature limit.
- Designed for 30 year life
- Low Voltage for Safety
- Panels are self-contained eliminating complicated field installation.

Manufactured in the United States by



PO Box 473639
Charlotte, NC 28247

PATENTED