

# SunMate™

## Hot Air Solar Heating Collector

The **SunMate Hot Air Solar Heating Collector** is the ideal choice for homeowners who want low-cost alternative heat source and want to be environmentally friendly. Our solar collectors allow you to enjoy **FREE HEAT** from the sun without any adverse effects on the environment! The SunMate pulls cool air from your home, channels it through the absorber plate where it's heated by energy from the sun, then circulates hot air back into your home. A built-in thermostat automatically turns on a blower when the absorber plate reaches 110° F and shuts off the blower at 90° F.

The SunMate has been tested by an accredited laboratory to be **one of the most efficient, glazed, solar hot air panel certified by the SRCC** (Solar Rating and Certification Corporation).



What sets the SunMate apart from other solar collectors, is the design. The one-piece construction produces a streamlined appearance that doesn't detract from your home's appearance. Heavy-duty aluminum components result in quality construction that assures long life and no maintenance.



The SunMate is efficient and affordable. A single collector heats up to 750 square feet. Double-sealed solar glass eliminates air infiltration and water leaks. Polyisocyanurate insulation results in extremely low heat loss and an energy fan operates for just pennies per day.

The SunMate is installed vertically and mounted on the south side wall or roof of your home or building. The design accommodates 2" x 4" or 2" x 6" construction. Parallel installation allows you to integrate multiple collectors for big heating jobs.



### Features:

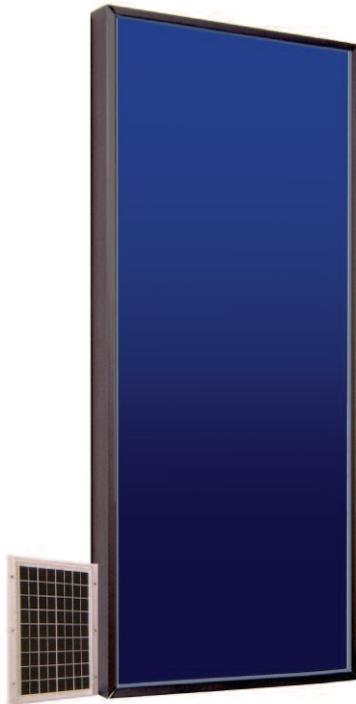
- Highest efficiency and extremely reliable
- One-piece streamlined design for an architectural and aesthetically pleasing look
- Ultra-clear, low-iron glass has excellent transmittance properties: – 91.5%
- Heavy-duty frame, results in one of the strongest frames in the industry
- Unique, high-performance absorber design adds one-third more surface area, which results in an uniform air-flow and increase of efficiency as compared to flat-plate absorbers
- Heavy duty high temperature silicone seal
- Moisture Guard™ (patent pending)

**SunMate now uses TiNOX, a highly selective absorber coating. A selective coating is the heart of all solar thermal collectors. TiNOX has high absorption (95%) and low emissivity (5%). TiNOX can convert 90% of all solar radiation into heat. TiNOX is also an environmentally friendly coating.**

RATING / DAY	SRCC-0G100	GLAZING	Low Iron Tempered Glass
BTU	25.051 BTU / Day (single Collector)	ABSORBER COATING	TiNOX
DIMENSIONS	86 lbs. (Single Collector)	INSULATION	Polyisocyanurate R 6.5
COLOR	Dark Bronze	AIR FLOW RATE	80-640 CFM
TYPE	Solar Hot Air Collector	TEMPERATURE CONTROL	Thermostat
FRAME	Extruded Aluminum	CO2 REDUCTION	.37 to 3 Tones per year
SEAL	High Temperature Silicone +500 F.	MOUNTING	Wall or Roof
ABSORBER	Corrugated Aluminum	FAN PAN MOTOR	AC or DC Ball Bearings
		WARRANTY	Collector Ten (10) years Electronics One (1) year
		MANUFACTURED IN	U.S. A.
		MANUFACTURER	Environmental Solar Systems, Inc.

**FREE HEAT. GREENER CHOICE. FEEL GOOD.**

# SunMate™ - The Hot Air Solar Heating Collector



## SunMate

### Product Description

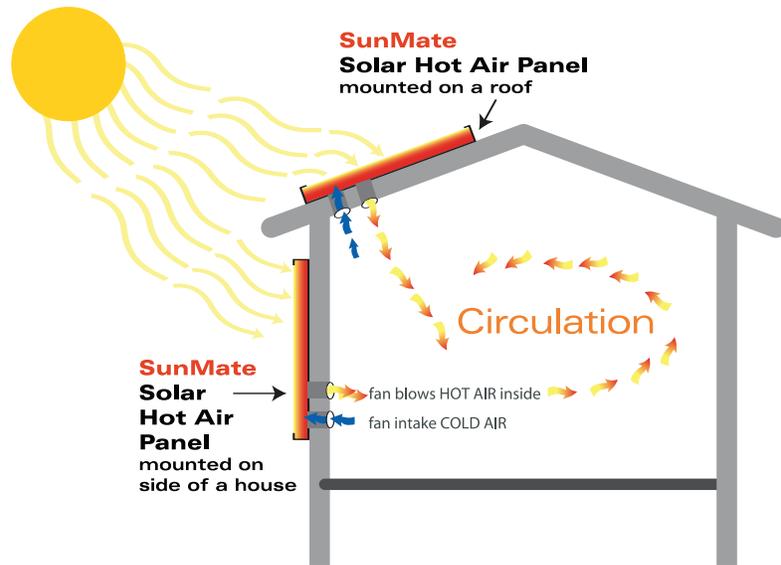
The SunMate Collectors use solar energy captured through the glass, to heat the collector's absorber plate. Air is blown past the hot absorber plate to heat your building. Each Collector can heat a room up to 750 sq. ft. (depending on building heat loss and the day's sunshine.)

**Available option:** P.V. Solar Module to power the fan.

### Tax Credits

Qualifies approximately 30% Federal and other State - Tax Credits

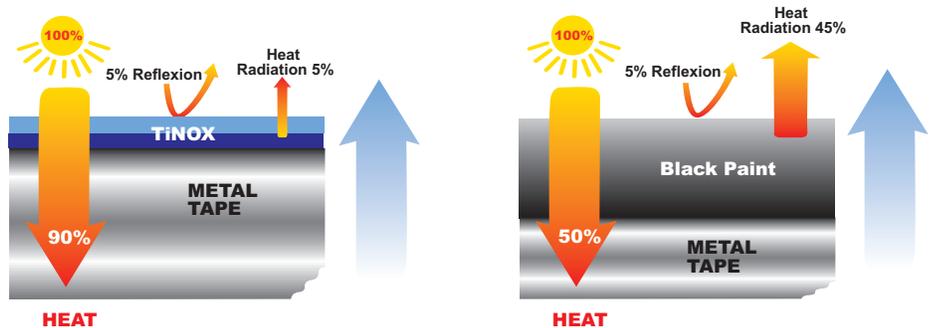
## How It Works



The SunMate pulls cool air from your building, channels it through the absorber plate where it's heated by energy from the sun, then circulates hot air back into your building. A built-in thermostat automatically turns on a blower when the absorber plate reaches 110° F and shuts off the blower at 90° F.

## TiNOX Comparison of different absorber coatings

By TiNOX



## TESTIMONIALS

"Regarding my Sunmate Solar Collectors. When installed at the end of February they immediately heated up the inside glass (a good sign) on a clear day without even the fan running. The following week I did get everything installed and the 2 collectors in series with my fan produced approximately 12,390 BTU/hr. at a 64 degree differential temperature! It was truly amazing! I had an inlet temperature of 40 degrees and an outlet temperature of 104 degrees. I expect to get almost 15,000 BTU/hr at winter solstice and they have truly exceeded my highest expectations. Thank you so much for your help!" — Michael Koons

"My SunMate solar heating system works great, I have easily halved my fuel bills with a clean, quiet, reliably system. I was surprised at how the system kept the house warm all day long even on the coldest days." — John Hatch, MA

	<p>This product certified by the Solar Rating and Certification Corporation                  c/o FSEC, 1679 Clearlake Road                  Cocoa, FL 32922                  (321) 638-1537                  www.solar-rating.org                  SRCC Document OG-100</p>	<p>ENVIRONMENTAL SOLAR SYSTEMS, INC.                  117 West Street                  Methuen, MA 01844</p> <p>Model No. : SM-14                  Gross Area: 1.74m<sup>2</sup> (18.75 ft<sup>2</sup>)                  Serial Number:</p>	<p>Mildly Cloudy Day Rating in Category C</p> <p>10 MJ/day                  10Mbtu/day</p>
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Your SunMate Dealer: