

SunMate

Hot Air Solar Heating System

BY ENVIRONMENTAL SOLAR SYSTEMS, INC.



The SunMate Hot Air Solar Panel by Environmental Solar Systems, inc is the ideal choice for homeowners who want environmentally friendly and low-cost alternative heat. Our solar panels allow you to enjoy **FREE** energy 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 panels certified by the SRCC** (Solar Rating and Certification Corporation).



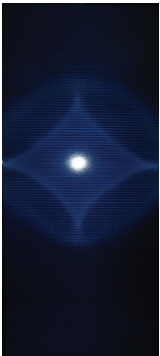
What sets the SunMate apart from other solar panels is the design. One-piece construction produces a streamlined appearance that doesn't detract

from your home's appearance. Heavy-duty aluminum components result in quality construction that assures long life and no maintenance.

The SunMate by Environmental Solar System is efficient and affordable. A single panel heats up to 700 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 of your home or building. The design accommodates 2" x 4" or 2" x 6" construction. Parallel

installation allows you to integrate multiple panels for big heating jobs.



Features:

- High efficiency and reliability
- Easy to install: wide variety of simple installations
- Can be used for fresh air intake for tight houses
- Brushless 100 CFM, 12VDC - 8.5 watt fan
- Automatic thermostat automatically turns the fan on & off
- P.V. module option to power the fan
- 10-Year Warranty on Solar Panel, one year warranty on electronic components.

Tested by an Independent Test Laboratory

- Energy Output 5.56 kw/day - 19,000 BTU (Ti-Ta) 9°F
- **OG-100 SRCC Collector Certified**

TAX CREDITS: Qualifies for the 30% Federal and many other State Tax Credits

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.

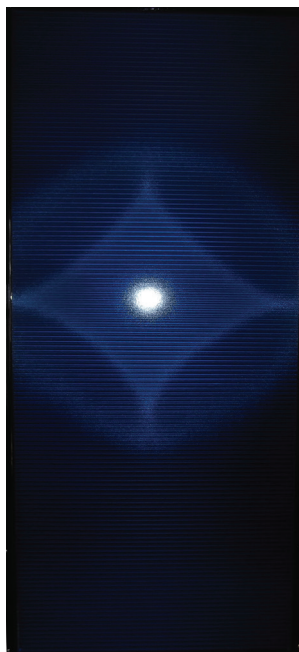
RATING / DAY:	SRCC-0G100	ABSORBER COATING:	TiNOX
BTU:	Clear Day 22,000 BTU / Day (single panel)	INSULATION:	Polyisocyanurate R 6.5
DIMENSIONS:	86 lbs (Single Collector)	AIR FLOW RATE:	100 CFM
COLOR:	BLACK	TEMPERATURE CONTROL:	Thermostat
TYPE:	Solar Hot Air Collector	MOUNTING:	Wall
FRAME:	Aluminum	FAN PAN MOTOR:	DC Ball Bearings
SEAL:	Silicone	WARRANTY:	Collector Ten (10) years One (1) year for Electronic Components
ABSORBER:	Corrugated Aluminum	MANUFACTURED IN:	U.S. A.
GLAZING:	Low Iron Glass/Anti-Reflection Coating	MANUFACTURER:	Environmental Solar Systems, Inc.

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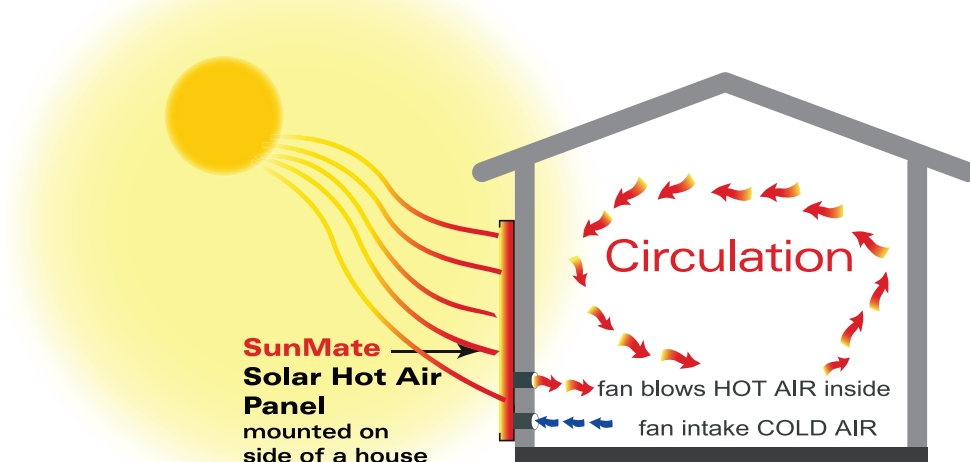
SunMate Product Description

The SunMate SM-14 uses 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 700 sq. ft. (depending on building heat loss and the day's sunshine.)

Tax Credits

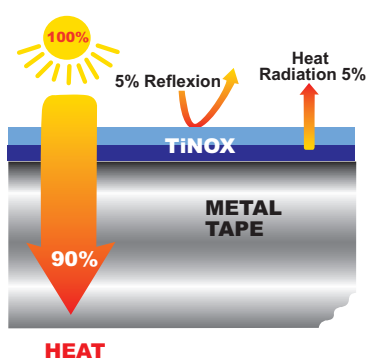
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How Does SunMate Work?

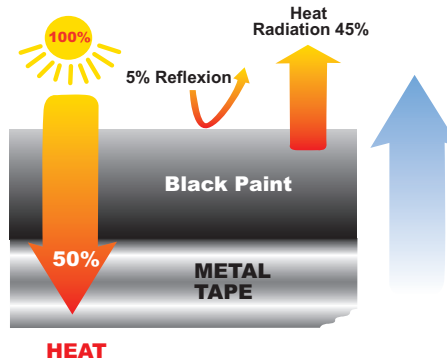


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TiNOX Comparison of different absorber coatings



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 Solar Heating system works great, I have easily halved my fuel bills with a clean, quiet, reliable 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: 1.74m² (18.75 ft²) Serial Number:</p>	<p>Mildly Cloudy Day Rating in Category C</p> <p>10 MJ/day 10Mbtu/day</p>
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