

DESCRIPTION:

The SunSaver ST™ Solar Collector is manufactured in Chico, California. The collector is a specially developed, highly stabilized polyolefin and is of parallel, circular channel design. It is unglazed, un-insulated, and designed for low temperature applications such as swimming pool heating, heat pumps, aquaculture, hydroponics, and pre-heating.

DIMENSIONS:

	Collector Model Number		
	4 x 8, 2 x 8	4 x 10, 2 x 10	4 x 12, 2 x 12
Header Width	50-7/8", 26-7/8" (±1/8")	50-7/8", 26-7/8" (±1/8")	50-7/8", 26-7/8" (±1/8")
	1.29m, 0.68m (±3.2mm)	1.29m, 0.68m (±3.23mm)	1.29m, 0.68m (±3.23mm)
Panel Body Width	48", 24" (+1/4" - 0")	48", 24" (+1/4" - 0")	48", 24" (+1/4" - 0")
	1.22m, 0.61m (±6.4mm)	1.22m, 0.61m (±6.4mm)	1.22m, 0.61m (±6.4mm)
Overall Length	96" (±1/8")	120" (±1/8")	144" (±1/8")
	2.44m (±3.2mm)	3.05m (±3.2mm)	2.66m (±3.2mm)
Effective Area	32ft ² , 16ft ²	40ft ² , 20ft ²	48ft ² , 24ft ²
	2.97m ² , 1.47m ²	3.72m ² , 1.86m ²	4.46m ² , 2.23m ²
Weight (w/o fluid)	12.2lbs, 6.1lbs	14.3lbs, 7.2lbs	16.5lbs, 8.3lbs
	5.53kg, 2.77kg	6.49kg, 3.26kg	7.48kg, 3.76kg
Fluid Capacity	4.0gal, 2.0gal	4.7gal, 2.4gal	5.4gal, 2.7gal
	15.1L, 7.6L	17.8L, 9.1L	20.4L, 10.2L
Weight (w/ water)	46.0lbs, 23.0lbs	53.8lbs, 26.9lbs	61.7lbs, 30.8lbs
	20.8kg, 10.4kg	24.4kg, 12.2kg	28.0kg, 14.0kg

ROOF MOUNTING SPACE: Width = [Number of panels X 50-7/8" (1.29m)] + 24" (0.61m)
Length = Panel length + 24" (0.61m)

RACK SPACE: Width = [Number of panels X 50-7/8" (1.29m)] + 2" (0.05m)
Length = Panel length + 6" (0.15m)

FLOW: Maximum recommended flow = 0.20 gpm per ft² panel area (488 L/hr per m²)
3.47 psi head loss (23.9 kPa)
Minimum recommended flow = 0.05 gpm per ft² panel area (122 L/hr per m²)
0.23 psi head loss (1.6 kPa)
Recommended flow = 0.10 gpm per ft² panel area (244 L/hr per m²)
0.87 psi head loss (6.0 kPa)

PRESSURE:	NORMAL OPERATING PRESSURE	MAXIMUM INTERMITTENT PRESSURE
	80°F (27°C)	0 to 30 psi (0 - 207 kPa)
212°F (100°C)	0 to 5 psi (0 - 34 kPa)	5 psi (34 kPa)
70°F (21°C)	Measured burst pressure of panel body = Over 300 psi (2069 kPa)	

TEMPERATURE: Normal operating temperature = 60°F to 90°F (16°C to 32°C)
Maximum continuous operating temperature = 212°F (100°C)
Maximum intermittent temperature (un-pressurized) = 250°F (121°C)
Melt temperature = 338°F (170°C)

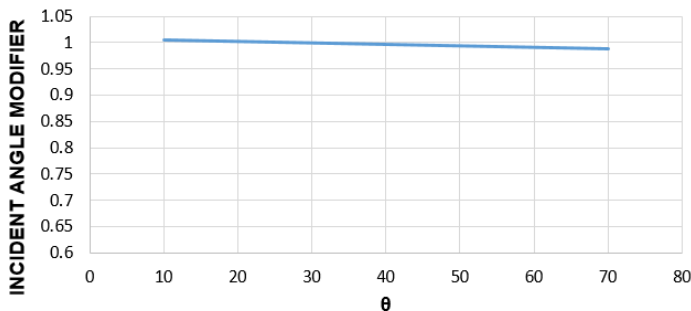
SunSaverST™

Solar Pool Heating Collector Specifications

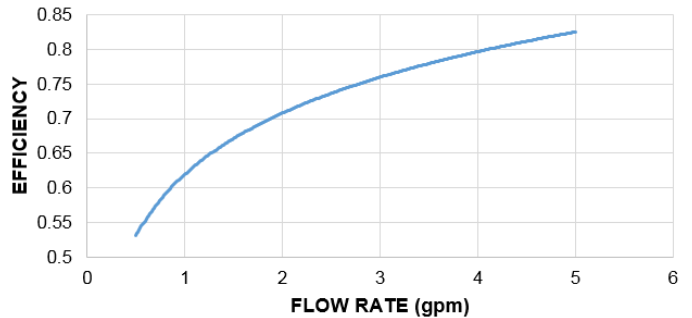
- CHEMICAL RESISTANCE:** Compatible with common collector fluids such as chlorinated or saline pool water.
- CORROSION:** Non-corrosive
- FREEZING:** The system should be drained before freezing conditions occur.
- WEATHERABILITY:** Weatherometer, accelerated outdoor exposure, and other extensive laboratory testing demonstrates long-term weatherability of SunSaverST™ collectors (see warranty). Additionally, FAFCO's experience of 40+ years and over 2,000,000 collectors installed confirms that the proprietary stabilization and high mechanical strength results in negligible issues over the warranty period.
- ABSORPTIVITY:** 0.96
- EMISSIVITY:** 0.90
- TIME CONSTANT:** 105 seconds
- TESTED OUTPUT:** 1,900 Btu/ft²-day (5.9 kWh/m²-day) (Per SRCC OG100 Certification # 10001773)

PERFORMANCE GRAPHS:

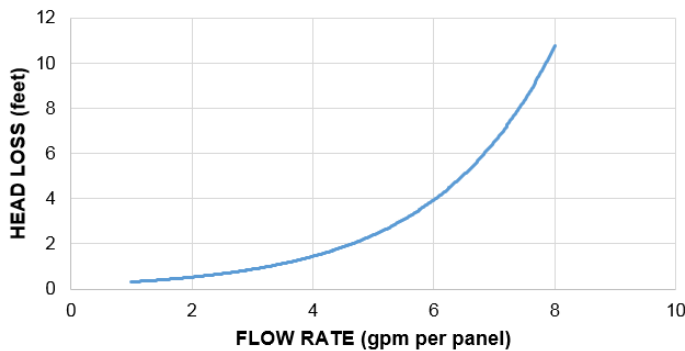
INCIDENT ANGLE CHARACTERISTICS



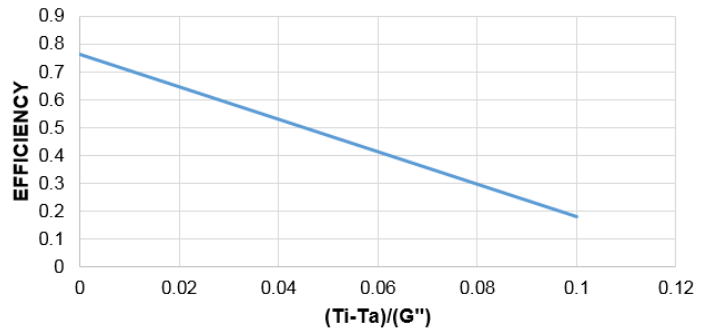
EFFICIENCY vs. FLOW
(for typical conditions)



PRESSURE VS. FLOW



MEASURED EFFICIENCY
(5 gpm flow rate, 3mph wind speed)



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