

SunSaver ST™

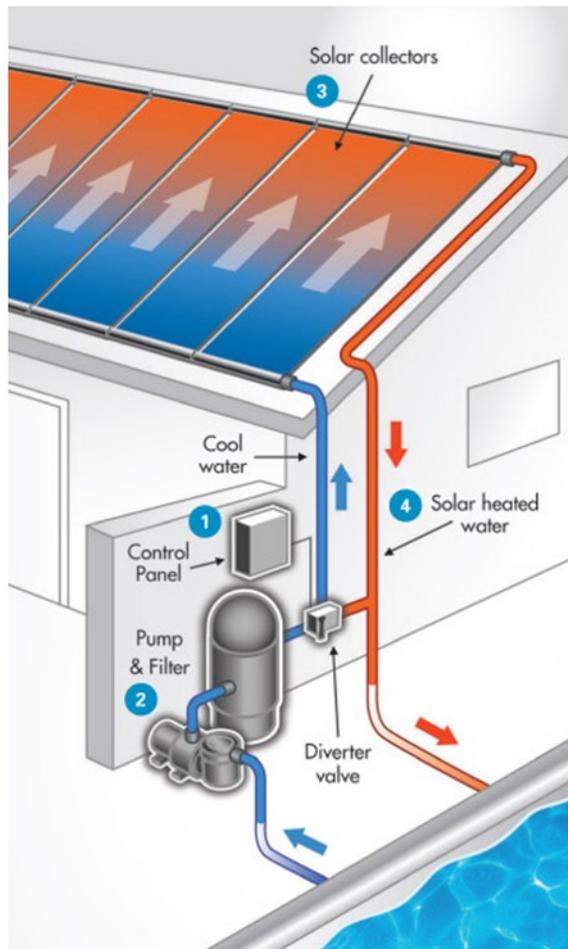
Solar Pool Heating System



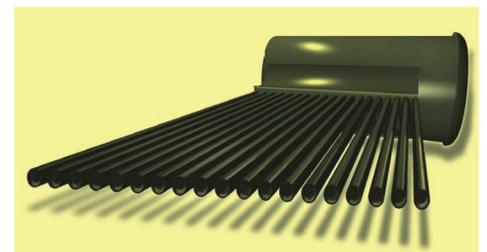
- Industry best warranty
- Revolutionary technology mixes the water in a spiral motion
- Water evenly and efficiently moves through the header
- More tubes than competitor panels
- Dramatically reduces or eliminates pool heating costs
- Adds value to your pool and to your home
- Heats your pool to a warm, comfortable temperature with environment friendly energy, free from the sun

How It Works

FAFCO's 40 years of innovation and patented technology have made it easy to heat your pool with solar energy. Cold water is pumped from your pool through our patented solar collector design. Like a garden hose lying in the sun, the collector heats the water inside, which is then pumped back into your pool giving you luxuriously warm water and a significantly longer swim season.



1. Set your desired water temperature and a sensor determines the most efficient run time.
2. Your pool pump sends cold water from the pool through the solar collectors
3. FAFCO's polymer solar collectors heat the water as it is channeled through the collector array
4. Luxuriously warm, solar heated water flows back into your pool



SunSaver ST™

Solar Pool Heating System

DESCRIPTION:

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

DIMENSIONS:

Header Length = 50.875 in. (1.29 m)
Width (Panel body) = 47.5 in. (1.21 m)

<u>Overall Dimentions</u>	<u>Effective Area</u>
4 ft. X 8 ft. (1.22 X 2.44 m)	30.8 ft ² (2.86 m ²)
4 ft. X 10 ft. (1.22 X 3.05 m)	38.8 ft ² (3.60 m ²)
4 ft. X 12 ft. (1.22 X 3.66 m)	46.6 ft ² (4.33 m ²)

ROOF MOUNTING SPACE:

Width = [Number of panels X 50.875 in. (129 cm)] + 24 in. (61 cm)
Length = Panel length + 24 in. (61 cm)

RACK SPACE:

Width = [Number of panels X 50.875 in. (129 cm)]+ 2 in. (5 cm)
Length = Panel length + 6 in. (15 cm)

FLOW:

Maximum recommended flow = 8 gpm per panel
3.47 psi head loss (1,817 l/hr, 0.244 kg/cm²)
Minimum recommended flow = 2 gpm per panel
0.23 psi head loss (454 l/hr, 0.016 kg/cm²)
Recommended flow = 4 gpm per panel
0.87 psi head loss (908 l/hr, 0.061 kg/cm²)

PANELS PER BANK: (maximum)

12 panels single end feed
17 panels diagonal feed

PRESSURE:

	NORMAL OPERATING PRESSURE	MAXIMUM INTERMITTENT PRESSURE
80°F (27°C)	0 to 30 psi (0 - 2.2 kg/cm ²)	45 psi (3.21 kg/cm ²)
212°F (100°C)	0 to 5 psi (0 - 0.35 kg/cm ²)	5 psi (0.35 kg/cm ²)

70°F (21°C)

Measured burst pressure of panel body = Over 300 psi (21.0 kg/cm²)

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 (unpressured) = 250°F (121°C)
Melt temperature = 338°F (170°C)

WEATHERABILITY:

Weatherometer, accelerated outdoor exposure, and other extensive laboratory testing demonstrates long-term weatherability of SunSaverST™ collectors (see warranty). Additionally, FAFCO's experience of over 30 years and over 1,000,000 collectors installed confirms that the proprietary stabilization and high mechanical strength results in negligible warranty over the twelve-year warranty period.

WEIGHT:

Without Water:		
4 ft. X 8 ft.	12.2 lbs (4.54 kg) or 0.38 lbs/ft ² (1.85 kg/m ²)	
4 ft. X 10 ft.	14.3 lbs (5.34 kg) or 0.36 lbs/ft ² (1.76 kg/m ²)	
4 ft. X 12 ft.	16.47 lbs (6.15 kg) or 0.34 lbs/ft ² (1.67 kg/m ²)	
With Water:		
4 ft. X 8 ft.	46 lbs (17.2 kg) or 1.44 lbs/ft ² (7.03 kg/m ²)	
4 ft. X 10 ft.	53.8 lbs (20.1kg) or 1.35 lbs/ft ² (6.59 kg/m ²)	
4 ft. X 12 ft.	61.7 lbs (23.07 kg) or 1.29 lbs/ft ² (6.28 kg/m ²)	