

# Features

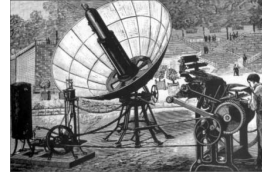
- Requires little or no maintenance
- Built with industrial strength controls
- Extremely reliable
- Built-in safety features
- Operates efficiently all year long
- Does not suffer from heat stagnation, a problem common to most all other solar heating products
- Utilizes a programmable logic controller developed for industrial settings where reliability and durability cannot be compromised. These robust computation devices last decades and are usually only replaced for upgrades
- Dual-axis sun tracking maintains high efficiency throughout the day.



# History

Knowledge of concentrating solar collectors has been around for hundreds of years.

They have long been considered the best way to harness the sun's energy, but have not been utilized because of impractical tracking requirements and the discovery of fossil fuels. Solar experts agree that this technology is on hold for the future but look forward to a time when the right tracking technology would make them practical and efficient. Guess what? The future is here! The Solartron SolarBeam Concentrator has arrived and can fill your needs for practical and efficient solar energy. We look forward to helping you see the financial and environmental benefits of the SolarBeam Concentrator.



Abel Pifre's solar powered printing press, circa 1882



Authorized dealer and installer of  
SolarTron Energy Systems Inc.  
SolarBeam Concentrator

ARC Solar Solutions LLC  
**715-695-3791**

[www.arcsolarsolutions.com](http://www.arcsolarsolutions.com)  
Strum, WI 54770

# SolarBeam Concentrator

Water  
heating  
and  
space  
heating  
system





## Description

The SolarBeam Concentrator is the most efficient solar water heating and space heating system of its kind. The SolarBeam Concentrator generates an average of 10.5 KW of heat per hour (35,851 BTUs/hour) and can reduce payback from 20 years to six years or less compared to other technologies. This can be reduced even further with rebates. The SolarBeam is a state-of-the-art solar hot water and space heating system that is built to withstand the most extreme weather conditions. This makes for a quick return of investment followed by unprecedented savings for years to come. It also results in reducing reliance on fossil and other fuels for energy needs and their inevitable rising costs. The SolarBeam is the first parabolic solar dish to be certified by the SRCC, KeyMark (Europe), and Global Mark C (Australia).

## Application

Principally a solar space heating and water heating system, the SolarBeam will fit many applications which include industrial/commercial, agricultural, and residential uses. This includes car washes, bottling plants, food processing, agricultural use, swimming pool heating, de-icing, and more. Essentially, the SolarBeam is suited for any process where space heating or hot water is needed. SolarBeam can provide, or offset, huge amounts of your energy consumption. The SolarBeam can easily be integrated with your existing system to reduce installation costs.\*

Multiple units can be installed when more energy is needed. In this example, two SolarBeams are providing hot water for night time sterilization of this beverage facility.

In applications where steam is required, SolarBeam will raise water temperatures to just below boiling, then deliver the pre-heated water to your existing heating system. This drastically reduces energy costs.

SolarBeam is principally a space heating and water heating system. However, the SolarBeam in conjunction with an absorption chiller can provide air conditioning and refrigeration, typically in commercial/industrial applications.

## How it works

SolarBeam utilizes a highly reflective parabolic dish made of high strength anodized aluminum with a transparent protective coating. The unit utilizes a dual axis tracking system which tracks the sun precisely throughout the year. The SolarBeam

concentrates the sun's energy onto an energy efficient heat exchanger wherein fluid is heated and piped to your home or business.

**SolarBeam  
Concentrator  
has a payback  
of 6 years or  
less**

The patent pending computer controlled tracking system tracks the sun from sunrise to sunset which maximizes energy output, rather than simply relying on midday sun.

The system works year round in all climates.



*\*As with all solar power heating systems, backup heating is necessary. However, energy can be collected even on partly cloudy days. Additionally, heat is stored in an insulated storage tank for cloudy days and night use.*

