

# Solar Thermal

## 10HP Solar Steam Generator

The **Solar Thermal Steam Generator** operates at 300°F and will produce 300 –pounds of 250°F—15PSI steam per hour.

The 10HP Solar Steam Generator will displace the steam generated by your fossil fueled boiler during the daylight hours.

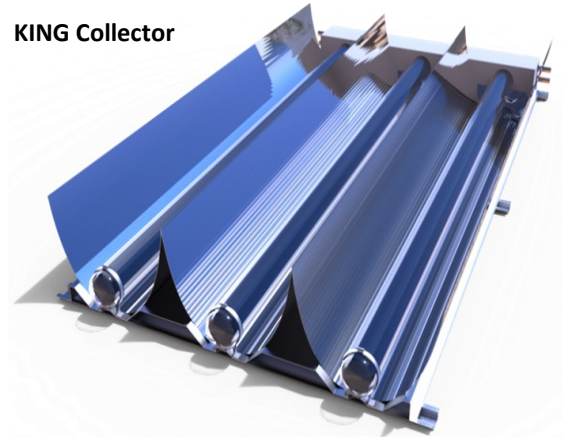
The Solar Steam generator is installed into the central steam line of the facility parallel to the existing boiler. The **Solar Steam Generator** maintains the pressure in the central steam line allowing the existing boiler to remain idle until the pressure drops in the central steam line and more steam is called for by the process.

The **Solar Steam Generator** boiler will significantly reduce fuel consumption and reduce the operational time of existing boilers. The system is very easy to install in new or existing facilities.

Unlike standard solar systems, the KING collects both direct and indirect sunlight, allowing for usage across the globe. No moving parts and the simple system design has minimal O&M costs. Our low-profile roof or ground-mounted systems are robust and light weight.

Using our technology, industries as diverse as manufacturing, food processing (e.g., meat, dairy, processed food and beverages), municipal waste water and oil & gas extraction.

KING Collector



The **10HP Solar Steam Generator** is a reliable low cost solution for the Brewery & Distillery industries and has very favorable Return On Investment. (ROI)

Will reduce energy consumption by approximately:

**Natural Gas** = 5-Therms/hour

**LPG** = 5.5-gallons/hour

**Oil** = 3.2 -gallons/hour

**Electricity** = 115 kWh/hour

### Benefits

- 10HP for 300 pounds of steam per hour
- 250°F—15PSI Steam - 360,000 BTU/hour
- 69– XCPC High Temperature Collectors
- 184 m<sup>2</sup> or 2006 ft<sup>2</sup> of collector area
- 26% federal tax credit including all components materials and installation labor (USA)\*
- Non-tracking lowers O&M costs
- Collects both direct and indirect sunlight

### Savings & Green House Gas Reductions Example: 105KW System (69 XCPC's)

**Natural Gas** = 14,126 therms saved /yr  
174,000 lbs. of CO<sub>2</sub> and 220 lbs. No<sub>x</sub>

**Electric** = 322,000 kWh saved per year  
410,000 of CO<sub>2</sub> and 1,498 lbs. No<sub>x</sub>

**HIGHEST REDUCTIONS PER m<sup>2</sup> or ft<sup>2</sup> OF ANY SOLAR TEHCNOLOGY ON THE MARKET!**