



The Cool Side of Solar Thermal

Solar Thermal Evaporation & Desalination

Clean Water/Desalination - this \$18 billion (worldwide) market is growing at a rate of 55% annually, yet much of the industry is still exclusively dependent on natural gas.¹

Artic Solar's ultra-high efficiency KING Collector generating temperatures in excess of 400°F when used with natural gas backup, it provides the lowest cost of energy available today as well as a substantial reduction in green house gas emissions (see chart below).

Our advanced system combined with a heat pump deliver a proven 49% reduction in thermal energy usage in a multi-effect distiller (MED) desalination system.²

Unlike standard solar systems, the KING collects both direct and indirect sunlight, allowing for usage across the globe. No moving parts and a dust-repellent coating mean minimal O&M costs. Our low-profile roof-mounted systems blend into any environment.

Complete project design, engineering services & financing available.

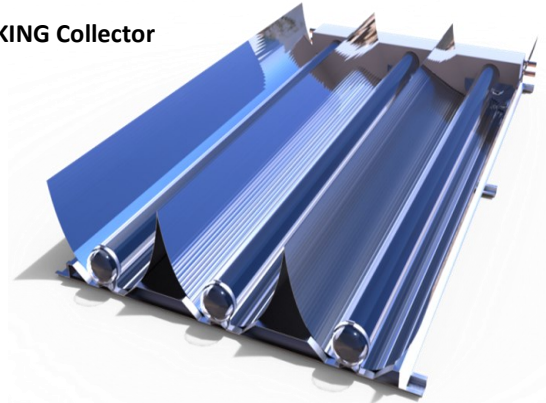
¹ International Desalination Association Report: Technical Review and the Economics of Water Desalination 2013

² Pilot Demonstration of Concentrated Solar-powered Desalination, Stuber, et al. in Desalination 2015



Multi-Effect Distillation

KING Collector



Benefits

- ☞ Zero Liquid Discharge
- ☞ Increased efficiency of spray evaporation systems
- ☞ Provides Distillation or Evaporation
- ☞ 26% federal tax credit including all components materials and installation labor (USA)
- ☞ Non-tracking lowers O&M costs
- ☞ Collects both direct and diffused sunlight

Savings & Green House Gas Reductions

Example: 100Kw System (100 XCPC's)

Natural Gas = 14,800 Therms saved /yr

174,000 lbs. of CO₂ and 220 lbs. No_x

Electric = 300,000kWh saved per year

410,000 of CO₂ and 1,498 lbs. No_x

HIGHEST REDUCTIONS PER m² OF ANY SOLAR TECHNOLOGY ON THE MARKET!

CALL TODAY FOR A QUOTE



Oil & Gas Production water process
affluent or brine evaporation
Landfill leachate processing,
Municipal Waste Treatment
using Solar Thermal



U.S. Patent # 9,383,120 B1

Solar Thermal Concentrator Apparatus, System and Method

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