

UVAC2008

World's Most Advanced Solar Receiver



- Twenty years of proven reliability
- Maximum solar radiation absorption
- Minimal emissivity (heat loss)
- Patented radiation shield system
- Patented vacuum maintenance unit
- Suitable for automatic welding

Solel's UVAC 2008 solar receiver, the world's most technologically advanced heat-collecting element for parabolic troughs, offers solar field operators unrivalled electrical output and revenues.

With its unique selective and anti-reflective coatings, the UVAC 2008 maximizes heat absorption and keeps heat loss to an absolute minimum. Plus, Solel's patented vacuum maintenance unit prevents the "hot tube" phenomenon which is due to hydrogen permeation, ensuring that the UVAC 2008's performance will remain undiminished by high temperatures.



Leading the World in Solar Thermal Energy

Solel's UVAC 2008 solar receiver sits at the heart of the parabolic trough power plant. It absorbs the sun's energy and converts it into heat used to produce electricity.

As a result of Solel's revolutionary coating process, the UVAC 2008 achieves and maintains very high levels of thermal efficiency. For a typical 50 MW solar field, this difference translates into millions of euros of additional annual revenues. In addition, Solel's patented "Getter Bridge" provides operators with piece of mind from knowing that the UVAC 2008 will continue to perform without vacuum loss throughout its 30 year life.

The UVAC is the world's best-selling solar receiver, with over 100,000 successfully installed in the United States, Spain and Israel.



Technical Specifications

no	feature	specification (metric)	specification (english)
1	Length of receiver tube	4060 mm	160 inch
2	Weight	25 kg	55 Lb
3	Operating temp. range	Up to 400°C	760°F
4	Optical properties	alpha >0.96, epsilon <0.1 at 400°C	
5	Vacuum maintenance	designed for > 25 years	

Solel is the leader in solar thermal technology for clean electricity. Its solutions set the global standard for utility solar plants as well as high temperature collectors. With the continuous production of 354 MW of energy in the Mojave Desert, Solel parabolic trough technology reduces California's annual oil consumption by two million barrels. In addition, Solel provides key technology for solar power plants under construction in the U.S. and Spain.



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