

# Casso-Solar IR Drying & Curing

## Specialty Application

- ❑ Dry and cure solvent coatings on paper, film and foil.
- ❑ Dry and cure waterborne coatings on paper, film and foil.
- ❑ Cure 100% solids coatings.
- ❑ Dry and cure specialty adhesives.
- ❑ Control coating migration on/into porous substrates.
- ❑ Preheat for embossing, stretching and laminating.
- ❑ Preheat for nonwovens for calendaring and laminating.
- ❑ Selective drying for moisture profiling.

Casso-Solar offers a select variety of high efficiency infrared heaters from low to medium intensity to tubular quartz and wide area quartz panel heaters to high-intensity tubular quartz halogen heaters. Through careful evaluation of your product and process, the most applicable heater is chosen and tested with our product in a state-of-the-art, in-house laboratory to ensure compatibility and performance. In the laboratory, it's professionally designed into a compact system for installation in your processing equipment.

Not every electric infrared heater will be the proper choice for a given application. To avoid disappointing results, Casso-Solar selects the best heater based on product quality, efficiency and cost effectiveness.

Each of the infrared heaters offered have special characteristics making them suitable for particular applications. The Solar Infrared Type C is acclaimed to be the most efficient IR available to dry water, cure coatings and preheat plastic webs. Type C incorporates a unique flat quartz emitter plate that has the characteristics of being transparent to the infrared energy generated within the heater module, acting like a window to the product.

The Solar Unitube Heater is a medium wavelength, tubular quartz infrared with a built-in refractory, directing the energy to the product, thus eliminating the need for external reflectors and subsequent maintenance. The Solar Unitube Heater can be packed to provide watt densities up to 70 watts per sq. in. with rapid heat up and cool down due to their low mass. The quartz envelope, similar to the Type C heater, protects the internal emitter from ambient losses.

Other heaters include low mass, providing very fast on/off characteristics for specialty applications, and the wide area, low cost, low-medium intensity Type FB heaters with a quartz composite surface. Specially designed heater modules, including metal-surfaced models, are available.

Casso-Solar constructs your equipment for industrial environments. Structural steel tubing is utilized for main framing. All welds are ground smooth. Insulated panels are a full 3 in. thick and double walled with aluminumized steel to withstand both heat and prevent rust. All duct work is built to minimize static pressure losses with dampers for customer control. Blowers are sized to pro-

vide sufficient static pressure to accommodate the system's duct work and customer added stacks, while delivering the rated air volume.

## System Performance

- ❑ Dry and cure 30% solids solvent base pressure sensitive adhesive on release paper in 5 seconds, where previously a convection oven required 20 seconds.

- ❑ Cure 100% solids silicone coating on paper in 0.6 seconds, compared to 2 seconds with conventional equipment.

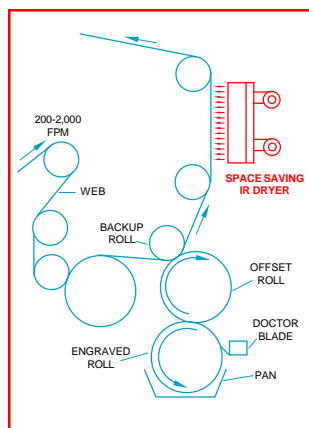
- ❑ Preheat vinyl for embossing in 0.5 seconds.

For full information and engineering consultation, contact Casso-Solar Corp. P.O. Box 163, 230 U.S. Route 202, Pomona, NY 10970; Tel 800-988-4455, Fax:845-362-1856. Email: sales@cassosolar.com, website: <http://www.cassosolar.com> ❑

we make  
hot ideas happen  
with infrared dryers.

From small ovens boosting production, to complete drying and curing systems - our high efficiency electric infrared heaters are the ultimate.

High intensity, up to 100 watts per square inch, for fast warmup and fast curing of high solids coatings or medium intensity infrared for drying and curing of solvent or waterbase coatings,



laminating and preheating. Profile control for wet streaks; computer control systems; compatibility with existing equipment.

Heater selection for your system is designed to maximize efficiency, ease of control and product quality, while minimizing floor space, power usage and maintenance.

Proven in many applications: Coatings on paper, film and foil; 100% solids or solvent release coatings, adhesives, specialty coatings, laminating embossing, non-wovens and more.

Let Casso-Solar, specialists in electric infrared equipment for over 35 years, meet and manufacture to your specifications. Complete state-of-the-art laboratory facilities to prove system performance. For full information, write or call today.



**CASSO-SOLAR**  
CORPORATION

ISO 9001 CERTIFIED



230 US Route 202, P.O. Box 163, Pomona, NY 10970  
(800) 988-4455 fax (845) 362-1856

e-mail: sales@cassosolar.com website: [www.cassosolar.com](http://www.cassosolar.com)