**V - SERIES  
FAST RESPONSE IR HEATER****INDUSTRIES & APPLICATIONS**

- DRYING & CURING SYSTEMS
- WEB & CONTINUOUS
- BELT, OVERHEAD & SPINDLE CONVEYORS

**FOR.....**

- Textiles drying, curing, laminating
- Paper, Film & Foil - drying, curing, laminating
- Electronics
- Medical
- Glass & Photovoltaic
- Carpeting & Wall Coverings
- Paint and Powder Preheat and cure
- Industrial Fabrics and Non-Wovens
- Printing - Paper & Film
- Automotive
- Annealing
- Continuous Coil Coating

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**W**ith new product and process technology under continuous development, production equipment is required to give precise and flexible control over production quality, while operating efficiently with minimum maintanence. With over 65 years of experience, Casso-Solar Technologies has been providing our customers 'the competitive edge'.

**V-SERIES - FAST RESPONSE - MEDIUM WAVELENGTH**

The V-Series is perfect for applications that require high power, fast heat-up/cool -down, preicise process control and uniform heating. The V-Series element is a stamped foil of a high temperature alloy that provides extended life.

The V-Series elements are continuously bonded to a high temperature insulating refractory board, which stablizes the element and insures uniform heating across the full element length. Hot spots are eliminated throughtout the life of the heater.

The V-Series provides many performance improvements over conventional stamped foil heaters which can develop hot and cold spots during operation. With the element mounted off the insulating refractory, more radiant energy is available for the process.

**SPECIAL FEATURES****EASE OF CONTROL**

Through the use of PLC or analog controls, with closed loop feed-back, product temperature can be maintained within  $\pm 2^{\circ}\text{F}$  across the web. A thermocouple is located behind the heating element, to accurately measure the emitter temperature of the heater. Power to the heater is provided through SCR power controllers for stepless output. Optical pyrometers further enhance the process control by measuring the product temperature.

**HEATER EMISSION MATCHED TO THE PRODUCT**

The Casso-Solar Technologies' V-Series Infrared Heater, has a tunable emission, to match the peak absorption point of the material being processed. Special multizone heaters can program a temperature profile into the product, if desired.

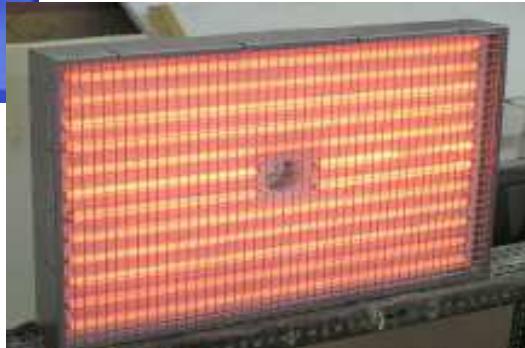
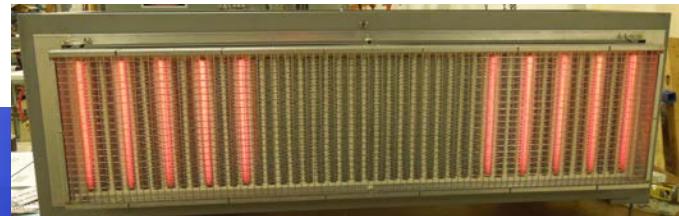
**ROBUST CONSTRUCTION**

With the element bonded to the insulated refractory face, no special handling or shipping is required. Case is constructed of heavy gauge alumized steel. Optional stainless steel screen protects the heater from a moving web.



**OPTIONAL FEATURES AND DESIGNS:**

- Stainless Steel Screen over Face
- Stainless Steel Housing
- Replaceable Type K Thermocouple
- Through Hole for Optical Pyrometer



- Air Holes for Extremely Rapid Cool Down
- Air Holes for Process Air
- Premount Fans
- Mult-Zone Configurations
- Integrated Exhaust
- Complete Systems with Controls

**SPECIFICATIONS**

**WATT DENSITIES:** Up to 100 watts per square inch, Typical 60 watts per square inch

**TIME TO TEMPERATURE:** Under 2 seconds

**VOLTAGES:** Up to 600 volts, 50/60 Hertz

**SIZES:** All heaters are built to order

**THICKNESS:** 3" standard without optional screen

**WEIGHT:** Average 8 Lbs. per square foot

**WAVELENGTH EMISSION:** 2.0-6.0 microns, peak adjustable by emitter temperature

**TEMPERATURE RANGE:** Up to 2100°F, recommended 1800°F

**ZONING:** Single modules or multiple modules can be zoned and wired to achieve specific profiles. Different width materials can be processed by turning off zones or modules, saving energy

**PARALLELOGRAM DESIGN:** Insures uniformity on product at module joints

**HEATER DISTANCE TO WORK:** Nominal 2-3" for maximum efficiency and uniformity

**ORIENTATION:** All directions - face up, face down, vertical and slope

**LIFE EXPECTANCY:** 12,000 hours and more, depending on configuration

**MAINTENANCE:** Keep clean

**HOUSING:** Heavy Gauge Aluminized Steel