

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

With 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 maintenance. With over fifty 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, precise 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 stabilizes the element and insures uniform heating across the full element length. Hot spots are eliminated throughout 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 feedback, 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 aluminized steel. Optional stainless steel screen protects the heater from a moving web.

Sales & Technical Information

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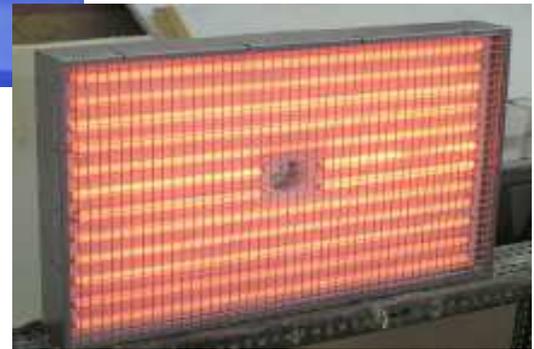


OPTIONAL FEATURES AND DESIGNS:

- 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 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