



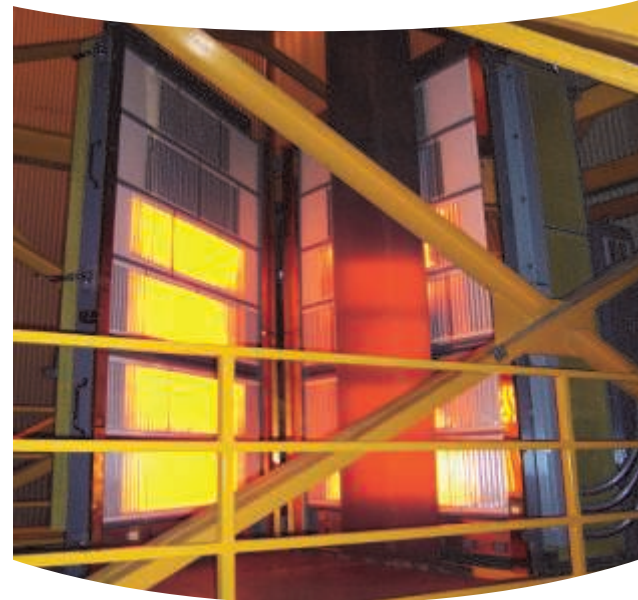
Wisconsin Infrared Systems

Unlike other infrared equipment manufacturers, Wisconsin Infrared Systems uses a wide variety of infrared technology to create equipment that performs above and beyond the competition.

Finding Solutions for Your Infrared Needs

With the flexibility to engineer our equipment using a wide-variety of infrared heaters, Wisconsin Infrared Systems offers the following equipment to meet your Infrared needs:

- Infrared Batch Ovens
- Infrared Conveyor Ovens
- Combination Infrared/Convection
- Web/Strip Dryers
- Infrared Seat Dewrinkling
- Custom Infrared Equipment & Systems



Industries & Applications

- Adhesives
- Aluminum Extrusions
- Annealing
- Appliance
- Automotive
- Batteries
- Blank Coating
- Building Materials
- Carpets
- Coatings
- Coated Fabrics
- Chem Coating
- Composites
- Curing
- Drying
- Lamination
- Electronics
- Fencing
- Fiberglass
- Film
- Filter Media & Filters
- Flexible Packaging
- Flooring
- Foil
- Furniture
- Glass
- Ink Jet Printer Dryers
- Heatsetting
- Heavy Machinery
- Industrial Fabrics
- MDF Board
- Medical Devices
- Metals
- Narrow Fabrics
- Nonwovens
- Paint Finishing
- Paper
- Plastics
- Platisol
- Powder Coating
- Preheating
- Printed Circuit Boards
- Printing
- PSA
- Screen Printing
- Shrink Tubing
- Silicone
- Textiles
- Thermoforming
- Thermal bonding
- Tubing
- Vinyl
- Wall Coverings
- Wire & Cable
- Yarn

WISCONSIN INFRARED SYSTEMS

2675 MAIN STREET, EAST TROY, WI 53120 USA • Phone: 262-642-4200 • Fax: 262-363-4018

www.wisinfraed.com • infrared@wisoven.com

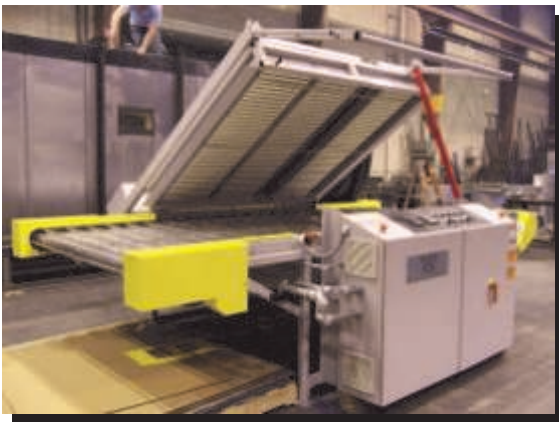
A Wisconsin Oven Corporation Company



INFRARED OVENS & EQUIPMENT

Infrared Batch Ovens

Wisconsin Infrared Systems manufactures infrared batch ovens in various styles, such as front load, top load, batch trolley, and batch indexing. IR heaters of all types, styles, and sizes can be added to these various oven configurations, based on the products being processed. They can be arranged to heat from the top, the bottom, sides, or any combination thereof, depending on your part configuration.



Infrared Conveyor Ovens

Infrared conveyor ovens can be manufactured in various styles, such as flat belt, spindle, chain-on-edge, overhead trolley and tow-line. Wisconsin Infrared Systems uses the most effective heater for each application. Infrared heaters available include gas catalytic, electric (short-wave and medium-wave), and combination infrared/convection. They can be arranged to heat from the top, the bottom, sides, or any combination thereof, depending on your part configuration. Infrared conveyor ovens heat parts quickly resulting in increased production rates and are designed to meet customer's specific process requirements.

Combination Infrared/Convection

Combination ovens combine the benefits of both convection and infrared heating into one heating chamber. Infrared/Convection ovens offer a variety of benefits which include faster cure times, increased production, decreased floor space, utility savings, and often times, a higher quality cure. Most commonly, infrared heaters are added to standard convection ovens as a means to provide a preheat or a "booster" affect to the heating process.

The combination of convection and IR can be used in any oven configuration, such as flat line conveyors, overhead trolley conveyors, spindle (chain-on-edge) conveyors, and any type of batch or walk-in type oven.





Web/Strip Dryers

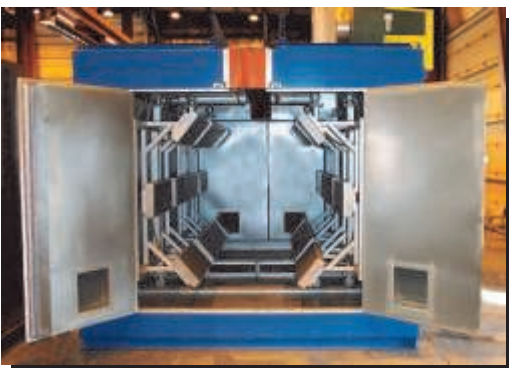
Wisconsin Infrared Systems manufactures web dryers and strip cure ovens, where steel, aluminum, plastic, paper, or other material is processed as a continuous web onto which a pretreatment, coating, or paint is applied. Web dryers utilize multiple zones of control for accurate temperature control under changing conditions. Each zone can be operated at different temperatures to provide optimum cure and maximize line speed. Our equipment is completely factory assembled and tested. We can supply solvent detection, electrical controls, fume incinerators, as well as a wide range of other optional items. We also can work closely with material handling suppliers of your choice for ease of installation.

Seat Dewrinkling Ovens

Seat manufacturers use infrared seat dewrinkling ovens to remove wrinkles from upholstery materials on automobile seats and other vehicles. In Wisconsin Infrared Systems' patented design, the heater configuration is contoured to the shape of the seat, as shown in the picture to the right. Medium-wavelength infrared heaters are preferred because they provide better heat penetration and use less energy than short-wave heaters. This design provides outstanding temperature uniformity throughout the entire seat. Seat manufacturers have appreciated the excellent performance of the Wisconsin Infrared Systems' Dewrinkling ovens.



Custom Infrared Systems & Equipment



If your project does not fall into one of the categories previously listed, Wisconsin Infrared can design and manufacture a custom piece of equipment for your application. Custom equipment can be classified into one of three main product types: batch, conveyor, & indexing-batch (which is a combination of batch and conveyor).

IR heaters of all types, styles, and sizes can be added to these various oven configurations, based on the products being processed. They can be arranged to heat from the top, bottom, sides, or any combination thereof, depending on your part configuration.



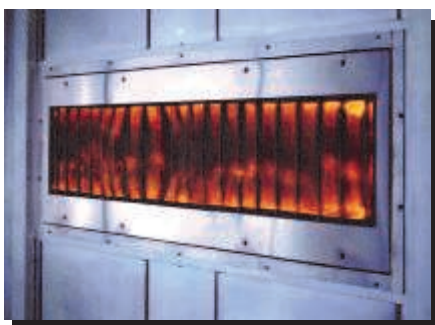
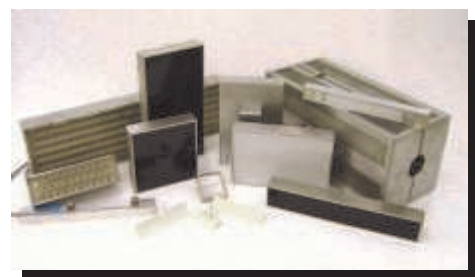
INFRARED HEATER TECHNOLOGY

Quartz Tube Heaters - Short & Medium-Wave

Short and medium wave Quartz Tube Heaters offer the advantage of achieving peak radiant output and full cool down within seconds. The low mass and translucent design of this type of infrared heater allows an infrared radiant efficiency of over 95%. Quartz tube heaters can direct virtually all infrared energy toward the object being heated, with minimal waste and eliminate the need for costly, heavy, inefficient secondary reflectors. Their increased efficiency allows for reduction in lamp output, extending lamp life. They can be grouped together for very high watt densities and designed with specific IR dispersion angles. Their snap-in design makes for quick and easy installation with no wire connections necessary.

Infrared Heater Panels

Infrared Panel heaters are durable for use in the harshest industrial environment. These panels are cost effective and also available in highly efficient designs. The infrared panel heater offers a tremendous amount of flexibility through a variety of shapes and sizes including rectangular, square, round, or C-shaped. Heat can be aimed in a single direction or in dual directions. Our special designs can help to avoid cold spots across wide web applications and require no external reflectors, resulting in consistently high radiant efficiency over time. Infrared panel heaters are used in most process heating applications and are the perfect heater for many infrared heating, drying, and curing applications.



SUNCAT™ Gas Catalytic Heaters

SunCat™ gas catalytic infrared heaters can be used in many configurations to cure a wide variety of parts, including solvent base, water base, and powder coatings on plastics, wood, wood composites, steel, sheet metal, aluminum and fiberglass. Gas catalytic infrared heater technology is a safe, cost effective means of curing. Our technologically advanced catalytic heaters in addition to our years of experience in building quality oven enclosures and controls, allows us to provide customers with catalytic infrared heaters for any curing need. The 1,700° F face temperature, combined with the convection air of our design, provides the fastest curing in the industry.

Why Use Infrared?

Infrared ovens can reduce cure times by as much as 75% over convection, require less floor space and increase production. Our state of the art testing facility uses gas and electric, short and medium-wave heaters, in both conveyor and batch configurations. We can also test with convection, or a combination of IR and convection. Highly experienced Wisconsin Infrared Systems' application engineers will select the right infrared technology for your application.



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