

Short Wave Infrared Curing Systems




spectrathek™

....Turn Up the Heat on quality, productivity and profits



The Spectratek curing system's heating units consist of a tungsten filament high-temperature, halogen-filled quartz lamp that is encased in an aluminum cassette head with a high precision thermal reflector

With the advent of regulations controlling paint product emissions, water-based and high solids paint products are becoming more and more commonly used in auto repairs. These new paints require longer drying times than traditional products . . . that is, using traditional curing methods.

The latest advance in curing technology, Short Wave Infrared (IR), is now available. Widely accepted in Europe, Short Wave IR and its unique benefits are fast becoming the industry standard worldwide.

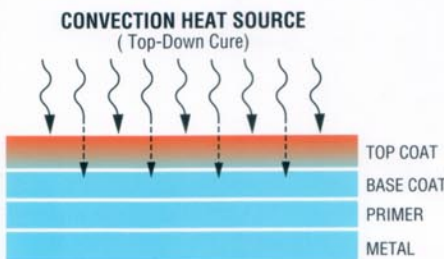
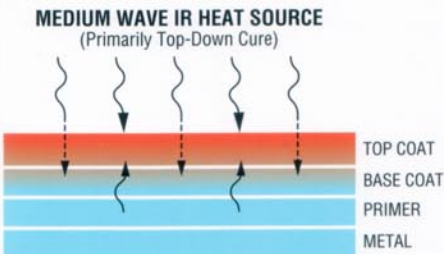
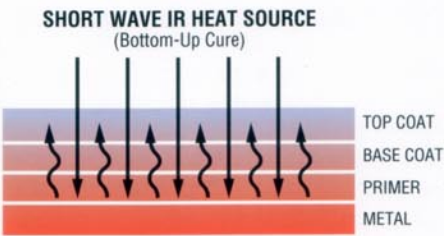
Features of a Short Wave IR curing system compared to conventional methods:

- reduces curing times of organic solvent based paint products
- reduces drying times of water-based products
- instant on/off — no warm-up or cool-down periods
- dramatically less expensive to operate with better results
- saves energy because drying can be focused on repaired area, not the entire vehicle

Short Wave IR - Technology of the Future, Today

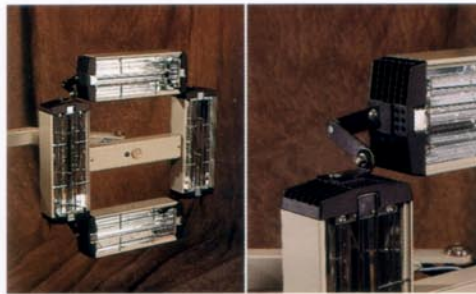
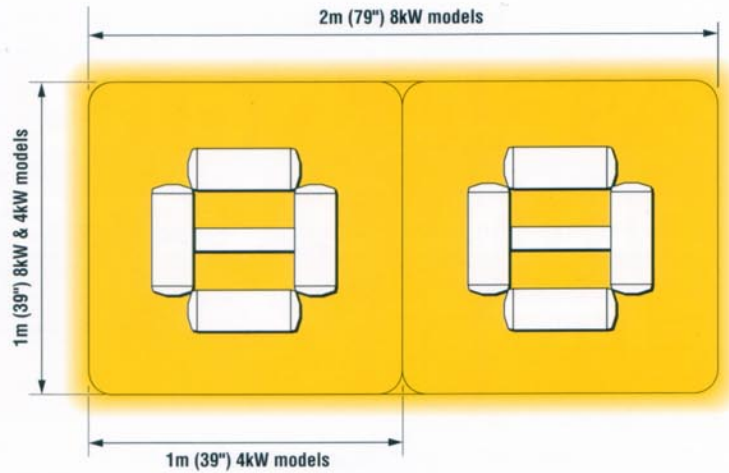
Short Wave IR is different from other curing methods in many ways. It dries and cures by penetrating through the wet coating and heating the layers underneath. A "bottom-up" cure is superior to the "top-down" process associated with other curing methods in that it produces a more thorough cure, and more heat can be applied without fear of skinning and solvent popping. Short Wave IR's higher heating temperatures reduce cure times and improve quality.

**spectratek™**



Efficient Lamp Units

The high-temperature halogen lamps, unique reflector and lamp array are all positioned for absolutely uniform heat distribution over the largest curing area. In addition, individual lamps can be angled to more closely match the curve of the vehicle.



*Thermal Integrated Sensor System

Spectratek's unique and state-of-the-art Thermal Integrated Sensor System (TISS) is available on the "S" series of Spectratek systems. TISS takes the guesswork out of some of the most critical aspects of proper curing.



- TISS first helps you position the curing unit for optimum heating with an ultrasonic sensor.
- This sensor beeps when the unit is too far away or too close, and then becomes a continuous tone when the unit is at the ideal distance from the vehicle.
- Secondly, the integrated timer allows you to preset ramp times.
- Thirdly, state of the art optical sensor and electronics regulate the heating temperature based on the panel temperature desired. The Spectratek system independently maintains a constant temperature thereby ensuring the highest quality finish even with a novice operator, without fear of over baking heat sensitive substrates.

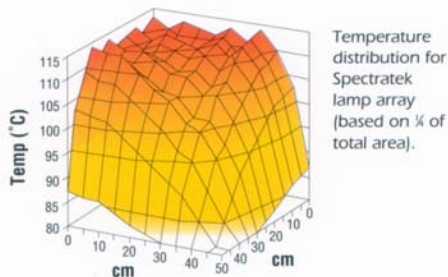
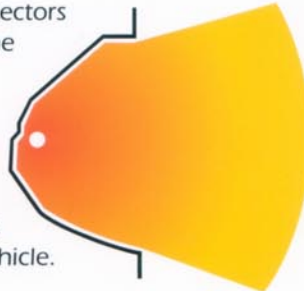
Spectratek Products Take the Next Step

Spectratek has taken the benefits of Short Wave IR technology and designed the most advanced curing system — with the highest value for the money.

Extensive research, development and attention to the smallest detail ensure that every component of a Spectratek curing unit is of the highest quality and

- optimizes the quality of the cure,
- speeds the drying time,
- saves energy, and
- provides the utmost safety.

The unique reflectors that envelop the lamps are specifically designed to direct all the energy from the lamps towards the vehicle.



Adjustable Power Levels

Unlike many units which only offer half-power and full-power options, Spectratek provides variable power settings. This flexibility helps ensure optimum baking of more sensitive materials such as some plastics, composite materials, fiberglass, and treated metals.



* Available with "S" models only

Features of a Spectratek Short Wave IR curing system:

- short, controlled curing times (Spectratek units cure a topcoat in about 7 minutes compared to 30-40 minutes for a convection oven)
- largest uniform cure area - no hot or cold spots
- lower purchase and running costs than other conventional methods
- full UL listing and CSA approval
- highest quality components
- compact, modular design
- designed and built in North America
- strong, stable, and rugged construction
- efficient on space
- easily moveable stand and effortless lamp unit adjustment, enable even the most inaccessible panels to be cured efficiently
- built-in safety features
- easy to use
- designed for a long life and covered by a comprehensive warranty
- robust, reliable electronics, designed for the harshest environment

Get the highest quality paint job in the least amount of time and with the least cost . . . while conforming to environmental regulations.

PAINT MATERIAL	TOTAL CURING TIME
Top Coat	7-10 minutes
Non-Sanding	2-7 minutes
Water-Thinnable Filler	7-9 minutes
Primer	3-8 minutes
Polyester Filler/Stopper	2-3 minutes

A Model to Suit Your Needs

Spectratek's Short Wave IR systems are designed to suit a wide range of applications. Spectratek offers the

- Spectratherm™ 4000 (4 kW 200V-240V)
- Spectratherm™ 4000S (4 kW 200V-240V)
- Spectratherm™ 8000 (8 kW 200V-240V)
- Spectratherm™ 8000S (8 kW 200V-240V)
- Other Models and electrical specifications available

Solid Backing by Experts in the Industry

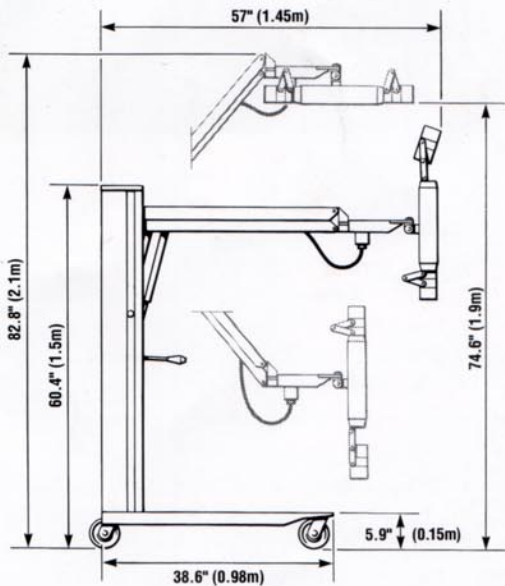
The founders of Spectratek have years of experience in the automotive paint field and a high technical level of expertise in Short Wave IR technology as it applies to the automotive industry.

Spectratek is committed to developing the highest quality products and invests in extensive research, development, and testing. Their ongoing research ensures that products will continue to be developed to most effectively meet the needs of auto body shops today and in the future.

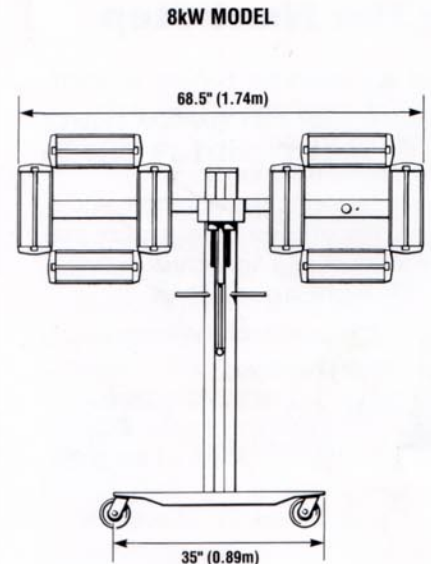
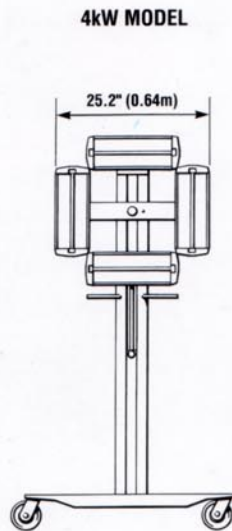
All Spectratek products are supported by fully qualified service and distribution facilities. Servicing can be conducted on-site to minimize down-time and cost.

Contact Spectratek today.

Due to our commitment to quality and service, design & specifications may change without notice.



Patents Pending



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