



BGK  
Pretreatment  
Drying Oven

## BGK<sup>™</sup> Electric Infrared Coil Pretreatment Drying and Coil Curing Oven Solutions

BGK is the Industry Leader and #1 Supplier of Infrared Coil Ovens in the World! Our oven systems are designed to meet and exceed all of your process requirements. Whether it is a new line or an existing line, a new operation or an expansion of your current operation, vertical or horizontal, we can fit an oven to your needs.

Efficient electric high-intensity infrared means short ovens that occupy minimal space. No power beyond what is necessary to perform the task is used. The heat is applied where and when and in the amount that is needed.

At the heart of our oven system is the shortwave infrared emitter, a robust tubular lamp that has a proven track record of industrial performance in durability and longevity. Installed in a BGK oven, backed with high density ceramic reflectors, our ovens provide “full-range wavelength” heating.

We know the curing cycles needed to satisfy all of the different coatings you may apply. We design the ovens with the configuration needed for your application. Separately adjustable heating zones, ramp and hold sections, supply and exhaust air handling, PLC control, all come together to provide the flexibility and adjustability to handle what you are running today and what you will run in the future.

Ovens are fully assembled and wired before shipping to make for quick installation and minimal line downtime. As your needs grow, our infrared ovens can be easily added onto to meet your increased production needs.

### FEATURES

- Systems engineered and manufactured for your specific application to deliver successful results
- Easy to install modular design; easy to operate, easy to maintain
- Full-range infrared energy
- Long-life infrared lamps provide an instant responding clean heat source, 0 to 100% control
- Separate heating zones put the heat where and when it is needed
- Oven cavity is fully lined with high density ceramic providing energy savings
- Heater reflectors are self-cleaning, no water cooling needed
- Operator interface provides easy to understand screens displaying system information and allowing touchscreen input for recipe selection
- Automatic power adjustment means that coil temperature remains constant even with changes in line speed
- Ovens are ready to run production when the line starts and will not overheat the coil on a line stop
- Made with the highest quality construction standards, the highest quality components, a system built to last



**BGK Curing Ovens**

### Pretreatment Drying Oven Features

- The fastest coil drying technology available for all types of pretreatment coatings
- BGK's proprietary design delivers results:
  - High intensity infrared rapidly raises product temperature
  - Recirculating hot air provides critical air movement, with air knives that blow-dry the coil surface
  - Moisture laden air is exhausted from the oven chamber completing the process
- Modular design is quick to install on new and existing lines
- Simple to operate and easy to maintain

#### Ideal for:

- Chrome Passivation
- Chromates
- Chrome-Free
- Zinc Phosphate
- Anti-Fingerprint
- Dry Film Lubricants
- Acrylics

### The brands you trust

Carlisle Fluid Technologies, a wholly-owned subsidiary of Carlisle Companies Incorporated, is dedicated to providing customers industry-leading solutions for the supply, control, application and curing of a wide range of paints, powders, sealants, adhesives and other application materials. From manual finishing equipment, to highly automated mass-production installations, the company solves customers' material application challenges through the combination of product innovation and decades of technical expertise. Focused on efficient, cost-effective global solutions for the transportation and other industrial markets, the company offers an expanding collection of pioneering product brands – BGK™, Binks®, DeVilbiss®, Hosco®, ms® and Ransburg®.



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### Prime and Finish Curing Ovens Features

- Energy efficient coil coating curing
- Deliver high quality, high durability finish and top coats
- Handles all coatings, on all substrates
- Self-cleaning oven interior
- Product recipes can be created and stored, making multiple production setups easy
- Coil temperature is always in precise control with four pyrometers in closed-loop operation with the infrared heaters
- Separate heating zones along the oven length provide ramp-step profiling
- Separate heating zones across the oven width save energy

#### Ideal for:

Polyesters	Urethanes
Siliconized Polyesters	Vinyl
Acrylics	PVDF
Epoxies	PVC (Plastisols)
Lacquer	Waterbase

### BGK Infrared Lab Oven

The ideal tool for testing your coatings in your own facility. With multiple modes of operation and recipe setup screens, it easily allows you to determine the optimum cure cycle for your process. The lab oven comes complete with a built-in PLC and interface screen, high intensity infrared heaters, supply and exhaust air blowers, automatic rapid test panel drawer, and optical closed-loop temperature control.



### Let's start a conversation

We want to work together to help answer your application challenges. To learn more about what we can offer, visit our website at [Carlisleleft.com](http://Carlisleleft.com) or call us today.

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