

# GLASS CURING SOLUTIONS

*Custom Oven Systems for Cost Savings and Quality Assurance*

**BGK**®



*Lamp Lane Zoning  
Dryer is in "up" (access) position*

**The right combination of Infrared and Convection heat,**  
BGK Curing Systems are custom designed for your parts and your process.

#### **Lane Zone Control**

Emitters are grouped into zones that can be turned on and off to accommodate different parts and provide substantial energy savings

#### **Closed Loop Control**

The system can read the temperature of the glass and adjust the lamps for consistency

#### **Part Recipe Control**

After initial setup, a "part recipe" can be stored. This recipe can then be called up anytime this particular part is run.

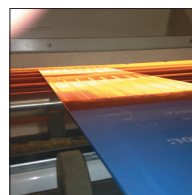
**BGK Curing Systems** are custom designed for each application. The BGK engineering team studies a variety of parameters to design and manufacture the perfect electric infrared curing solutions. These precision engineered ovens offer curing capabilities for all types of glass applications.

#### **APPLICATIONS**

- Encapsulation Pre-Heat
- Spandrels
- Digital Inks
- Ceramic Frits
- Water Based Frits
- Silvering
- Busbar Beading
- DE Powder Application
- De-Airing

**BGK**®

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**The Zone Dryer**

Designed for ceramic frit, ink drying and digitized printing on architectural glass.

*Infrared Heat on Both Sides*

High intensity emitters are placed above and below the glass, allowing the ink to be cured from both sides without any distortion.

*Lane Zone Control*

Infrared emitters are grouped in zones across the width of the dryer. Only the zones necessary to heat the specific size of glass will be activated, resulting in energy savings.



*Exhaust Blower*

The system includes a variable speed exhaust blower to remove air from the dryer cavity and to keep emissions at an acceptable level.

*Idle Mode*

If the machine does not sense parts, it will fall into an idle mode, reducing voltage and slowing the exhaust blower, maintaining a constant temperature. This insures that all drying is consistent from the first part to the last.

*Powered Roller Conveyor*

The dryer includes stainless steel rollers ideally spaced for your application. Other types of belts are available if they are determined to be best for the application.

*Part Recipe Control*

The part recipe function allows the system to store a recipe for each part. Once that recipe has been set, it can be called up when that part is produced again to minimize set up time.

*Automatic Four Point Lift System*

The lift system will raise the top portion of the oven off of the lower half at the conveyor level, allowing operator access to the inside of the machine for easy maintenance.



**De-Airing Tack Ovens**

De-Airing Tack Ovens are designed to provide even heating across the width of the glass by means of independent control lane zoning.

De-Airing Tack Ovens also provide even heating of both the top and bottom lites of formed windshields by means of independent control. They feature lamp lane zoning above and below the booked windshields.





**The Pulse Dryer**

Perfect for ceramic frit drying on automotive glass.

*Combination Infrared and Convection Dryer*

The pulse dryer places infrared emitters inside a convection oven. Placing the IR heating modules between the high velocity hot air nozzles creates a “pulse” drying system. This rapid drying provided energy efficient compact designs with rapid cycle times.

This dryer contains many of the same features as the Zone Dryer featured on the previous page, including:

- Lane Zone Control
- Exhaust Blower
- Idle Mode
- Powered Roller Conveyor
- Part Recipe Control
- Closed-Loop Control
- Automatic Four Point Lift System

*Convection Air Nozzles*

Because this dryer includes a recirculating convection air system, air temperature within the dryer is maintained at a constant temperature. Air exits the nozzles to sweep over the glass surface and then be drawn to the bottom of the dryer to recirculate back to the top of the oven.

*Closed-Loop Control*

The system includes an optical pyrometer that reads the temperature of the exiting part and automatically modulates the voltage to the emitters to regulate temperature for consistency.

*Cooldowns*

Ambient air and conditioned air cooldowns are also offered.



4-point lift system



**Preheat Ovens**

*Encapsulation Preheat Oven*

Preheats lites for a better encapsulation process.

Lites are set on a belt and moved under the infrared emitters. They are held under the lamps until they reach the desired temperature. An optical pyrometer is used to ensure the lite remains at temperature until it can be removed and the side molding is attached. Applying adhesive to a pre-heated part aids in the curing process, allowing the adhesive to properly set.



**Diatomaceous Earth (DE) Application Booth**

This system will preheat windshield lites and apply DE to the surface. The DE is used as a slip agent between the windshield lites prior to the sagging operation, where they are heated and formed into the final shape of the windshield.

The booth is supplied with IR heaters to preheat the glass and post heat after DE application.

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