



GAS CATALYTIC INFRARED OVENS

LOW COST CURING SOLUTION

BGK offers a proven line of curing technologies and now expands its product offering with the introduction of the Gas Catalytic Infrared Ovens. Providing faster process times than convection style ovens, resulting in less equipment and floor space. Gas catalytic IR ovens can improve quality and consistency of finish for powder or liquid applications, drying, curing or heating, providing emitter surface temperatures in the range of 700°F to 1,000°F.

Catalytic IR Ovens offer both natural gas or propane fired catalytic infrared heaters, which emit infrared heat through a safe, technology which produces a uniform low intensity heat. This heat, in the form of medium to long wavelength energy, is evenly absorbed by a wide range of organic materials, providing a versatile curing solution for low to high density applications.

The reduced operating costs, offered by catalytic heaters, has become the preferred system for retrofits of large electrical infrared applications, offering substantial energy cost reduction with rapid payback. The large emissive surface area allows processing of extremely geometrically complex objects.

Catalytic Gas Infrared Panels

The key to a great gas catalytic oven is the emitter. Our emitters are environmentally friendly, unlike normal combustion ovens, producing only trace amounts of nitrogen oxides due to their low operating temperatures.

Lower operating costs...

up to 50% less expensive to run than a convection oven.

Highly controllable...

to meet demanding finishing requirements.

Small footprint...

ideal for lean manufacturing.



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Features and Benefits

- **Smart** - infrared heats what needs to be heated, not the surrounding air, taking less time and energy to cure a part.
- **Versatile** - it can handle a large variety of finishing applications, from oddly shaped to demanding substrates and complex coatings.
- **Cost effective** - infrared provides higher production rates and lower operating costs, while providing high quality parts.
- **Custom design** - each unit is custom designed for your application and specifications.
- **Controllable** - custom engineered control packages offer the ability to precisely control every facet of your production.

BGK offers two types of flameless catalytic gas infrared emitters:

XP Series – explosion proof emitters. 33% more energy efficient than any competitor.

MP Series – Designed for use in non-hazardous applications. The hottest certified catalytic gas emitter on the market.

- Offered in a variety of preheat voltages.
- Natural gas or propane configurations.
- Variety of mounting bracket options.

Specifications

- CSA for use in Class I, Div 1 & 2, Group D hazardous locations.
- FM for use in Class I, Div 1, Group D hazardous locations. Temperature code T2C at an ambient temperature of 40° C (104° F).
- CE and ATEX certified.



MP Series

- Maximum Gas Input 2,667 – 72,000 Btu/hr (kW) (propane and natural gas) – dependent upon emitter size.
- Emitter Sizes range from 6"X6" to 24"X72"



XP Series – Explosion Proof

- Maximum Gas Input 2,222 – 60,000 Btu/hr (kW) (propane and natural gas) dependent upon emitter size.
- Emitter Sizes range from 6" x 6" to 24" x 72"

BGK

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