



# Convection Ovens

## ISO Dynamic & Recirculating

Overhead trolley conveyors, floor conveyors, belt, chain, and flight conveyors are commonly used for transport purposes.



### PROCESS

These modular factory-built convection type ovens operate at temperatures ranging from 100°F up to 600°F. Ovens can be heated with gas, fuel oil or electricity and are designed to move products through the heat zone using a variety of transport systems.

### APPLICATIONS

GFS provides equipment and services to customers who manufacture a wide range of products – automotive components, major appliances, office furniture, outdoor equipment to name a few.



- > Paint Drying and Curing
- > Powder Curing
- > E-Coat Curing
- > Autophoretic Curing
- > Dry-off and Dehydration
- > Heat Treating

# Convection Ovens

Oven heat transfer design is available in both conventional Recirculating and ISO-Dynamic Flow technology. ISO-Dynamic heat transfer designs provide heating cycles 50% to 70% shorter than those required by conventional recirculating designs.

## Typical Curing / Drying Cycles:

Application	Temperature	Conventional	ISO-Dynamic Flow	Time Savings
Powder Curing	375° F - 450° F	30 - 45 min.	8 - 20 min.	> 22 min.
E-Coat	350° F	30 min.	15 min.	15 min.
Liquid (water)	180° F - 250° F	20 - 30 min.	10 - 15 min.	> 10 min.
Liquid (solvent)	180° F - 350° F	20 - 30 min.	6 - 12 min.	> 14 min.
Autophoretic (Acc 800)	230° F	20 - 30 min.	10 - 15 min.	> 10 min.
Dry-Off (water)	250° F - 300° F	10 min.	4 - 5 min.	> 5 min.



GFS has over thirty-five years experience in designing and manufacturing industrial ovens and is recognized as a leader in heat transfer technology. For this reason we are committed to assisting our customers in solving specific finishing and heat processing challenges.

## STANDARD FEATURES

### ISO-Dynamic Oven

- > Structural Modular Steel Framing
- > Exterior Casing (16 ga.)
- > Interior Aluminized Skin (18 ga.)
- > Steel Headers & Jet Pipes
- > Air Blower(s)
- > Exhaust Fan(s)
- > Control Panel (NEMA 12)
- > Temperature Control Instruments
- > Combustion Safeguards (FM/IRI)
- > Gas Train (FM/IRI)
- > Ignition System
- > Burner
- > Burner Box
- > Prime & Finish Paint

### Recirculating Oven

- > Structural Modular Steel Framing
- > Insulated Aluminized Panels (20 ga.)
- > Interior Aluminized Duct (16 ga.)
- > Recirculating Blower(s)
- > Exhaust Fan(s)
- > Control Panel (NEMA 12)
- > Temperature Control Instruments
- > Combustion Safeguards (FM/IRI)
- > Gas Train (FM/IRI)
- > Ignition System
- > Burner
- > Burner Box
- > Prime & Finish Paint

All designs, specifications and components are subject to change at the manufacturer's sole discretion at any time without notice. Data published herein is informational in nature and shall not be construed to warrant suitability of the unit for any particular purpose as performance may vary with the conditions encountered.

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