BATCH PROCESS OVENS

Designed for drying, curing, baking or preheating, Batch Process Ovens from Global Finishing Solutions feature excellent heat transfer technology in a compact design. The uni-flow air distribution system circulates heated air on both sides of the oven for a balanced, uniform temperature throughout the oven, resulting in a quality finish for your products.

OVEN FEATURES

- Four-inch insulated panels made from 20-gauge aluminized steel with four-pound, heavy-duty mineral wool batt
- Built-in, adjustable uni-flow air distribution tabs allow for uniform temperature
- 12-gauge formed steel support structure with trouble-free, bolt-together assembly
- INSIGHT control panel
- Equipped for natural gas or propane
- Top- or rear-mounted heat chamber
- Standard temperature range: 300-500 degrees Fahrenheit; consult factory for other settings
- Gas supply pressure: 2-5 PSIG
- Airflow switches and interlocks
- Gas manifold features valving that meets FM insurance requirements
- Meets NFPA 86

OVEN OPTIONS

- White pre-coated panels
- Six-pound mineral wool batt
- Sheet metal or insulated floor
- Exhaust duct components
- Oven cart or truck tracks
- Door limit switches
HEAVY-DUTY, INSULATED PANELS

GFS manufactures our oven panels to ensure quality. Each oven panel is constructed of 20-gauge aluminized steel, with four inches of four-pound mineral wool batt for heat retention. Each oven panel has tongue-and-groove edges with 20-gauge slotted channels for precise assembly.

UNI-FLOW AIR DISTRIBUTION

The uni-flow air distribution system with adjustable air distribution tabs circulates heated air on both sides of the oven for a balanced, uniform temperature throughout.

OVEN CONTROLS

GFS’ Batch Process Oven comes standard with the INSIGHT control panel. This PLC-based control system continuously monitors all systems for safety and function. The simplistic setup and operating screens, along with built-in help screens, provide the operator with the current status of the oven. The remote operator station comes standard with a pre-wired cable assembly for fast, easy wiring between the operator and the control panel.
Continuous Process Ovens
ISO Dynamic & Recirculating

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

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

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.
BURN-OFF OVENS

Heat cleaning is a safe, efficient method for removing baked-on paint from racks, hooks and fixtures. A leader in heat transfer technology, GFS uses this heat cleaning technology in our Batch Burn-Off Ovens to safely remove paint. An air temperature of 750 degrees Fahrenheit ignites the baked-on paint, turning it to ash.

Benefits:
- Eliminates hazardous chemicals in the workplace
- Very low labor cost
- Limited secondary clean-up
- Oven controls are fully automatic
- Compact design saves floor space
- Central heat distribution for optimum balance of heat

WASH BOOTHS

Engineered to address ash containment and secondary clean up associated with a burn-off process.

Standard Features:
- Constructed of 10 gauge steel and heavy structural steel support with one overhead roll-up doors
- Heavy-duty structural steel cart with track extension
- Header and spray nozzle system
- Manual rinse station with wand and hose for detailing of parts
- Polypropylene roof panels for greater visibility inside of booth
- Reservoir tank made of 10 gauge steel
- Media filter baskets with handles for easy removal of ash
- Low solution level switch to prevent pump cavitation
APPLICATIONS

Batch Burn-Off Ovens can remove limited amounts of paint, powder coating, epoxies, lacquers, urethanes and other organic or inorganic compounds from a variety of parts, such as:
- Racks
- Hooks
- Fixtures
- Part reclamation

Other Applications
- Engine & Part rebuilders
- Electric motor rebuilders

PROCESS

The process is simple: the operator loads a rack of parts to be cleaned into the oven, pushes the start button and closes the door. The average cycle time is 2 to 6 hours. The system is fully automatic, which allows the operator the option of handling other tasks or running the oven at night. The central heat distribution system ensures even temperatures throughout the oven chamber and eliminates cold spots. This precise control of temperature prevents distortion of the part during the process. The primary and secondary water suppression system along with the monitoring of both the oven and afterburner chamber temperatures ensures a safe controlled burn-off.

SAFE AND CLEAN

During the process, hazardous contaminants are eliminated by the oven’s afterburner. The afterburner thermally destroys pollutants at temperatures ranging from 1400 °F to 1900 °F. What's left is a small amount of ash that can be easily shaken or brushed off. In most areas, this ash is not considered hazardous waste. GFS ovens are approved by Air Quality Authorities throughout the U.S., Canada and overseas.

SECONDARY CLEAN-UP

GFS has engineered and manufactured a Wash Booth to address ash containment and typical house cleaning normally associated with a burn-off process. GFS is the only burn-off oven manufacturer to address secondary cleanup and offer a solution. Please contact GFS for more information.

OPTIONAL

- Custom controls and sizes
- Stainless steel oven interior
- Customized cart
- Temperature indicating package chart recorded (dual pen)
- FM or IRI controls

Other Applications
- Engine & Part rebuilders
- Electric motor rebuilders

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<td>36&quot; x 36&quot;</td>
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<td>1,085 ft³</td>
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+ Rear Mount Afterburner
### PROCESS

Designed for the secondary cleanup of burned-off racks, hooks, fixtures, and parts. After the burn-off process, the operator transfers the load to the wash booth cart. The cart is rolled into the wash booth and the overhead doors are closed. The operator then turns on a high-volume pump, drawing ambient water from the side reservoir tank. The water is sprayed through nozzles located overhead and in each corner.

The loose ash is flushed from the surface and travels to the filtration area where it is collected for manual removal. A spray wand is included for manual detailing of the parts as needed and will require plant water tie-in for water supply. Overhead roll-up doors, located in front and rear of the booth, allow the operator to access the load for manual detailing and final removal as needed.

### OPTIONS

- Auxiliary manual power washer (2 gpm @ 1000 psi)
- Overhead hoist (electric, 2000 lbs)
- Turntable
- Additional roll-up door
- Customized cart

### Table: External Dimensions and Load Area

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<th>External Dimensions</th>
<th>Load Area*</th>
<th>Load Volume PS</th>
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All dimensions are approximate, in inches.
* Dimensions are wall to wall and height over cart.

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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.
FROM AMERICA’S HEARTLAND TO YOUR FRONT DOOR
Made in Wisconsin, USA

All of GFS’ products are fully designed and manufactured in our Osseo, Wisconsin facility. With a strong history in manufacturing, Wisconsin is home to a large and diversified economy. Among good company, some of America’s largest manufacturers have placed their roots in this state, including Briggs & Stratton, Harley-Davidson, Johnson Controls, Mercury Marine, Oshkosh and Rockwell Automation.

With more than 200,000 square feet of manufacturing space and state-of-the-art equipment, GFS has the capacity and talent to build our booths from scratch. Virtually every part of our products are built in our shop, including the sheet steel, control panels, lights and hinges.

GLOBALFINISHING.COM
800-848-8738 • info@globalfinishing.com

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BURNOFF-DW 10062017