



GLOBAL FINISHING SOLUTIONS

Batch Process Ovens

APPLICATIONS:

GFS Batch Process Ovens have numerous industrial applications which include, but are not limited to:

- > Drying
- > Curing
- > Baking
- > Preheating

Top Mounted Heat Unit



Rear Mounted Heat Unit



DEPENDABLE HEATING FOR A VARIETY OF TASKS

In today's marketplace, resources are always limited, contracts are hard to come by and floor space is at a premium. That makes versatility a prime consideration when buying equipment. GFS is a leader in heat transfer technology and manufactures Batch Process Ovens that provide an economical solution for a variety of industrial processes. Our batch process ovens feature the uni-flow air distribution system, the supply air plenums are located on both sides of the oven. The hot air exiting the plenum is pulled across and up through the part to the return air opening located in the heater box.

GFS Batch Process Ovens

Model	Dimensions								Air Change (min.)	Burner Size		Recirculation Fan			Cubic Ft.	Exhaust Fan		
	Interior Dimensions			Exterior Dimensions (Includes Heater Box)						B.T.U.'s (000)	K.W.'s	Size	CFM	HP		Size	CFM	HP
	Width	Height	Length	Width	Rear Mount		Top Mount											
				Height	Length	Height	Length											
GBO-050605	5'-0"	6'-0"	5'-0"	7'-9"	7'-10"	11'-2"	n/a	n/a	20	500	150	12"	3,000	5	317	10"	500	1
GBO-050606	5'-0"	6'-0"	6'-0"	7'-9"	7'-10"	12'-2"	n/a	n/a	16	500	150	12"	3,000	5	370	10"	500	1
GBO-050608	5'-0"	6'-0"	8'-0"	7'-9"	7'-10"	14'-2"	11'-5"	9'-9"	18	500	150	15"	4,500	7.5	475	10"	500	1
GBO-050610	5'-0"	6'-0"	10'-0"	7'-9"	7'-10"	16'-2"	11'-5"	11'-9"	15	500	150	15"	4,500	7.5	580	10"	500	1
GBO-050612	5'-0"	6'-0"	12'-0"	7'-9"	7'-10"	18'-2"	11'-5"	13'-9"	12	500	150	15"	4,500	7.5	685	10"	500	1
GBO-060606	6'-0"	6'-0"	6'-0"	8'-9"	7'-10"	12'-2"	n/a	n/a	20	500	150	15"	4,500	7.5	423	10"	750	1
GBO-060608	6'-0"	6'-0"	8'-0"	8'-9"	7'-10"	14'-2"	11'-5"	9'-9"	15	500	150	15"	4,500	7.5	543	10"	750	1
GBO-060610	6'-0"	6'-0"	10'-0"	8'-9"	7'-10"	16'-2"	11'-5"	11'-9"	12	500	150	15"	4,500	7.5	663	10"	750	1
GBO-060612	6'-0"	6'-0"	12'-0"	8'-9"	7'-10"	18'-2"	11'-5"	13'-9"	16	1,000	288	18"	7,000	7.5	783	12"	1,000	1
GBO-060706	6'-0"	7'-0"	6'-0"	8'-9"	8'-10"	12'-4"	n/a	n/a	17	500	150	15"	4,500	7.5	480	10"	750	1
GBO-060708	6'-0"	7'-0"	8'-0"	8'-9"	8'-10"	14'-2"	12'-5"	9'-9"	13	500	150	15"	4,500	7.5	616	10"	750	1
GBO-060806	6'-0"	8'-0"	6'-0"	8'-9"	13'-5"	7'-9"	n/a	n/a	15	500	150	15"	4,500	7.5	536	10"	750	1
GBO-060808	6'-0"	8'-0"	8'-0"	8'-9"	9'-10"	14'-2"	13'-5"	7'-9"	11	500	150	15"	4,500	7.5	688	10"	750	1
GBO-060810	6'-0"	8'-0"	10'-0"	8'-9"	9'-10"	16'-3"	13'-5"	11'-9"	14	1,000	288	18"	7,000	7.5	840	12"	1,000	1
GBO-060812	6'-0"	8'-0"	12'-0"	8'-9"	n/a	n/a	13'-5"	13'-9"	12	1,000	288	18"	7,000	7.5	993	12"	1,000	1
GBO-080808	8'-0"	8'-0"	8'-0"	10'-9"	9'-10"	14'-3"	13'-5"	9'-9"	13	1,000	288	18"	7,000	7.5	860	12"	1,000	1
GBO-080810	8'-0"	8'-0"	10'-0"	10'-9"	9'-10"	16'-3"	13'-5"	11'-9"	10	1,000	288	18"	7,000	7.5	1050	12"	1,000	1
GBO-080812	8'-0"	8'-0"	12'-0"	10'-9"	9'-10"	18'-3"	13'-5"	13'-9"	11	1,000	288	20"	8,600	10	1240	12"	1,000	1
GBO-080814	8'-0"	8'-0"	14'-0"	10'-9"	9'-10"	20'-3"	13'-5"	15'-9"	9	1,000	288	20"	8,600	10	1430	12"	1,000	1
GBO-080816	8'-0"	8'-0"	16'-0"	10'-9"	9'-10"	22'-3"	14'-6"	17'-9"	13	1,000	288	27"	14,000	15	1620	12"	1,500	2
GBO-080818	8'-0"	8'-0"	18'-0"	10'-9"	9'-10"	24'-3"	14'-6"	19'-9"	12	1,000	288	27"	14,000	15	1810	12"	1,500	2
GBO-080820	8'-0"	8'-0"	20'-0"	10'-9"	9'-10"	26'-3"	14'-6"	21'-9"	10	1,000	288	27"	14,000	15	2000	12"	1,500	2
GBO-081008	8'-0"	10'-0"	8'-0"	10'-9"	11'-10"	14'-3"	15'-5"	9'-9"	10	1,000	288	18"	7,000	7.5	1041	12"	1,000	1
GBO-081010	8'-0"	10'-0"	10'-0"	10'-9"	11'-10"	16'-3"	15'-5"	11'-9"	10	1,000	288	20"	8,600	10	1271	12"	1,000	1
GBO-081012	8'-0"	10'-0"	12'-0"	10'-9"	11'-10"	18'-3"	15'-5"	13'-9"	8	1,000	288	20"	8,600	10	1502	12"	1,000	1
GBO-081014	8'-0"	10'-0"	14'-0"	10'-9"	11'-10"	20'-3"	16'-6"	15'-9"	12	1,000	288	27"	14,000	15	1732	12"	1,500	2
GBO-081016	8'-0"	10'-0"	16'-0"	10'-9"	11'-10"	22'-3"	16'-6"	17'-9"	10	1,000	288	27"	14,000	15	1962	12"	1,500	2
GBO-081018	8'-0"	10'-0"	18'-0"	10'-9"	11'-10"	24'-3"	16'-6"	19'-9"	10	1,000	288	27"	14,000	15	2192	12"	1,500	2
GBO-081020	8'-0"	10'-0"	20'-0"	10'-9"	11'-10"	26'-3"	16'-6"	21'-9"	9	1,000	288	27"	14,000	15	2422	12"	1,500	2
GBO-101008	10'-0"	10'-0"	8'-0"	12'-9"	11'-10"	14'-3"	16'-6"	9'-9"	17	1,000	288	27"	14,000	15	1249	12"	1,500	2
GBO-101010	10'-0"	10'-0"	10'-0"	12'-9"	11'-10"	16'-3"	16'-6"	11'-9"	14	1,000	288	27"	14,000	15	1525	12"	1,500	2
GBO-101012	10'-0"	10'-0"	12'-0"	12'-9"	11'-10"	18'-3"	16'-6"	13'-9"	11	1,000	288	27"	14,000	15	1801	12"	1,500	2
GBO-101014	10'-0"	10'-0"	14'-0"	12'-9"	11'-10"	20'-3"	16'-6"	15'-9"	10	1,000	288	27"	14,000	15	2077	12"	1,500	2
GBO-101016	10'-0"	10'-0"	16'-0"	12'-9"	11'-10"	22'-3"	16'-6"	17'-9"	9	1,000	288	27"	14,000	15	2353	12"	1,500	2
GBO-101018	10'-0"	10'-0"	18'-0"	12'-9"	11'-10"	24'-3"	16'-6"	19'-9"	8	1,000	288	27"	14,000	15	2629	12"	1,500	2
GBO-101020	10'-0"	10'-0"	20'-0"	12'-9"	11'-10"	26'-3"	16'-6"	21'-9"	7	1,000	288	27"	14,000	15	2905	12"	1,500	2

Most Models are available with a Top or Rear Mount Heater Box with a Solid Back or Drive Thru option.

Sample Model # with options:
 Model # GBO-080810-T-SB (Top Mount w/Solid Back)
 T-DT (Top Mount w/Drive Thru)
 R-SB (Rear Mount w/Solid Back)

**Custom Oven sizes
are available**

Contact GFS!

Standard Oven Construction & Features

- All GFS Batch Process Ovens are built to NFPA-86 standards and include adjustable air distribution tabs whereby the air velocity (air movement through the oven) can be balanced for uniformed temperature and air-flow. This is a key GFS built-in feature.
- 20-gauge aluminized steel, fabricated panels, insulated with 4" of heavy duty mineral wool batt.
- Oven support structure consists of 12-gauge formed steel with trouble-free bolt together assembly.
- Ovens can be equipped for Natural Gas or Propane.
- Most models are available with a Top or Rear Mount Heat Chamber
- Standard temperature range is 300°F to 500°F, consult factory for other settings
- Gas connection size is 1", gas supply pressure from 1 PSIG to 5 PSIG.
- Air Flow Switches and Interlocks
- The gas manifold assembled by GFS features valving that meets F.M. insurance requirements.
- Uni-Flow Air Distribution

Insulated Oven Panels

Manufactured at GFS, our oven panels are constructed of aluminized 20 gauge steel skins, with 4 inches of mineral wool batt for heat retention.

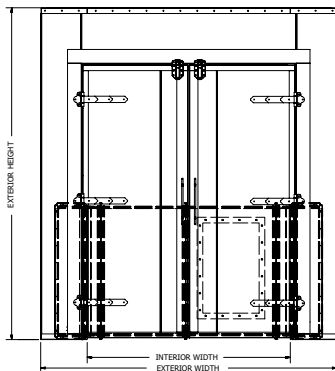


Each panel is tongue and grooved with 20 gauge slotted channels for precise, plumb assembly.

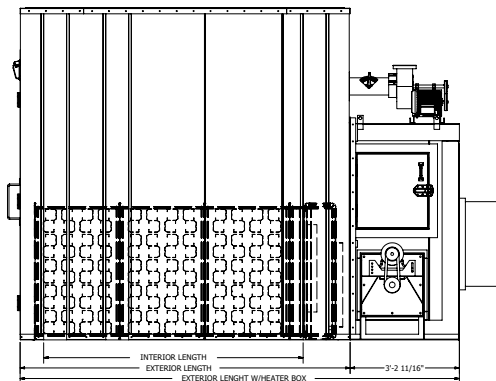


Sample Drawings

Rear Mounted Heater



FRONT ELEVATION

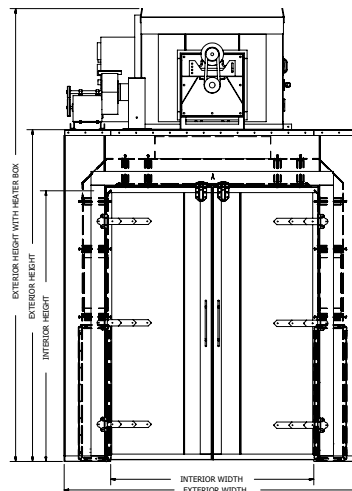


SIDE ELEVATION

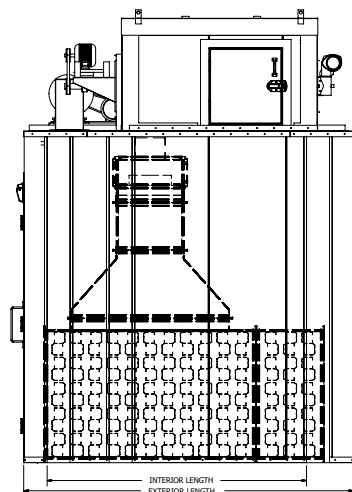
Top Mounted Heater

Field assembly required, factory assembly optional on some models, consult factory.

Heater box assembled, pre-fired and tested at factory. Final adjustments required after assembly and upon start-up.



FRONT ELEVATION



SIDE ELEVATION

Options:

- Electric operation
- Sheet metal or insulated floor
- Exhaust fan transition & exhaust components
- Oven cart or Truck tracks
- Door limit switches

Standard INSIGHT Control Panel

GFS Batch Process Ovens come standard with the INSIGHT control panel, and a control system featuring The Professor. The control panel comes standard with the following components.

- NEMA Type 1 industrial panel with door mounted disconnect switch.
- Operator remote control station with 5.7" black & white touch screen.
- Complete control panel is UL 508A listed for flame control
- Choice of Continuous run or Batch Control.
- Easy pop-up screens for setting temperatures, and batch cycle times
- Digital display of Set Point Temperature, and Current process temperature
- Digital display of Batch Set Time, and Time Remaining
- Intuitive pop-up screens of current changing operations, and faults
- Access to the Professor help functions



The major feature of the INSIGHT control panel is the PLC based control, and a touch screen remote featuring the Professor. The 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 the current status of the oven. Pop up displays will display running information and faults. The remote operator station comes standard with a pre-wired cable assembly for fast easy wiring between the operator station and the control panel.



INSIGHT Optional Features:

- Ramp Soak Recipe Control. This option allows the operator to set up to 4 segments of time and temperature. Using this control option, the operating system will ramp up to a set temperature, and soak at this temperature for a set time duration, before moving on to the next segment.
- Ramp Control. This option allows the operator to set a temperature, and a time to reach the set temperature. At the end of the ramp to set point control, the system will continue to operate to a set time duration before going into an end of cycle control.
- Push Button Control. Mechanical push buttons for System Stop/Start, And Batch Control.
- Paperless Charting. Paperless chart recording of time, and temperatures in a batch. This information is available for download for permanent record.
- Remote operator station with 10" color HMI.
- Remote Access Modem: The Modem will allow access to the control system from an external source for help with diagnostics. This option requires an analog phone line.
- Ethernet Connectivity: This feature allows for the PLC, and optional paperless recorder option to connect to a facility Ethernet system for transfer of information.
- End of Cycle Alarm: This option includes a stack light that will indicate an end of a batch cycle, and an audible alarm that can be acknowledged and silenced if desired.
- Auto Start: This feature is a 24 hour time clock that allows the automatic start up, and pre-heat of the oven at the beginning of a shift.

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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