

# Laboratory Bench Ovens

Grieve Bench Ovens provide long service life at an economical price. Variety of models to suit your application and your budget. All 120 volt models are UL and cUL listed and include a cord and plug. All 240 volt models include a cord with European / International plug.

## STANDARD FEATURES

- Temperatures to 275°C (527°F)
- Choice of capacities—2.5, 3.8 and 5 cubic feet
- Gravity or mechanical convection
- Electronic temperature controllers
- Built-in safety backup maintains temperature at 5°C above setpoint if the primary controller fails
- 304 stainless steel interior for easy cleaning
- Heavy gauge, powder coated steel cabinet
- Chrome plated wire shelves
- 3" insulation for minimum heat loss
- One-piece silicone door gasket and positive locking door latch
- Door opens a full 180° for easy access
- 3-wire line cord
- Circuit breaker overload protection
- 1 year limited warranty

## GA SERIES

Gravity convection ovens designed for general laboratory use when temperature control and uniformity are less critical. Ideal for drying samples, such as fine powders, requiring low turbulence air flow. Temperatures to 225°C (437°F). Analog (°C) temperature controller includes LED indicators to show power on, heat on, and alarm condition when safety backup is controlling temperature.

## GM SERIES

Identical to GA Series above for operating temperatures to 275°C (527°F) and includes microprocessor based temperature controller as described under FM Series below.

## FM SERIES

Forced convection ovens feature a blower system for improved performance. An ideal choice when temperature uniformity and control are important considerations. The blower gently circulates heated air throughout the chamber improving temperature uniformity and control. This forced convection also reduces heat-up and recovery time. Temperatures to 275°C (527°F). Microprocessor based temperature controller includes digital display of temperature in °C. LED indicators to show temperature setting is being changed, heat on, and alarm condition when safety backup is controlling temperature.

**EASILY PORTABLE  
GRAVITY AND  
FORCED CONVECTION  
BENCH OVENS**



**MODEL GAA-225**



**MODEL FMA-275**

# SPECIFICATIONS

NOT FOR USE WITH FLAMMABLE SOLVENTS OR VAPORS. OTHER MODELS AVAILABLE FOR THESE APPLICATIONS—PLEASE CONSULT FACTORY.

Model	Work Space		Outside Dimensions (WxDxH)	Max Temp	Number of Shelves*	Insulation	Watts	Operating Characteristics†			Approx Shipping Weight	
	Dimensions (WxDxH)	Volume Cu Ft						Control Sensitivity	Oven Uniformity	Rise Time		
Gravity Convection Analog Controller	GAA-225	18" x 18" x 13 1/2"	2.5	25 7/8" x 23 1/2" x 26"	225°C	1	3"	1300	±0.5°C	±5°C	45 min	115 lbs
	GAB-225	18" x 18" x 20"	3.8	25 7/8" x 23 1/2" x 33"	225°C	1	3"	1300	±0.5°C	±5°C	60 min	125 lbs
	GAC-225	18" x 18" x 26 1/2"	5	25 7/8" x 23 1/2" x 39 1/2"	225°C	2	3"	1300	±0.5°C	±5°C	120 min	140 lbs
Gravity Convection Digital Controller	GMA-275	18" x 18" x 13 1/2"	2.5	25 7/8" x 23 1/2" x 26"	275°C	1	3"	1300	±0.5°C	±4°C	40 min	120 lbs
	GMB-275	18" x 18" x 20"	3.8	25 7/8" x 23 1/2" x 33"	275°C	1	3"	1800	±0.5°C	±4°C	80 min	130 lbs
	GMC-275	18" x 18" x 26 1/2"	5	25 7/8" x 23 1/2" x 39 1/2"	275°C	2	3"	1800	±0.5°C	±4°C	100 min	145 lbs
Forced Convection Digital Controller	FMA-275	18" x 18" x 13 1/2"	2.5	25 7/8" x 23 1/2" x 26"	275°C	1	3"	1300	±0.5°C	±3°C	70 min	120 lbs
	FMB-275	18" x 18" x 20"	3.8	25 7/8" x 23 1/2" x 33"	275°C	1	3"	1800	±0.5°C	±3°C	80 min	130 lbs
	FMC-275	18" x 18" x 26 1/2"	5	25 7/8" x 23 1/2" x 39 1/2"	275°C	2	3"	1800	±0.5°C	±3°C	80 min	145 lbs

\*30 lbs distributed loading, 75 lbs maximum oven load

†Uniformity at 200°C. Rise Time in minutes to 200°C. Tests run with empty oven. Performance will vary with load, exhaust rate and application. See Bulletin TC-920 for additional details.

## STANDARD EQUIPMENT

### • Standard Electrical Characteristics

- 120 volts, 50-60 Hz, 3-wire cord and plug
- 240 volts, 50-60 Hz, 3-wire cord and plug

### • Standard Features

Electronic calibrated temperature controller sets desired oven temperature. Backup safety maintains temperature control at 5°C above setpoint should the primary controller fail. GM and FM series include microprocessor based temperature controller with digital temperature display in °C. LED indicators show heat on and alarm condition.

## GA and GM SERIES

### • Gravity Convection

Heat is transferred directly from bottom up through the oven chamber, and exits by gravity convection through vent at the top of work space.

## FM SERIES

### • Forced Convection

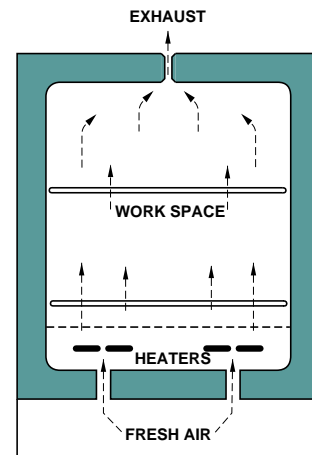
Includes forced circulation for improved temperature uniformity, large moist loads, or to speed up drying times. Heated air is gently forced horizontally inward from both sides of the oven chamber where it exits through openings in the sidewall plenums. It circulates through the oven, is drawn down through the center of the chamber, reheated and recirculated. Exhaust is through vent at the top of work space.

## ADDITIONAL EQUIPMENT AVAILABLE

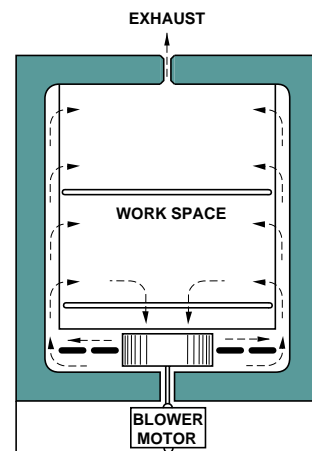
- Additional Shelves, 30 lbs distributed load per shelf, 75 lbs maximum oven load.....SHLFGF

Models GAA-225, GMA-275 & FMA-275 hold a maximum of 5 shelves  
 Models GAB-225, GMB-275 & FMB-275 hold a maximum of 8 shelves  
 Models GAC-225, GMC-275 & FMC-275 hold a maximum of 11 shelves

### Circulation Diagrams (Front View)



GA and GM Series Gravity Convection



FM Series Forced Convection



Ovens and Furnaces For Industry Since 1949  
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