

**BULLETIN
BH-251**

Microprocessor Bench Ovens

Grieve Bench Ovens with microprocessor temperature control and forced convection are designed for the laboratory requiring the unmatched accuracy and precision of microprocessor technology in a convenient, portable unit. They provide excellent uniformity and temperature control, rapid rise and recovery times.

STANDARD FEATURES

- Temperatures to 300°C (572°F)
- Proportional temperature control
- Digital set point guarantees repeatable settings
- Large digital temperature display of set point and oven temperature
- Platinum RTD temperature sensor
- Over-temperature protection system
- Panel lights indicate over-temperature condition
- 304 stainless steel interior
- Enameled steel exterior
- 3" insulation all sides
- Plug style door to retain chamber heat
- One-piece silicone door gasket
- Two (2) chrome plated wire shelves, adjustable on 1 3/4" centers
- 3-wire line cord
- 1 year limited warranty

MP SERIES

Digital microprocessor temperature control system provides the most accurate and reproducible condition possible. Proportioning controller ensures minimal overshoot and excellent temperature control. Temperatures to 300°C (572°F). Choice of capacities—2.5, 3.5 and 4.4 cubic feet.

**MICROPROCESSOR
CONTROLLED
FORCED CONVECTION
BENCH OVENS**



MODEL MPA-271



MODEL MPB-271

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	Blower		Number of Shelves	Insulation	Watts	Operating Characteristics†			Approx Shipping Weight
	Dimensions (WxDxH)	Volume Cu Ft			CFM	HP				Control Accuracy	Oven Uniformity	Rise Time	
MPA-271	13" x 17 ¹ / ₈ " x 19 ¹ / ₂ "	2.5	21 ⁵ / ₈ " x 25 ¹ / ₄ " x 35 ¹ / ₂ "	300°C	125	¹ / ₁₅	2	3"	1300	±0.1°C	±1.0°C	40 min	150 lbs
MPB-271	18" x 17 ¹ / ₈ " x 19 ¹ / ₂ "	3.5	26 ⁵ / ₈ " x 25 ¹ / ₄ " x 35 ¹ / ₂ "	300°C	125	¹ / ₁₅	2	3"	1900	±0.1°C	±1.0°C	40 min	170 lbs
MPC-271	23" x 17 ¹ / ₈ " x 19 ¹ / ₂ "	4.4	31 ⁵ / ₈ " x 25 ¹ / ₄ " x 35 ¹ / ₂ "	300°C	125	¹ / ₁₅	2	3"	1900	±0.1°C	±1.0°C	40 min	180 lbs

†Accuracy and uniformity at 100°C. Rise Time in minutes to 200°C. Tests run with empty oven and minimum exhaust. 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
- Other electrical characteristics available

• Standard Temperature Control Systems

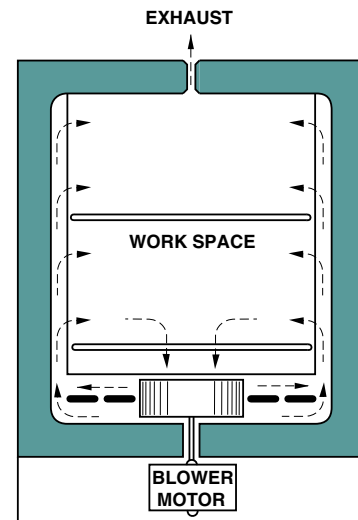
MP SERIES

Microprocessor temperature control system provides the unmatched accuracy, precision, and convenience of microprocessor technology. Proportional temperature control ensures accurate temperature regulation. Digital set guarantees repeatable settings and a large digital temperature display indicates oven temperature. A platinum RTD monitors and responds instantly to the temperature of the workload. Optional programmable control (ramp/dwell capability) and timer are listed below.

For over-temperature protection, a second control system consisting of an independent hydraulic thermostat, set by the operator to a temperature slightly higher than the set point, provides a mechanical back-up should the microprocessor fail. A red panel lamp signals an over-temperature situation.

Models MPA-271, MPB-271, and MPC-271, 240 volt ovens carry CE label.

Circulation Diagram (Front View)



MP Series

ADDITIONAL EQUIPMENT AVAILABLE

- **Additional Shelves**, 25 lbs distributed load per shelf, 75 lbs maximum oven load, specify oven model when ordering.
- **Programmable Temperature Controller**, microprocessor based, digital indicating, 4 program with 6 steps each, in lieu of standard controller.... not available on 240 volt ovensMPTC



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