

## ◆ PBC and PNC Burn-In Ovens

### Designed for multiple burn-in applications



Despatch burn-in ovens are engineered specifically for applications such as high dissipation forward bias, high-temperature reverse bias, dynamic and static burn-in of IC, RAM, ROM, microprocessors and other semiconductor devices.

### FEATURES AT A GLANCE

- ◆ High volume recirculating fans maintain consistent, uniform temperatures required by MIL STD 883D while removing heat generated by the load.
- ◆ Rear wall is easily disassembled and removed to simplify fixturing of power leads or feed-through boards into oven.
- ◆ Traditional horizontal loading. Side to side horizontal airflow provides uniform atmosphere flow across horizontally positioned loads.
- ◆ Over-temperature protection control monitors maximum temperature and shuts off heater if setpoint is exceeded.
- ◆ Easy-to-use temperature controller featuring user-friendly arrow buttons for changing setpoints. The controller also contains programmable EZ-Keys enabling simple one-touch operation of repetitive user activities.
- ◆ Controller communication includes EIA 232/485 Modbus® RTU and supports network connectivity to a PC or PLC.

### MODEL OPTIONS

- ◆ Two sizes: 18 or 32 cu ft
- ◆ Maximum temperature of 260°C (500°F)
- ◆ High Dissipation Capacity
- ◆ Air or nitrogen atmosphere





## OPTIONS

- ◆ Power supply cabinet is a standard E.I.A. 19" (48 cm) cabinet and aesthetically matches the oven. 78" (198 cm) usable opening height.
- ◆ Increased dissipation allows increase in live load capacity without risking over temperature.
- ◆ Circular chart recorder provides seven-day permanent record of process temperatures.
- ◆ Automatic damper controls amount of incoming fresh air while saving energy.
- ◆ Rapid cool-down provides faster cycle times.
- ◆ Back up/Redundant Hi-Limit to provide temperature protection in the event the primary device fails.
- ◆ Door switch to de-energize the heater and fan when the chamber access door is opened.
- ◆ Access port at rear of oven for test connections.
- ◆ Casters on bottom of unit for mobility.

BURN-IN OVENS	PBC2-18	PBC2-32	PNC2-18
<b>SPECIFICATIONS</b>			
Atmosphere	Air	Air	Nitrogen
Capacity in cubic feet (liters)	18 (510)	32 (906)	18 (510)
Electrical	208, 230, 460/3/60 220, 380, 415/3/50	208, 230, 460/3/60 220, 380, 415/3/50	208, 230, 460/3/60 220, 380, 415/3/50
Time to temperature (25°C-125°C)	6 min.	20 min.	7 min.
Recovery time to 125°C (door open 1 min.)	1 min.	3 min.	1 min. to 150°C
Temperature uniformity @ 125°C (empty oven)	±1°C	±1°C	±1°C at 150°C
Operating range <sup>1</sup>	50°C - 260°C	50°C - 260°C	60°C - 260°C
Recirculating fan CFM	2600 (1227 LPS) (3200 option (1510 LPS))	2600 (1227 LPS) (3200 option (1510 LPS))	2600 (1227 LPS)
Recirculating fan motor (HP)	3 (5 option)	3 (5 option)	3
Heater (kW)	12	16	12
Maximum dissipation <sup>2,3</sup> @ 125°C	6500 watts (7500 option)	6500 watts (7500 option)	5000 watts at 150°C
Exhaust outlet size	8 in (20.3 cm) diameter	8 in (20.3 cm) diameter	2.75 x 8.25 in (7 x 21 cm)
Approximate chamber dimensions	26 x 24 x 48 in 66 x 61 x 122 cm	48 x 24 x 48 in 122 x 61 x 122 cm	26 x 24 x 48 in 66 x 61 x 122 cm
Outside dimensions	45 x 35 x 87 in 114 x 89 x 221 cm	67 x 35 x 87 in 170 x 89 x 221 cm	45 x 35 x 87 in 114 x 89 x 221 cm
Shipping weight (lbs/kg)	1425 lbs / 646 kg	1850 lbs / 839 kg	1625 lbs / 737 kg

### Notes:

<sup>1</sup> Assumes ambient of 25°C. Minimum temperature will be slightly higher with increased recirculating fan option.

<sup>2</sup> Dissipation is reduced by 17% on 50 Hz. (Option available for full rated dissipation on PBC models).

<sup>3</sup> Live load evenly distributed provides maximum of 6°C mean temperature gradient.

## SERVICE AND TECHNICAL SUPPORT

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