

### ◆ 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.
- ◆ Ethernet connectivity with a PC or PLC using the Modbus® TCP/IP communication protocol.

#### MODEL OPTIONS

- ◆ Maximum temperature of 260°C (500°F)
- ◆ High Dissipation Capacity
- ◆ Air or nitrogen atmosphere

**PBC ships in 6 weeks**





## 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.
- ◆ 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.
- ◆ Serial RS-485 (2-wire) connectivity with a PC or PLC using the Modbus® RTU communication protocol, instead of Ethernet and Modbus® TCP/IP

## BURN-IN OVENS

SPECIFICATIONS	PBC2-18	PNC2-18
Atmosphere	Air	Nitrogen
Capacity in cubic feet (liters)	18 (510)	18 (510)
Electrical	208, 230, 480/3/60 220, 380, 415/3/50	208, 230, 480/3/60 220, 380, 415/3/50
Time to temperature (25°C-125°C)	6 min.	7 min.
Recovery time to 125°C (door open 1 min.)	1 min.	1 min. to 150°C
Temperature uniformity @ 125°C (empty oven)	±1°C	±1°C at 150°C
Operating range	50°C - 260°C	60°C - 260°C
Recirculating fan CFM	2600 (1227 LPS) (3200 option (1510 LPS))	2600 (1227 LPS)
Recirculating fan motor (HP)	3 (5 option)	3
Heater (kW)	12	12
Maximum dissipation	6500 watts at 125°C (7500 option)	>3000 watts at 125°C 5000 watts at 150°C
Exhaust outlet size	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	26 x 24 x 48 in 66 x 61 x 122 cm
Outside dimensions (with 6 inch casters)	45 x 35 x 94.5 in 114 x 89 x 240 cm	45 x 35 x 87 in 114 x 89 x 221 cm
Approximate domestic shipping weight (export adds weight)	1425 lbs / 646 kg	1625 lbs / 737 kg

### Notes:

1) Assumes ambient of 25°C. Minimum temperature will be slightly higher with increased recirculating fan option.

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

3) Live load evenly distributed provides maximum of 6°C mean temperature gradient.

## SERVICE AND TECHNICAL SUPPORT

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