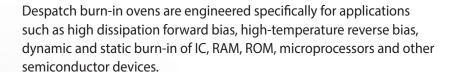
Thermal Processing Technology

ITW EAE

PBC and PNC Burn-In Ovens

Designed for multiple burn-in applications





- 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

- 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	PNC2-18
SPECIFICATIONS		
Atmosphere	Air	Nitrogen
Capacity in cubic feet (liters)	18 (510)	18 (510)
Electrical	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.	7 min.
Recovery time to 125°C (door open 1 min.)	1 min.	1 min. to 150°C
Temperature uniformity @ 125°C (empty oven)	±1ºC	±1°C at 150°C
Operating range1	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 dissipation2,3 @ 125°C	6500 watts (7500 option)	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	45 x 35 x 87 in 114 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	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).

SERVICE AND TECHNICAL SUPPORT

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³ Live load evenly distributed provides maximum of 6℃ mean temperature gradient.