

◆ RBC Stackable Burn-In Chambers

Dual chambers equate to maximum flexibility



Despatch's stackable burn-in chambers offer maximum flexibility for small lot qualification testing, burn-in, reliability testing, and research and development.

Flexibility - The stackable burn-in chambers allow users to run concurrent tests utilizing different temperatures or different cycle times. They are ideal for qualification testing with small lots, because a new test may be started on the second chamber while the first test is still in progress. This chamber configuration is designed to maximize throughput and equipment utilization.

Small Footprint - The chamber may be placed on a benchtop, or stacked to conserve valuable floorspace. The small footprint makes these chambers ideal for test labs or production areas where space is at a premium.

Easy to use Controls - Standard digital controls regulate temperatures within tight tolerances and provide high limit protection. For more advanced control choose the optional Protocol 3™ microprocessor-based temperature and hi-limit controller with large LCD display and real time clock for auto start capability. Protocol 3™ features three operating modes for quick and easy operation: Manual mode, Timer mode and Profile mode. The data-logging functionality enables reporting and analyzing and data files can be exported via the controller's USB port. Modbus RS485 communications are included for easy data access.

Thermal Dissipation - High volume recirculation fans maintain consistent, uniform temperatures required by MIL STD 883 while removing heat generated by the load. Despatch's stackable burn-in chambers are ideal for high dissipation applications.

FEATURES AT A GLANCE

- ◆ Stackable configuration
- ◆ High dissipation capacity
- ◆ Maximum temperature: 260°C
- ◆ High volume horizontal recirculating airflow
- ◆ Automatic modulation damper for energy efficiency

Shown with optional Protocol 3 controller



STACKABLE BURN-IN OVENS RBC1-50

PHYSICAL SPECIFICATIONS

Model	Air	Nitrogen
Nominal Chamber Dimensions (width x depth x height)	18 x 25 x 18 in 46 x 64 x 46 cm	18 x 25 x 18 in 46 x 64 x 46 cm
Capacity in cubic feet (liters)	4.7 (133)	4.7 (133)
Overall Size (width x depth x height)	46 x 36 x 32 in 117 x 91 x 81 cm	46 x 36 x 32 in 117 x 91 x 81 cm
Electrical	208V, 1-phase, 50/60HZ, 21.7 AMPs 220-240V, 1-phase, 50/60HZ, 23.5 AMPs 380V, 3-phase, 50HZ, 9 AMPs 480V, 3-phase, 60Hz, 9 AMPs	
1 HP Recirculating fan	600 CFM (283 LPS)	600 CFM (283 LPS)
Approximate Net weight	470 lbs / 213 kg	470 lbs / 213 kg
Approximate domestic shipping weight (export adds weight)	600 lbs / 272 kg	600 lbs / 272 kg

FUNCTIONAL SPECIFICATIONS

Operating range ¹		50°C - 260°C	50°C - 260°C
Maximum dissipation ²	@ 80°C @ 125°C @ 150°C	800 watts 1300 watts 1400 watts	800 watts 1300 watts 1400 watts
Maximum mean temperature gradient (with evenly distributed live load)		4°C @ 80°C 6°C @ 125°C 6°C @ 150°C	4°C @ 80°C 6°C @ 125°C 6°C @ 150°C
Temperature uniformity (empty oven)	@ 125°C @ 260°C	< ±1°C ±1°C	< ±1°C ±1°C
Control stability		± 0.10C/0C rise in ambient temperature	
Time to temperature (240V) ³	25-80°C 25-125°C 25-150°C 25-260°C	4 min. 10 min. 14 min. 34 min.	4 min. 10 min. 14 min. 30 min.
Cool down 125°C to 60°C		40 min.	11 min.
Recovery time to 125°C (door open 1 min.)		> 1 min.	> 1 min.

Notes:

¹ Assumes ambient of 25°C

² Dissipation is reduced by 17% on 50 Hz

³ Time to temperature slightly longer for voltages lower than 240V

STANDARD FEATURES

- ◆ Removable rear-wall for fixturing
- ◆ High limit over-temperature protection
- ◆ Digital control with 3/4" (1.9cm) LED display
- ◆ Modbus communications connection (RS485) for remote monitoring and recording
- ◆ High limit over temperature protection
- ◆ Airflow switch protects against fan failure
- ◆ Stainless steel interior
- ◆ Baked enamel exterior
- ◆ Easy to service
- ◆ Scratch resistant

OPTIONS

- ◆ Nitrogen injection capability for minimizing oxidation at high temperatures includes LN2 for rapid cooling
- ◆ Protocol 3™ control with large LCD display, integrated data logging capabilities and USB port for simple oven set-up and data export
- ◆ Ethernet communication connection
- ◆ Casters with brake
- ◆ Redundant hi-limit
- ◆ Chart recorder
- ◆ CE compliant
- ◆ Stacking hardware

SERVICE AND TECHNICAL SUPPORT

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