

# INTRODUCTION

A Despatch LPB series is a precise, high quality, variable percent relative humidity steam pressure chamber. It features digital programmable process temperature and humidity control for accurate control of test conditions. All models feature electropolished 316 stainless steel vessel interior, microprocessor-based programmer/controller, digital pressure indicator and test phase lights.

The Despatch LPB series test chambers are available with option of either saturated (100% RH) or variable % RH. These chambers provide all the feature you need to accomplish highly accelerated stress testing (HAST) of electronic components. Studies have verified that test times to achieve a given failure rate can be dramatically reduced with high relative humidity and temperature. These extreme conditions can be achieved only with pressures exceeding atmospheric, as in the LPB series test chambers.

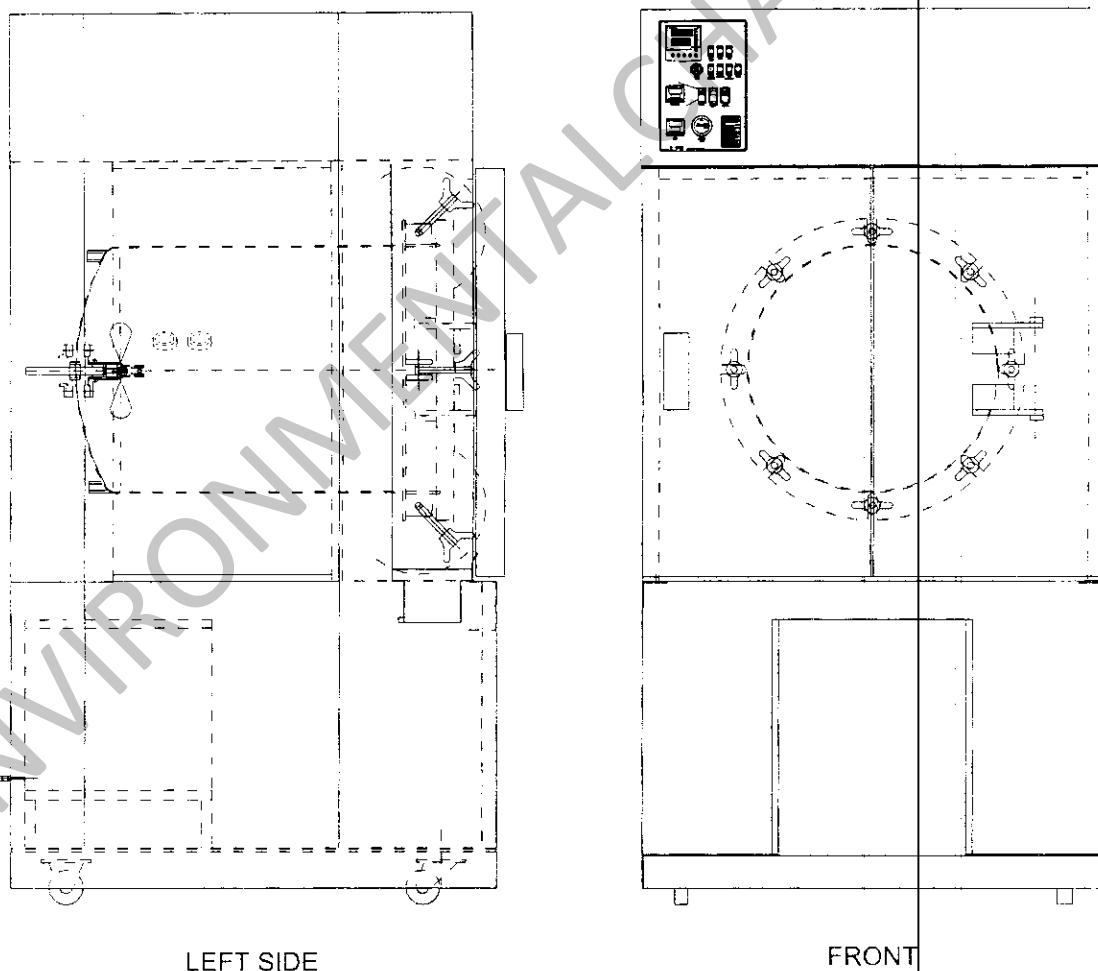


Figure 1. Side and Front Views of Chamber

# CHAMBER SPECIFICATIONS

		LPB1-40V
Interior Volume		4.5ft <sup>3</sup> (0.13M <sup>3</sup> )
Inside Dimensions (Diameter x Depth)		22.5 in. x 24 in. (57.2 cm x 61.0 cm)
Vessel Door Opening		23.5 in. (59.7 cm)
Overall Dimensions (Width x Depth x Height)		44 in. x 46 in. x 86 in. (97 cm x 112 cm x 218 cm)
Temperature Range <sub>1</sub>		105° C - 166° C (221° F - 331° F)
Humidity Range <sub>2</sub>		60 - 98% RH
Maximum Pressure		6.3 Kg/CM <sup>2</sup> G (90 PSIG)
Voltage <sub>3</sub>	208	V - 1 ph - 60 Hz or 1
Amperage		37 Amps
Approx. Shipping Weight		1,100 Lbs (500 Kg)
Average Time to Temperature 25° C - 130° C 25° C - 166° C		40 min. (80% RH) 61 min. (100% RH)
Control Accuracy		+/- 0.1 of span
Control Stability		+/- 0.1° C
Temperature Uniformity <sub>4</sub>		+/- 0.5° C
Humidity Uniformity <sub>4</sub>		+/- 0.8% RH
Max Live Load <sub>5</sub> (166° C/50%)		950 Watts
Live Load eg. <sub>5</sub> (135° C/85% RH)		300 Watts

- 1 Below 100° C option is available.
- 2 Limited by a 16 PSIA vapor pressure. Extension of range to 100% is possible with a special "saturated circuit" modification.
- 3 Units will operate satisfactorily on 208V with a 25% reduction in heater capacity. 208V boost option is available.
- 4 Empty vessel.
- 5 Dissipation depends on operating conditions. Specified values are at 50%.