

## Lab Conditioner™

### 1. INTRODUCTION

In Textile testing, all the fabric samples should be conditioned keeping the sample in standard atmospheric condition ( $22^{\circ}\pm 2^{\circ}$  C Temperature &  $65\%\pm 5\%$  RH) prior to perform the test to get the accurate test result. Paramount Lab Conditioner™ is a simple & convenient equipment to maintain the standard atmospheric condition for conditioning the sample.

### 2. EQUIPMENT DETAILS

Paramount Lab Conditioner™ has a test chamber of Double walled construction. The inner walls are made of special grade of 316 Stainless Steel sheet and outer walls of mild steel sheet. The chamber is fitted with two adjustable perforated shelves for keeping the Test Specimen. The chamber is cooled electrically with the help of Compressor Cooling coils placed in ribs, on the sides of the chamber, Humidity to be increase with the help of heating water tank placed in the bottom side of the chamber. An air-circulating Fan with heater is provided on top of the chamber for even temperature & Humidity distribution. The temperature inside the test chamber is controlled with the help of a DIGITAL TEMPERATURE-INDICATOR-CUM-CONTROLLER. A CWF tube light is also provided in the Chamber to Seen the samples during conditioning.

#### SALIENT FEATURES

- Specially designed to condition samples before & after testing.
- Ambient conditioning condition, Temperature  $22\pm 2^{\circ}$ C & humidity 65% can be easily attended.
- Transparent viewing window to see the sample.
- One CWF tube light fitted inside the chamber for viewing the sample.
- Caster wheel at base for easy movement.
- Three perforated trays supplied with the equipment to keep the samples properly in side the chamber.
- Special handle with lock for user convenience.
- Supplied with calibration & inspection certificates.

#### Unpack Your Lab Conditioner™ and ensure that you have the following unit :

Main Unit (Complete Inside Made of SS 316 Grade)	:	01 No.
S.Steel Shelves (Made of SS 316 Grade)	:	03 Nos.
This User's Manual	:	01 No.
Inspection & Conformance Certificate	:	01 No.
Calibration Certificates	:	01 No.



#### TECHNICAL DETAILS

Power Supply	: 230 Volt Ac, 50 Hz, Single Phase
Chamber Size	: 600 x 600 x 600
Capacity	: 8.0 Cubic Feet / 225 Ltr.
Temperature Range	: $10 - 50^{\circ}$ C + $1^{\circ}$ C
Humidity	: $50 - 90\%$ + 3 %
Standard Temperature for Textile	: $22\pm 2^{\circ}$ C
Standard Humidity for Textile	: $65\% + 5\%$
Trey Size	: 600 x 600 mm
Overall Dimensions of the unit	: 800 (L) x 800 (W) x 1450 (H) mm
	31.5 (L) x 31.5 (W) x 57 (H) Inches.
Net Weight of the unit	: 120 Kg. (440 lbs).

#### RELATED STANDARDS

ASTM D 1776 - 04



**AATCC**  
CORPORATE MEMBER



**Patron Member**



**Member Bureau of Indian Standards**