



EIE INSTRUMENTS PVT. LTD.
(An ISO 9001:2015 Certified Company)

LIME REACTIVITY CABINET-REFRIGERATED-INNER S.S.-90X60X60 CM



Construction Details :

1. CE Certified
2. Double wall construction
3. Interior fabricated from high grade stainless steel (S.S.304).
4. Exterior body made of Mild steel material - which is duly powder coated in attractive shades
5. Full size polycarbonate sheet inner door to inspect samples without affecting the chamber temperature.
6. Properties of polycarbonate sheet door (Unbreakable, Un-scratchable, High temperature resistant, Robust, Air tight and Transparent)
7. Double walled metal door with sponge - type silicon gasket for air-tight sealing
8. Electrical wiring as per CE Compliances
9. Chamber illumination is accomplished by Fluorescent light with door switch.
10. Cord wire duly tested and inspected with stress factor as per CE standard
11. Electric Motor located at the back side of unit, protected with safety cover to avoid accident
12. Standard motor of reputed companies - such as CG/GODREJ/GE/Equivalent Make
13. User friendly and tactfully designed chamber door and locking mechanism
14. Aesthetic outer appearance and high quality

Insulation :

70mm polyurethane insulation (PUF)/ fiberboard to ensure better insulation and less leakage of temperature or RH from inner body to the surroundings.

Air Circulation :

Temperature is maintained by a quiet running blower circulation air throughout the chamber. Forced air circulated vertically down and re circulated throughout the chamber for uniform temperature and humidity.

Humidity :

Humidity created by steam injection method. The boiler tank is fitted in the back side of the chamber for better servicing, Electromagnetic switch for controlling the wet heater from burning off if water level is not adequate. Float valve provided to control water level in the boiler tank.

Heating & Cooling System :

Long lasting SS tubular heaters used as heating element. The stainless steel fins provided to ensure better heat transfer. Hermetically sealed compressor CFC free compressor (134 A gas) coupled with evaporation coil and condenser.

Trays for samples :

1. Removable perforated trays
2. Manufactured from strong S.S. Rods to with-stand heavy load of test specimens
3. Such trays also facilitates better air circulation
4. The distance between trays will be 15-20 centimeters

**Control :**

Microprocessor based Digital Auto-Tune PID temperature and direct RH digital controller. Humidity directly measured in % RH by electronic sensor.

Temperature Range : 10 °C to 60 °C, Accuracy : ± 0.5 °C

Humidity Range : 40 % RH to 90 % RH, Accuracy : ± 2 % RH

Safety Features :

1. High temperature safety cut off
2. Low water level boiler cut off
3. Electrical overload cut off
4. Time delay for compressor switch ON
5. Electrical circuit breaker

Documentation :

Supplied with calibration Report and Instruction Manual.

Warranty : Unconditional warranty against faulty workmanship for 1 year at site from the date of installation of the equipment.

Pre installation mandatory requirement : (Guarantee void in case of non compliance)

1. Distilled water OR DM water continuous supply with tap for boiler input of 3/8" BSP at 3 feet height.
2. Room temperature around machine preferably at 25 °C with air conditioning or a well ventilated room with exhaust fan. However surrounding temperature should not exceed 30 °C .
3. Stabilized Input Voltage of 230 Volt, 50 Hz, 20 Amps, AC Supply. Use of Servo Controlled Stabilizer is recommended.
4. Water drain line with 3/8" nozzle to be provided at floor level.
5. Recommended to install the chamber 2 ft. away from the back wall and 1 ft. from all sides
6. UPS for control system upto 1 KVA

Technical Specification

•Chamber Size : 90 x 60 x 60 cm (Inner chamber)

•Chamber volume	: 324 Liters
•Inner chamber material	: Stainless Steel S.S. - 304
•Temperature Range	: 10° C to 60° C
•Temperature Accuracy	: $\pm 0.5^{\circ}\text{C}$ or better
•Temperature Resolution	: 0.1°C
•Temperature Uniformity	: $\pm 2^{\circ}\text{C}$
•Humidity Range	: 40% RH to 90% RH
•Humidity Accuracy	: $\pm 3\%$ RH
•Humidity Uniformity	: $\pm 5\%$ RH
•Power Consumption	: 2.5 KW
•Weight (Approx.)	: 210 kg
•Overall Dimensions	: 1450 X 920 X 1100 mm (H X W X D)

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