



SUZUKI INSTRUMENTS

Think Reliability. Come To Us

HUMIDITY CHAMBER - REFRIGERATED - COMPLETE S.S.- 125X60X60 CM-

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Double Walled, Inner and outer made of SS 304, 65 mm thick PUF Insulation; Full length inner glass door for clear inner view, Outer door with Magnetic Gasket & Lock. Forced air circulation for uniform temperature throughout the chamber. Dual preset electronic Digital Temperature Controller Cum Indicator. Temperature Range : 10°C to 60°C \pm 0.5°C; Humidity Range from atmospheric humidity to 90% RH Controlled by Digital Display Controller (Direct RH Indicator) \pm 5% RH, Working on 230 Volts, AC, single phase. Detailed specification as follows:

Construction Details:

- Fulfills storage conditions of general laboratory requirements
- Double wall construction
- **Interior fabricated from high grade stainless steel (S.S.304).**
- **Exterior body fabricated from high grade stainless steel (S.S.304).**
- Full size polycarbonate sheet inner door to inspect samples without affecting the chamber temperature.
- Properties of polycarbonate sheet door (**Unbreakable, Un-scratchable, High temperature resistant, Robust, Air tight and Transparent**)
- Double walled metal door with sponge - type silicon gasket for air-tight sealing
- Electrical wiring as per CE Compliances
- Chamber illumination is accomplished by Fluorescent light/LED Light with door switch.
- Cord wire duly tested and inspected with stress factor as per CE standard
- Electric Motor located at the back side of unit, protected with safety cover to avoid accident
- Standard motor of reputed make - such as MARATHON/GE/CG/Equivalent Make
- User friendly and tactfully designed chamber door and locking mechanism
- 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.

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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:

- Removable Wire Mesh/Perforated/S.S. Rod trays
- Capable to with-stand heavy load of test specimens
- Such trays also facilitates better air circulation
- 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.

Safety Features:

- High temperature safety cut off
- Low water level boiler cut off
- Electrical overload cut off
- Time delay for compressor switch ON
- Electrical circuit breaker

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Warranty:

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

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

Note

For these range of Equipment, the installation and demonstration at site by our technician is a prerequisite for availing free servicing during the guarantee period of 12 months from the date of sale. On site demonstration is essential and mandatory to avail warranty claim. Warranty void in case on site demonstration not availed.

Technical Specification

•Chamber Size	: 125 x 60 x 60 cm (Inner chamber)
•Chamber volume	: 450 Liters
•Inner chamber	: Stainless Steel S.S. - 304 Grade
•Exterior body	: Stainless Steel S.S. - 304 Grade
•No of trays	: 04 Shelves
•Temperature Range	: 10° C to 60° C
•Temperature Accuracy	: ± 0.5°C or better
•Temperature Resolution	: 0.1° C
•Temperature Uniformity	: ± 2° C
•Temperature Measurement	: Through Pt - 100 type RTD sensor
•No. of Temperature Sensors	: 01 number
•Humidity Range	: 40% RH to 90% RH
•Humidity Accuracy	: ± 3% RH
•Humidity Uniformity	: ± 5% RH
•Humidity Measurement	: Through Capacitance type RH Sensor
•No. of Rh Sensors	: 01 number
•Chamber Illumination	: With 1 LED lights for lesser power consumption

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