



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 95% RH Controlled by Digital Display Controller (Direct RH Indicator)  $\pm$  3% RH, working on 230 V AC single phase.

#### Construction Details:

- CE Certified
- Designed as per ICH guidelines to meet, WHO and USFDA requirement
- Fulfills storage conditions of 25° C - 60% RH, 40° C - 75% RH, 30° C - 65% RH, 25° C - 40% RH, 30° C - 35% RH
- Double wall construction
- Interior fabricated from high grade stainless steel (S.S. - 316)
- Exterior body is also fabricated from High grade stainless steel material - (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 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 companies - such as CG/GODREJ/GE/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

Note: Specifications are subject to change.

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:**

Manufactured from strong S.S. Rods 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

**Documentation:**

Supplied with IQ, OQ, PQ, DQ, Documents as per USFDA Guidelines, Validation 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):**

- Distilled water OR DM water continuous supply with tap for boiler input of 3/8" BSP at 3 feet height.
- 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 .
- 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 ft. away from the back wall and 1 ft. 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.

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Technical Specification	
Chamber Size	45 x 45 x 45 cm (Inner chamber)
Chamber volume	92 Liters
Inner chamber	Stainless steel S.S. - 316 Grade
Exterior body	Stainless steel S.S. - 304 Grade
No of trays	02 Shelves
Temperature Range	10° C to 70° 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	± 2% RH
Humidity Uniformity	± 3% RH
Humidity Measurement	Through Capacitance type RH Sensor
No. of Rh Sensors	01 number
Chamber Illumination	With 1 LED lights for lesser power consumption
Mobility	On castor wheels
Power Consumption	1.5 KW
Overall Dimensions	800 X 990 X 1300 (L X W X D) mm

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