



# **HUMIDITY CABINET / ENVIRONMENTAL CHAMBER**

## **CODE: 12017**

### **APPLICATIONS:**

PRODUCT CONDITIONING, PERFORMANCE TESTING, ENVIRONMENTAL SIMULATION, STORAGE, EVALUATION, SEED GERMINATION, etc.,

USED IN : PHARMACEUTICALS, COSMETICS INDUSTRY, DEFENCE AND AEROSPACE, CHEMICAL INDUSTRY, PAINT COATING & PRINTING INDUSTRY, RUBBER INDUSTRY, PLASTIC INDUSTRY, PACKAGING INDUSTRY ETC.

These chambers are available in two models, Basic and Refrigerated

### **STANDARD FEATURES :**

Chamber Design	: Double / Triple Walled construction.
Inner Chamber	: Made of thick Gauge, Matt finished SS 304/316.
Outer Body	: CR sheet, Powder coated / S.S. Matt finish.
Door	: With Double glass or Vacuum sealed View window.
Lock	: Latch type lock & Polymide Handle.
Controller	: Programmable Microprocessor based temperature cum humidity controller.
Sensor Type	: RTD sensor (wet and dry principle).
Trays	: Adjustable Rod mesh or Perforated Trays.
Illumination	: Internal illumination provided.

Air Circulation : Convectonal Air flow by dynamically balanced SS blower with continuous Duty TEFC motor at the rear for uniformity in the chamber.

Insulation : Low 'K' factor Thick Ceramic Wool/Puff insulation

Heaters : Special SS air heaters.

Gasket : Silicone Gasket for leak proof operations.

Wheels : Castor wheels for easy mobility.

Refrigeration : CFC free air cooled compressor system.





Temp. Range	: Ambient to 65°C (BASIC MODEL) : 10°C to 65°C (REFRIGERATED MODEL) : -10°C to 130°C (REFRIGERATED MODEL) : -30°C to 130°C (REFRIGERATED MODEL)
Temp. Resolution	: 0.1°C
Accuracy	: ± 1°C
Humidity Range	: ± 5% above amb. to 98% RH (BASIC MODEL) : 30% TO 98% RH ( <b>OPTIONAL</b> with REFRIGERATED MODEL)
Humidity Resolution	: 0.1% RH
Accuracy	: ± 5%
Operation	: 230V 50Hz, single phase/3 phase.

<b>MODEL</b>	<b>CODE</b>	<b>SIZE</b>	<b>TRAYS</b>
HC- 80	12017-01	350x380x600mm	2
HC-165	12017-02	500x380x900mm	2
HC-265	12017-03	600x500x900mm	2
HC-330	12017-04	600X550X1000mm	3
HC-500	12017-05	600X850X1000mm	3
HC-1000	12017-06	1000x1000x1000mm	3

**\* CUSTOM BUILT SIZES AVAILABLE ON REQUEST**

## **OPTIONAL ACCESSORIES**

- \* PROGRAMMABLE DIGITAL TIMER.
- \* DATA RECORDING SYSTEM (USB BASED)
- \* AUTOMATIC BOILER WATER LEVEL CONTROL & ALARM
- \* AUTOMATIC WATER LEVEL CONTROL FOR WET BULB SENSOR RESERVOIR
- \* FULLY INTEGRATED CONTROL SYSTEM WITH TOUCH SCREEN BASED USER INTERFACE, ETHERNET CONNECTIVITY, REMOTE DIAGNOSTICS AND 100% GLP COMPLIANCE
- \* SPARE TRAYS/RACKS
- \* ACCESS PORT AT THE SIDE (50mm).
- \* DE-HUMIDIFICATION SYSTEM FOR RH UPTO 30%
- \* DOOR LOCK
- \* DOOR OPEN SENSOR





**DESIGNED & MANUFACTURED BY:**



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**\* Products & Design Subject To Change Without Prior Notice.**