



DE-HUMIDIFIER (VERTICAL / HORIZONTAL)

AN ISO 9001 : 2015 CERTIFIED CO. & CE MARK PRODUCT



Construction :

Heavy gauge construction of CRCA sheet or AISI Stainless Steel. Robust angular structure, removable casing panels makes all parts easily accessible for adjustments & service when required.

Working of the Environment Controller (De-humidifier.)

The equipment is based on refrigeration principle. It removes the moisture content of humid air in an enclosed room & condenses the moisture of the humid air into water, which continuously drops into a tray. No chemicals or dehydrating substances are used, Relative Humidity can be maintained depending upon the cubic feet volume, the temp. & no of occupants in the room, the walls & ceilings should be vapour proof to minimize infiltration of moisture into the room.

Application

These equipments are capable of maintaining Relative Humidity of 35% RH to 45% RH & are mainly used in Pharmaceutical Laboratories .Capsules, Strip Packing, Tablet Section, Packing rooms, Processing industries, Printing & Lithography , Photographic Industries, Communication equipment rooms, Computer & data storage various other purpose.

Refrigeration System :

It is fitted with a hermetically sealed compressors to operate on 230 volts +1-5% A. C, Single phase 50Hz, with heat exchanging coil, water condensing coil & fan motor assembly. The unit is mounted on a trolley with a water collection tank at the bottom.

Temp. Range :

Humidity Range : 35% RH

Accuracy : +/-3% RH

Dimensions

Horizontal Model overall Size : 30"H x 18"W x 18"D

Vertical Model overall Size : 42"H x 22"W x 24"D

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Certification :

ISO 9001:2015 Certified Co. D&B registered & CE mark product.

Calibration & validation certificates traceable to NABL / ERTL accredited labs.

Documentation :

To comply with the documentation requirements, we provide IQ, OQ & PQ protocols to be executed before taking the chamber in to for regular use, and support the supply with the following documents with the detail operational and service manual.

Standard Operating Procedure (SOP)

Operational Manual for Controller

IQ,PQ,OQ protocols certificate.

Calibration certificate of all controlling modules with traceability.

Certificate of MOC.

Test Report of chamber prior to supply with mapping certificate. wiring diagram for ease of service maintenance.

The following are the required conditions for Installation of Environmental controller (De-Humidifier).

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MODEL NO : DE-19	CAPACITY	ROOM VOLUME	NO OF OCCUPANTS IN THE ROOM
A	1.0 Tonne	2500 cu.ft./ 250 sq.ft	5
B	1.5 Tonne	3750 cu .ft./ 375 sq.ft	7
C	2.0 Tonne	5000 cu.ft./ 500 sq.ft	9
D	2.5 Tonne	5750 cu.ft./ 575 sq.ft	11
E	3.0 Tonne	6500 cu.ft./ 650 sq.ft	13

Room Temperature :

When operating the equipment the room temp, will tend to rise on account of it moisture removal latent heat load & the electrical motor operating in the equipment. A sufficient capacity Air Conditioner given below to be installed along with the Environmental Controller (De-Humidifier) . The total heat load thus added to be room is given under.

Environmental Controller (De-Humidifiers) Capacity	Approx. heat load added to to room.	Air Condition
1.0 Tonne	12000 BTU.	1 Tonne
1.5 Tonne	18000 BTU.	1.5 Tonne
2.0 Tonne	24000 BTU.	2 Tonne
2.5 Tonne	32000 BTU.	3 Tonne
3.0 Tonne	36000 BTU.	3 Tonne

Room Temp. is maintained at	RH of the Room (approx)
70C F or higher	45%
74C F or higher	40%
81C F or higher	45%

RH Conditions :

A few of the typical temperatures & the corresponding Relative Humidity conditions attainable in a room are given here under