



# DE-HUMIDIFIER CUM HUMIDIFIER

## ENVIRONMENTAL CONTROLLER

### (VERTICAL / HORIZONTAL)

#### [NON-GMP MODEL]

AN ISO 9001 : 2015 / 14001 : 2015 / WHO-GMP CERTIFIED CO. & CE MARK PRODUCT

**Model No : SRL / DE-19**

#### Construction :

Heavy gauge construction of inner & outer is made of CRCA powder coated. 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.

#### Humidification :

Boiler tank with water reservoir, with low water level cut off.



#### 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 :

MSME Award For Best Manufacturing Practices 2023.  
ISO 9001:2015 Certified Co. D&B registered & CE mark product.  
ISO 14001:2015 & WHO-GMP  
ISO 45001:2018 & ISO/IEC 17025: 2017  
NSIC & MSME registered / ROHS Compliance / UL Compliance

### 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 traceable to NABL / ERTL accredited labs.  
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).

### VERTICAL / HORIZONTAL

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.	2.5 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

Due to continuos development & improvements in design, we reserve the right to change the specification without notice.