



CASILICA

DEHUMIDIFIERS

Tailor-made for modern needs



From the house of **HUMIDIN**



WORLD CLASS ENGINEERING FOR DEHUMIDIFICATION

Casilica Dehumidifier is a Product for today's time. Aimed at catering to burgeoning pharmaceuticals, coldroom, electronics, leather, seed, defence etc., Casilica offers world-class engineering wedded to our core value - customer satisfaction. After all we are the house of Humidin, a brand that enjoys an enviable position in customer mind-space.

Casilica boasts of state-of-the-art technology, customized solutions, a modern plant & a talented team of qualified professionals who sets an exacting standards of quality for themselves.

We stands for the same quality & customer satisfaction that are instrumental in bringing Humidin on par with what the world calls the world class.



CASILICA DEHUMIDIFIERS

Dehumidifiers, as the name implies, are designed and manufactured to remove moisture from the air.

CASILICA dehumidifiers can be installed as stand alone unit to control humidity in any space requiring humidity control, it can be completely packaged as per the needs & requirement. The single unit can have inbuilt Precooling section to cater all fresh air needs, Post cooling section for temperature control & moisture control, filtration requirements, as complete solution. The units can be designed with Pre/after filters, to handle large airflow requirements & in built condensing units (as an option)

Hence, CASILICA dehumidifiers are designed for complete air handling & environmental control.

DEHUMIDIFIER FEATURES

- Very high moisture removal capacity
- Leak Proof and air tight construction
- Easy to package
- Auto/Manual selector switch
- PLC based microprocessor controller
- Control panel designed for total safety of the equipment
- All the features of control panel are user friendly
- EU3 filters at the inlet
- Multiple options of reactivation heat source – Electrical, Steam, Gas fired (direct/indirect), Thermic fluid etc
- Combination of different reactivation heat sources available e.g. steam + electric
- Insulated Process & reactivation airflow sectors
- Special seals to avoid any inter-compartmental leakages



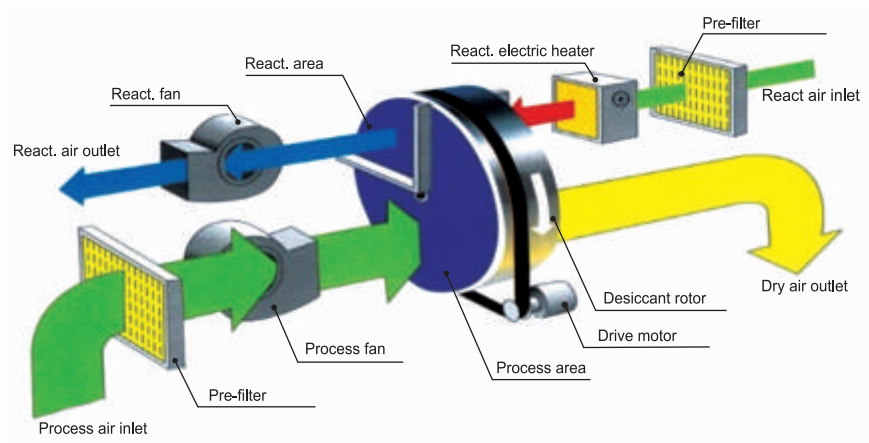
DEHUMIDIFIER ROTORS

Rotor, the heart of the dehumidifier, has two sectors: Process (supply) and Reactivation (regeneration), between which it rotates. The two sectors of the rotors are in the ratio of 70:30 respectively as standard configuration. Rotors are available in a variety of configurations to meet specific air drying or humidity control requirements.



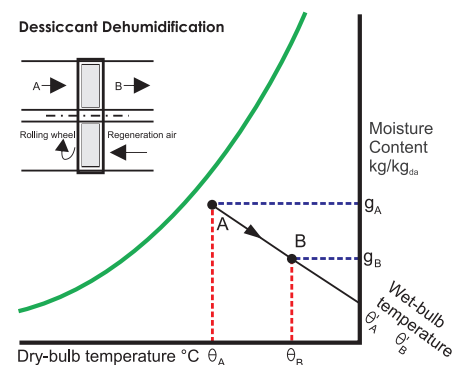
HOW IT WORKS?

Casilica rotor rotates between two sectors i.e. process and reactivation sector & has two air streams, process & reactivation. Both the air streams has independent fans. On process side the moisture is removed from the air (Process Air Inlet) by the desiccant (rotor media). The same moisture, absorbed by the rotor, is again removed from the rotor, when it rotates and goes to the other side that is reactivation sector, by a another air stream (Reactivation Air Inlet) with a heating arrangement. The rotor rotates slowly between two airstreams with the help of a small motor through a belt/chain drive arrangement. Please refer to the principal of operation in the below picture. The heating arrangement can be electric, steam, thermic fluid, gas etc. depends upon the utility available at site. This process is continuous.



FEATURES OF THE ROTOR

- Imported origin
- Rotor adsorbent is non-toxic
- Fully water washable rotor
- Rotor perimeter has teeth which ensures smooth & slip free rotation
- Rotor is having chain belt drive mechanism
- ZERO desiccant carry-over to the air
- The rotor neither burns nor supports combustion

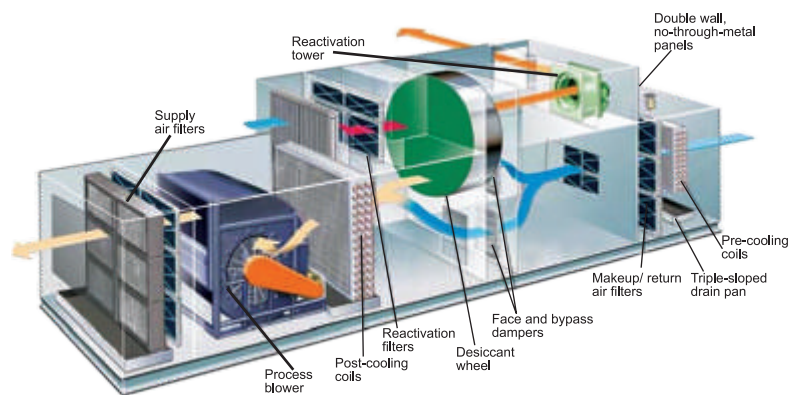


HOW TO INSTALL THE DEHUMIDIFIER

The dehumidifier can be installed directly to the space where moisture control is required. The dehumidifier can be installed along with an AHU (existing or new). Dehumidifier can be customized for all environmental control needs e.g with Pre-cool, Post-cool, filtration needs etc, all options inbuilt in a single unit.

CASILICA CAN PACKAGE THE DEHUMIDIFIER (on request) WITH

- Pre/After-Cooling
- Pre/After Filters
- High Static Fans
- Additional Bypass Arrangements
- Large Airflows
- In-built Condensing Units
- In-built Humidity sensor
- Digital humidity display
- Stainless steel construction
- Inbuilt condensing units



WHY CASILICA DEHUMIDIFIER?

- High Adsorption Capacity
- Eliminates Bacteria
- High Moisture Removal Efficiency
- Highly Efficient Fans
- High Reliability
- Easy To Operate
- Easy To Install
- Easy & Low Maintenance
- Engineered Design for Custom Applications



APPLICATIONS

The dehumidification has very wide applications basically in manufacturing, processing, product drying, R & D, Labs, Packing, Cold stores and in almost all the industries.

Production Areas: Pharma, Food, Chemical, Pan Masala etc.

Storage: Food items, Leather, Seed, Welding electrodes etc.

Packing: Food, Tea/Coffee, Milk powder, Pan Masala etc.

Product Drying: Almost all the products can be dried most effectively and economically e.g. Seed, onion, milk powder, garlic etc.



PRODUCT MODELS

Model	Supply Airflow CFM	Reactivation Airflow CFM	Supply Motor KW	Reactivation Moto KW	Process ESP	Reactivation ESP	Reactivation KW @ 120 C
CRD 10	100	33	0.1	0.1	150	100	1.7
CRD 20	200	67	0.1	0.1	150	100	3.3
CRD 35	350	117	0.37	0.37	200	150	5.8
CRD 60	600	200	0.75	0.75	200	150	10.0
CRD 90	900	300	1.5	0.75	200	150	15.0
CRD 125	1250	417	1.5	0.75	200	150	20.8
CRD 150	1500	500	1.5	0.75	300	250	25.0
CRD 200	2000	667	1.5	0.75	300	250	33.3
CRD 250	2500	833	2	1.1	300	250	41.7
CRD 300	3000	1000	3.7	1.1	300	250	50.0
CRD 350	3500	1167	3.7	1.5	300	250	58.3
CRD 400	4000	1333	3.7	1.5	300	250	66.7
CRD 450	4500	1500	3.7	1.5	300	250	75.0
CRD 500	5000	1667	3.7	1.5	300	250	83.4
CRD 620	6200	2067	3.7	2.24	300	250	103.4
CRD 750	7500	2500	4.25	2.5	300	250	125.0
CRD 850	8500	2833	4.25	2.5	300	250	141.7
CRD 1200	12000	4000	4.25	2.5	300	250	200.0





The intention of this brochure is to introduce you to and acquaint you with the capabilities of the HUMIDIN group as an organization in the offered product areas. It will not answer all your immediate questions, and indeed, it will no doubt raise others. We welcome your interest in our products and shall be very pleased to provide further information.

GUARANTEE

HUMIDIN guarantees its products to be free of defects in material and workmanship for a period of one year from the date of delivery from the factory, provided motors are properly installed with overload protector. Humidin agrees to repair or replace defective parts or part to be returned to the factory, all transportation charges prepaid. Humidin does not guarantee against abrasion, corrosion or erosion. Humidin shall not be held responsible for any charges in connection with the removal or replacement of alleged defective equipment nor for incidental consequential damages.

In accordance with our policy of continual improvement in design, we reserve the right to depart from the details given in this brochure.

** the products as shown in the catalogue may not resemble the supplied product

CASILICA D-AIR Pvt. Ltd.

37/5B, RAJPUR ROAD, CIVIL LINES, DELHI - 110054 INDIA
E-mail : info@casilica.com & sales@casilica.com
PH. 9654452921, 9650375541 Landline No. - 011-23993868
OFFICE IN - DELHI, TRONICA CITY(UP), MUMBAI, BANGLORE, KOLKATA