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DODRY DEHUMIDIFIER

SwagON Dehumidifier removes moisture from air by using desiccant wheel based technology that easily adsorbs water vapor from controlled space and maintains required humidity level.

Why use Desiccant Dehumidifier?

- Very dry air can be achieved.
- Better thermodynamic efficiency.
- Simple construction, Modern controls
- Better construction for Indoor or outdoor use.
- Easy duct connections
- Quick access for easy maintenance.

Works : C-27, MIDC Waluj, Aurangabad-431136. | Regd. Off. : HIG 64, R 28, Mhada, N-7 CIDCO, Auranagabad-431003.
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How it works

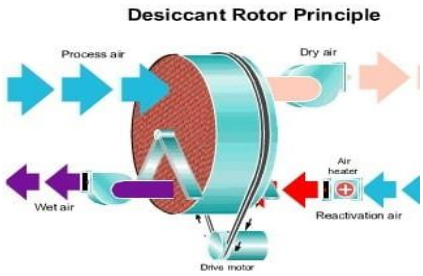
The dehumidifier operates with two air streams.

• A larger air stream known as process air to be dehumidified and a smaller air stream known as reactivation air to exhaust the moisture out of the desiccant rotor.

• Two fans inside the dehumidifier create air Streams which travel through the desiccant rotor in opposite directions.

The larger air volume, the process air, passes through the slowly rotating desiccant rotor. Desiccant rotor Is a honeycomb type hygroscopic material adsorbing water vapor direct from the air. When humid air passing through the desiccant rotor the humidity of the air is reduced, whilst the level of moisture content of the desiccant rotor material increases.

On exiting the rotor the dried air is introduced in to the area, or the process to be dehumidified. The smaller air volume, the reactivation air, adsorbs the moisture from the desiccant rotor.



This reactivation air is heated by an internal electrical heater to a temperature of approximately +130 •C. As the reactivation air passes through the desiccant rotor, in an opposite direction to the dry air (process air), It decreases the moisture content of the rotor material. The reactivation air will leave the dehumidifier as warm, moist air, which Is then will leave the dehumidifier as warm, moist air, which Is then Exhausted out from the building.

Available Unit Size and Options

PRODUCT	CDH
Supply AFM	Up to 30,0IXI
Fan HP (supply / deactivation)	Up to 30 HP
Reactivation option	Electrical Heater
Filter (supply / reactivation)	5-10 micron Pre Filter EU-6
Cooling option	Pre cooling DX or CHW Post cooling DX or CHW
Condemng Units	Split systems
Power Supply	3-Phase / 440 V/ 50 Hz

Applications

- **Pharmaceuticals area**
- **Maintain RH in storage area**
- **Museums and Archives**
- **Paper and Printing**
- **Injection Molding Process area**
- **Rotogravure printing**
- **Low Humidity production area**
- **Tea & Coffee production area**
- **Seed Drying**
- **Electronics**
- **Drying temperature related sensitive products**
- **Protection against sensitive corrosion area**
- **Climatic improvements in damp areas**
- **Chocolate and candies production area**
- **Sugar coating plant**
- **Con0ol RH in ice skating and swimming pool area**
- **Wood Drying**
- **Marine**
- **food Packaging**
- **Computer Room**

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