



World-class Solutions in
Clean Room Equipments, Filters, Coils & AHU's

DESICCANT AHU



Desiccant dehumidifiers are especially well suited for removing moisture from air at a low temperature and low humidity level.

Desiccant dehumidification systems remove moisture from the air by using a desiccant; a material which easily attracts and holds water vapor.

At the heart of these dehumidifiers is a desiccant wheel made up of corrugated material. Air passes through the flutes of the material, contacting the desiccant. The incoming process air stream gives off its moisture to the desiccant. The process air is dry as it leaves the wheel. The humidity-laden wheel rotates slowly into a second, smaller airstream which has been heated.

This smaller exhaust airstream, known as reactivation air, warms the desiccant. The warmed desiccant gives off its moisture which is then carried away by the reactivation air. The newly dried desiccant material is rotated back into the process air, where it absorbs moisture once again.

SPECIFICATIONS OF DAHU FOR PROCESS AIR :

- Range: up to -20°C due point
- Variable Flow: 20% to 100% of rated flow
- Variable Due Point: -20°C to +5°C
- Low RH

SPECIFICATIONS OF DAHU FOR HVAC :

- Low Due Point: - 20°C
- Return Air: 90%
- Fresh Air: 10%

The entire system can be designed and supplied with Control Panel to achieve design parameters.

APPLICATIONS DESICCANT AHU :

- Pharmaceutical Industries
- Food processing units
- Hygroscopic product storage
- Seed storage rooms
- Cold store rooms
- Defense labs

- Power stations
- Precision and chemical plants
- Battery Manufacturing units

FEATURES :

- Corrosion prevention
- Condensation protection
- Moisture regains Prevention
- Fungus prevention
- Product Drying
- Extremely strong and durable thermal break aluminum framework
- Compact electrical panel