

Model DEW 300

ADVANTAGES

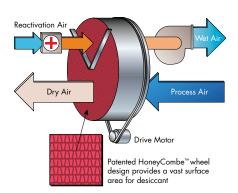
Cargocaire off-the-shelf desiccant dehumidifiers combine state-of-the-art desiccant technology with dependability and long operating life for humidity control at virtually any temperature.

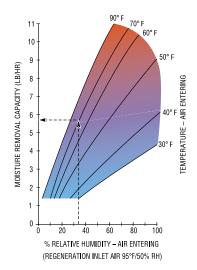
Advantages include:

- Efficient humidity control for applications including product drying, mold and mildew control, corrosion protection, storage and condensation control.
- Durable unitized body with welded aluminum construction.
- Easy access panel for inspection and maintenance.
- Simple ductwork connections.
- Compact, low profile design.









Process air in at 35%RH and 70°F will hold space at 35%RH with a moisture load of 2.9 lbs/hr. To find the temperature of process outlet air (T_{PO}) solve: T_{PO} = .9 (7.2W + T_{PI}) + 23 where T_{PI} = temperature process inlet air $^{\circ}F$

T_{PO}= .9 (7.2 x 2.9 +70) + 23 T_{PO}= 105°F

* DEW-150-R = 60% of DEW-150-I capacity * DEW-150-RC = 60% of DEW-150-I capacity

Reactivation Utility: Energy modulation feature independently controls heater power to minimize energy consumption.

Dehumidifier Housing: Process and reactivation air flow insulation. Blower motors and controls isolated from air streams. Process and reactivation fan guards provided for safety. Volume control dampers for process and reactivation air streams. All welded aluminum

Dimensions Table

Model	Max Length (in.)	Max Width (in.)	Max Height (in.)	Max Weight (lbs.)	Typical External Static Pressures (in. W.G.)	
					Process	React
DEW 300	30	23 1/4	24	115	1.75	1.25

The Titanium Gel wheel is the most advanced of its kind. It contains an inert, non-corrosive, nonmetallic, solid desiccant, manufactured to eliminate erosion, settling and attrition. The Honeycombe® design maximizes the transfer of water in vapor phase and minimizes air friction loss through laminar airflow. The desiccant will not break down even if saturated with water.

cabinet. Durable polyurethane coating. Compact size for minimum space requirements and easy installation.

Specifications

Utilities: 220/1/60, 220/3/60,

460/3/60 ±10%

Process Volume: 150-300 scfm Washable roughing filters

Maximum Heater Power: 6kW @ 230VAC

Maximum FLA: 33 220/1/60 19 230/3/60

9.7 460/3/60

Process Air Blowers E.S.P. 1.25" W.G. Max dBA: 75 (3 feet from dehumidifier except in path of airflows) MIL-I-45208 approved manufacturer Technical manuals MIL-M-7298

Options:

- Humidistat for on/off control
- Constant process blower
- Process inlet transitions for round duct
- Condensation controller

Suggested Specification Guide:

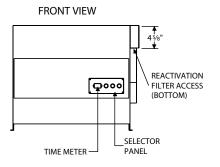
Dehumidifier shall be of a type proven in satisfactory operation for a minimum of 10 years. Dehumidifier shall be of the noncycling sorption type with a single desiccant rotary structure. The casing will be fabricated as a unitized body with welded aluminum construction for maximum strength and

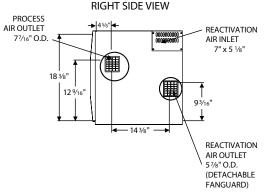
durability. Suitable access panel shall allow access for inspection or servicing without disconnecting ducting or electrical wiring. Airflow balancing dampers to be furnished.

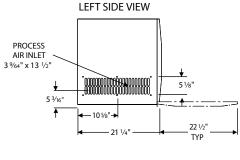
The rotary structure shall be a monolithic fabricated extended surface composite consisting of inert silicates reinforced with uniform diameter glass fibers for maximum strength. The fabricated structure shall be smooth and continuous in the direction of airflow without interruptions or sandwich layers which restrict airflow or create a leakage path at joining surfaces. Desiccant shall not channel, cake or fracture due to repeated temperature and moisture cycling. The materials of construction shall be non-toxic.

Full face contact pressure seals shall be provided to separate the process and reactivation air streams and eliminate detrimental leakage of air or moisture with static pressure differentials of up to 3" of water gauge.

Dehumidifier shall be factory assembled, fully automatic, complete with HoneyCombe® desiccant wheel, reactivation heaters, reactivation energy control system, roughing filters, motors, fans, non-ratcheting desiccant drive unit, automatic controller and all components' auxiliaries. Reactivation Energy Modulation shall be stepless solid state proportioning type. Dehumidifier shall be functionally tested at the manufacturer's factory and shipped complete with all components necessary to maintain normal operation.







Munters

Munters Corporation