

HC Series

# Desiccant Dehumidifier



## Product Description

Munters 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.

**Process Air:** Flow rates of 150-300 scfm. Nominal moisture removal: 7.9 lbs/hr at 75°F, 50% RH at 300 scfm. Capable of processing saturated, conditioned or outside air.

**Contact Air Seals:** Separate process and reactivation air streams.

**Electrical Controls:** Automatic restart after power failure. Contacts for remote run and fault status. Elapsed time meter. Simplified controls using relay logic. 24 VAC signal wiring allows for low voltage wiring of humidistat. Control system monitors and controls unit function.

**Drive System:** Simple drive belt arrangement, few moving parts.

**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 cabinet. Compact size for minimum space requirements and easy installation.

## PRODUCT INFORMATION

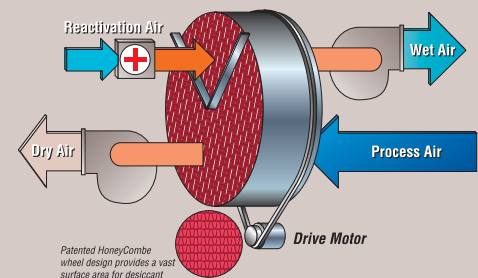
# HC-300

### OFF-THE-SHELF DEHUMIDIFIER

#### Advantages:

- 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

## Desiccant Rotors

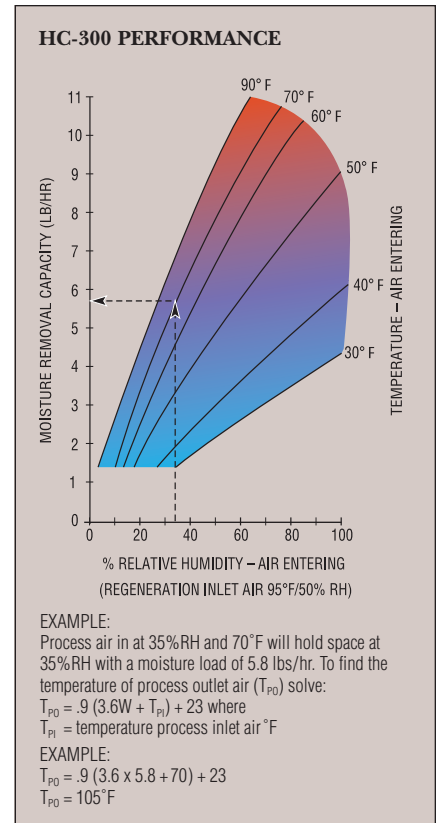
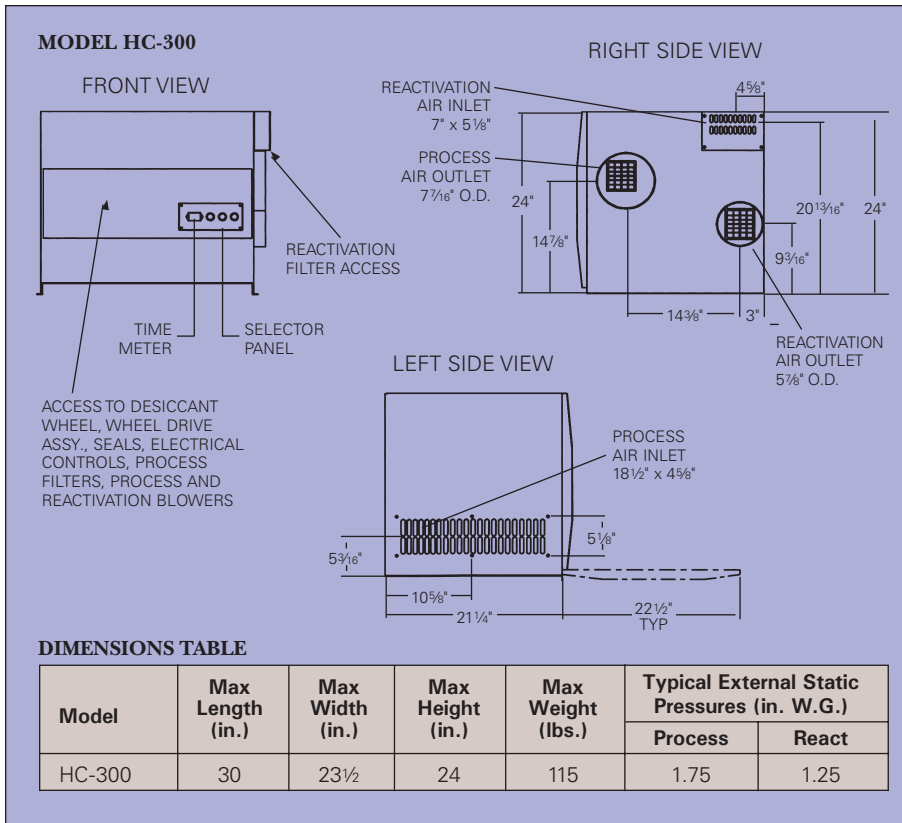


In the 1950's Munters invented modern industrial dehumidification when it introduced the self-regenerating desiccant rotor, the heart of the dehumidifier.

Today, Munters offers rotors with five desiccant formulations and is the acknowledged expert in the integration of rotors into dehumidification systems and air handlers.



The Humidity Expert



**Suggested Specification Guide:**

Dehumidifier shall be of a type proven in satisfactory operation for a minimum of ten years. Dehumidifier shall be of the non-cycling 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 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 and NFPA 255-ASTM E84 compliant.

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, industrial drive motor, 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.

*\*Continual engineering and research for product improvement may result in design and specification changes. Consult factory for certified technical data.*

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**Technical Specifications\***

Utilities: 220/1/60, 220/3/60, 460/3/60 ±10%

Process Volume: 150-300 scfm

Max Reactivation Volume: 100 scfm

Max Reactivation Heater:  
HC-300 = 6kW

Maximum FLA:  
HC-300 = 33A @ 220V/1/60Hz  
HC-300 = 19A @ 230V/3/60Hz  
HC-300 = 9.7A @ 460V/3/60Hz

Process Air Blower: E.S.P. 1.75" W.G.  
Reactivation Air Blower: E.S.P. 1.25" W.G.

Max dBA: 75 (3 feet from dehumidifier except in path of air flows)

Washable metal roughing filters

**Options:**

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



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