



## DEW 150 Mobile Dehumidifier

- **Process Air:** Flow rates of 75-150 scfm.
- **Nominal Moisture Removal:** 4.5 lbs/hr at 75°F, 50% RH at 150
- **Contact Air Seals:** Separate process and reactivation air streams. Compatible with modulating face and bypass systems.
- **Electrical Controls:** Automatic restart after power failure, contacts for remote run and fault status and elapsed time meter.
- **Drive System:** Simple drive belt arrangement, few moving parts.

## Model DEW 150

Munters off-the-shelf desiccant dehumidifier, DEW 150, combines state-of-the-art desiccant technology with dependability and long operating life for humidity control at virtually any temperature. Applications include but are not limited to; product drying, mold and mildew control, corrosion protection, storage and condensation control.

With dehumidification, the following problems are eliminated in thousands of military applications:

**Electronic Failures:** Advanced electronics are extremely sensitive to moisture. Dehumidification eliminates moisture formation, precluding downtime and malfunction.

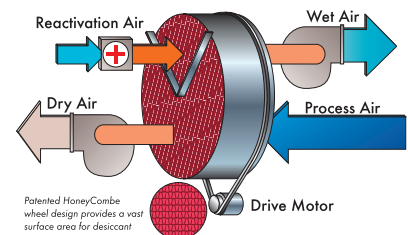
**Corrosion:** With dehumidification, moisture that causes rust and corrosion cannot condense on surfaces.

**Diagnostic "Ghosts":** Moisture is the leading cause of diagnostic "ghosts." Using dehumidification protection greatly reduces their occurrence.

**Mold and Mildew:** Dry air keeps surfaces moisture-free, therefore preventing the onset of mold and mildew.



### Munters HoneyCombe® Rotor Technology



# DEW 150 Dimensions Table

Model	Max Length (in.)	Max Width (in.)	Max Height (in.)	Max Weight (lb.)	Typical External Static Pressures (in. W.G.)	
					Process	React
DEW 150-I	26	19 1/4	18 11/32	70	0.75	0.15
DEW 150-R	26	19 1/4	18 11/32	70	0.75	0.15

The Titanium Gel wheel is the most advanced of its kind. It contains an inert, non-corrosive, non-metallic, 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.

## Suggested Specification Guide

Dehumidifier shall be of a type proven in satisfactory operation for a minimum of 10 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 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.

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

### Electrical Controls

Simplified controls using relay logic. 24 VAC signal wiring allows for low voltage wiring of humidistat. Control system monitors and controls unit function.

# Specifications

### Utilities:

HC-150-I = 220 VAC ±10%/1/60Hz  
 HC-150-R = 115 VAC ±10%/1/60Hz

Process Volume: 75-150 scfm

Max. Reactivation Volume: 55 scfm

Max Reactivation Heater:  
 HC-150-I = 2.9kw @ 230 VAC  
 HC-150-R = 1.5kw @ 115 VAC

### Maximum FLA:

HC-150-I = 14.7A @ 230V/1/60Hz  
 HC-150-R = 17.0A @ 115V/1/60Hz

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

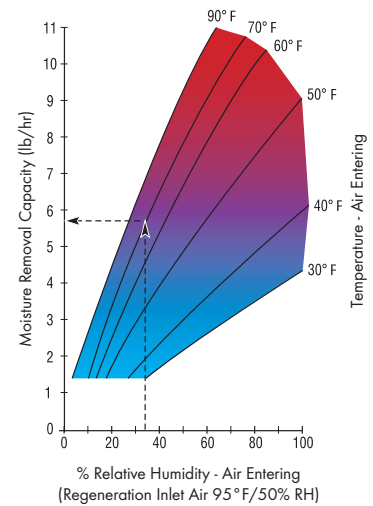
Washable metal roughing filters

MIL-I-45208 approved manufacturer

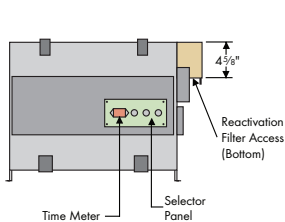
Technical manuals MIL-M-7298

### Options:

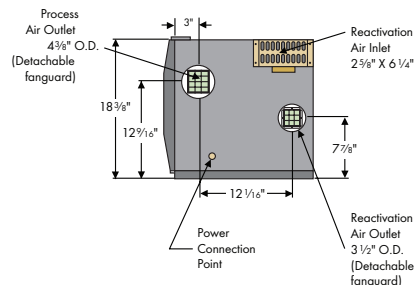
- Humidistat for on/off control
- Constant process blower
- Process inlet transitions for round duct
- Condensation controller



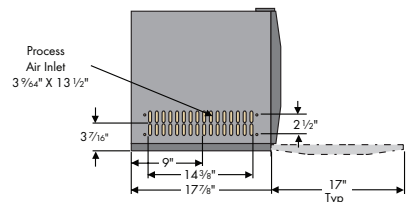
### Front View



### Right View



### Left View



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