

DEW-2250

Modular Dehumidifier Units with Options

- Weather-tight construction for indoor or outdoor use
- Quick access for easy maintenance
- Easy duct connections
- Modulating electric, gas or steam reactivation
- Temperature and humidity control options available

DEW-2250 Series Desiccant Dehumidifier

Process Air: Flow rates of 600-2250 scfm. Nominal moisture removal: 30 lbs/hr at 75°F, 50% RH at 1125 scfm. Delivered air moisture levels of -55°F dewpoint and lower are attainable.

Contact Air Seals: Separate process and reactivation air at pressures up to 8" W.G. with 5 years life expectancy.

Process & Reactivation Fans: Centrifugal, direct drive with totally enclosed fan cooled motors with multiple blower orientations.

Electrical Controls: Continuous automatic operation including motor starters, overload protective devices, microprocessor with indicating lights and fault circuits. All wiring to NEC codes.

Reactivation Utility: Electric with solid state proportioning control, steam with proportional air volume control or gas (direct/indirect) with modulating gas valve.

Drive System: Simple, self-tensioning drive belt arrangement, few moving parts.

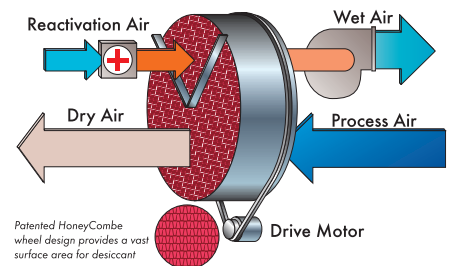
Dehumidifier Housing: Process and reactivation air flow insulation. Durable air-dry polyurethane paint. All welded aluminum cabinet.

Honeycombe® Wheel Technology

- Choice of three desiccants:
 1. lithium chloride
 2. titanium silica gel
 3. molecular sieve
 - Inert structure, non-corrosive, solid desiccant, non-metallic
- Maximum transfer of water in vapor phase.
Minimum air friction loss with laminar air flow.
No desiccant settling, erosion or attrition.
Continuous, non-cycling performance.

Component and Control Options:

Pre/post air treatment for heating, cooling and humidifying.



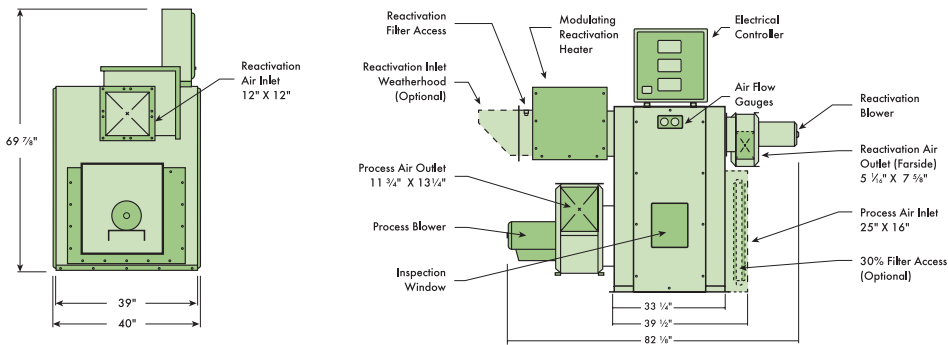
In the 1950's Munters invented modern industrial dehumidification when it introduced the self-regenerating desiccant rotor, the heart of the dehumidifier.

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

Dimensions Table for EA (electric), SA (steam), GA (indirect gas-fired), and DGA (direct gas-fired) Reactivation

Model	Max Length (in.)	Max Width (in.)	Max Height (in.)	Max Weight (lbs.)	Typical/External Static Pressures (in. W.G.)	
					Process	React
DEW-2250 EA	83	40	70	780	3.75	1.65
DEW-2250 SA	89	40	70	800	3.75	1.65
DEW-2250 GA	130	47	79 indoor 72 outdoor	1030	3.75	1.65
DEW-2250 DGA	108	47	72 indoor 72 outdoor	1030	3.75	1.65

Model DEW-2250, Electric - EA



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 panels on both sides of the unit shall allow access for inspection or servicing without disconnecting ducting or electrical wiring. Airflow balancing dampers to be furnished. The dehumidifier shall be designed for continuous operation.

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.

The desiccant wheel shall be a single piece for fast removal and simple handling. The desiccant wheel shall be supported by four rollers at the base of the unit so the wheel can be easily removed for maintenance by lifting it over the rollers using the drive belt. Center-axle support or any arrangement which requires disassembly of the support structure for wheel removal shall not be acceptable.

Design shall be modular in approach to readily allow connection to accessories such as face & bypass, pre- or post-cool modules.

Electrical components shall be UL/CSA recognized and wiring methods in accordance with the latest edition of the National Electric Code. Power supply shall be ___Volts/3 Phase/___ Hertz.

Specifications*

Utilities: 208, 230, 460 or 575 Volts

Reactivation Heaters:

EA-Electric: 208-575 volts.
SA-Steam: 10-150 psig.
GA/DGA-Gas: Natural or propane
4.5 to 14" W.G. pressure.

Max Reactivation Air Volume: 600 scfm

Reactivation Filter: Permanent and washable

Electric Controller: NEMA 4

Installation: Indoors or outdoors

Options: On/Off humidstat, process air filter, internal bypass, weatherhood

Typical Energy Consumption:

Model EA Voltage	Heater kW	Unit Amps
208	42	136
230	42	123
460	42	63
575	42	51

General arrangement drawings for other electric, steam or gas reactivation units available from your local representative or factory. Drawing on left for illustrative purposes, not for construction. Consult factory for certified drawings.

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 8" 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. 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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