

GC-150



GC-150 Desiccant Dehumidifier

ADVANTAGES

- High efficiency humidity control
- Compact, small footprint, durable and corrosion resistance construction
- Easy inspection and maintenance
- Simple ductwork connections

GC-150

Desiccant Dehumidifier

Munters compact dehumidifier combines state-of-the-art desiccant technology in a self-contained unit to provide dependability and long operating life for humidity control at virtually any temperature. The GC-150 is perfect for protection of inactive machinery such as turbines, boilers, generators, and marine components, along with warehouse storage and water treatment plants. The GC-150 vertical design (<25"Ø footprint) allows it to be installed in places where other units will not fit.

Process air: Flow rate of 75-150 SCFM at 2" w.c. ESP. 3.8 lb/hr moisture removal. Capable of processing saturated, conditioned or outside air. Capable of 2.0 gpp (-18°F dp) minimum dry air moisture level

Contact air seals: Separate process and reactivation air streams to minimize leakage and improve performance. Five year life expectancy.

Reactivation air: 40-50 SCFM @ 0.2" w.c. ESP

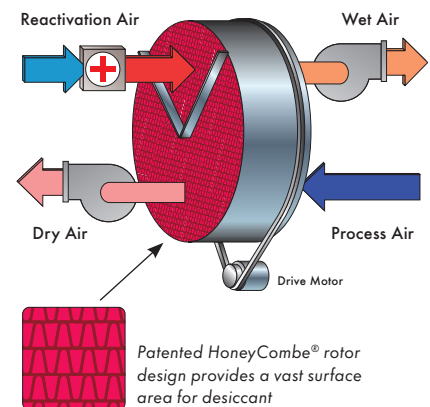
Electrical controls: Simple automatic control system monitors and controls unit functions. Visual indicators power, running and high humidity status. Elapse time meter. Built in hygrometer and humidistats for humidity control.

Drive system: Continuous rotation, with simple drive belt arrangement and few moving parts.

Reactivation utility: Solid-state energy modulation of heater reduces energy consumption that optimizes desiccant media regeneration. Includes independent reactivation fan and high temperature protection.

Dehumidifier housing: Durable and light weld aluminum cabinet with front access panel. Process and reactivation airflow insulation to reduce heat loss and condensation risk. Blower motors and control isolated from air streams. Volume control dampers for adjusting process and reactivation air streams. Compact, vertical design for minimal space requirements and easy installation. Light gray enamel MIL-E-15090 paint.

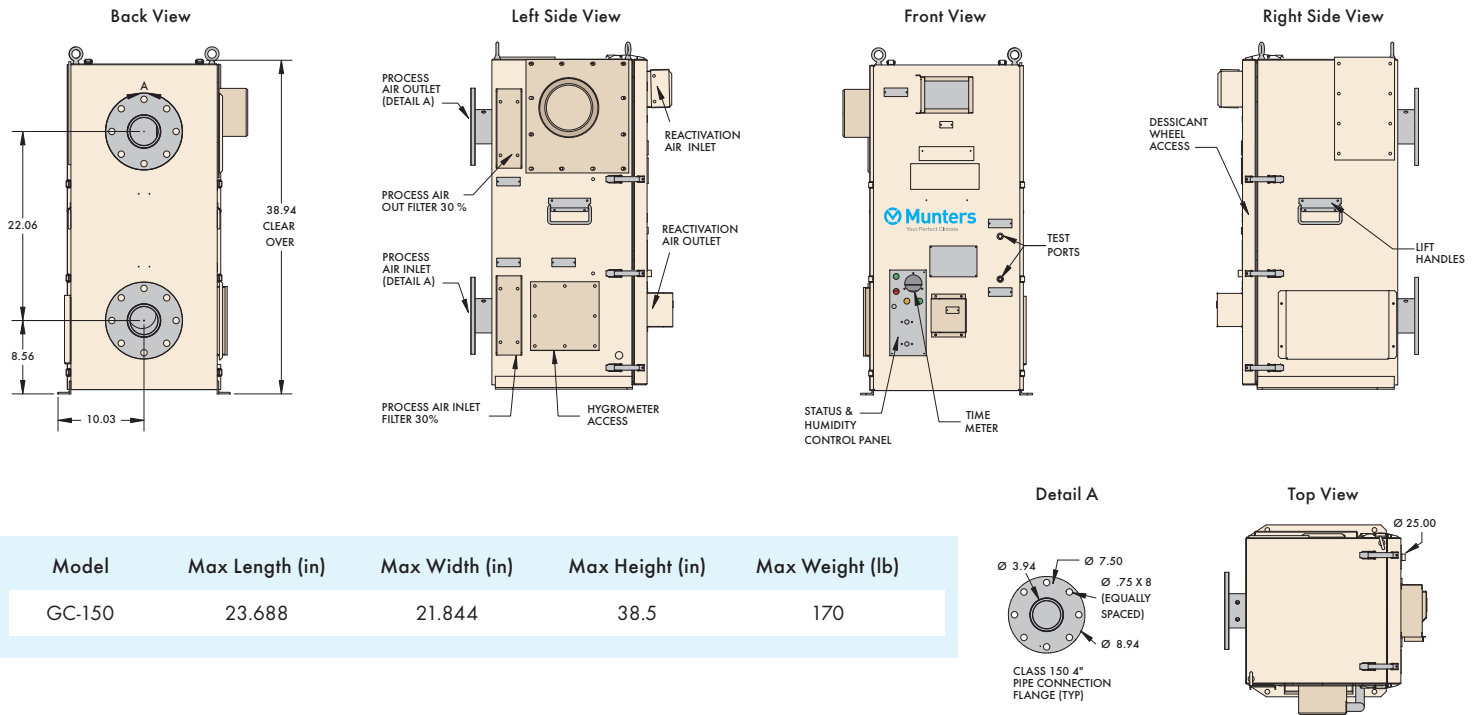
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In the 1950's Munters invented modern industrial dehumidification when it introduced the self-regenerating desiccant rotor, the heart of the dehumidifier.

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

Model GC-150



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 225-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, 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.

Technical Specifications*

Utilities: 440 Volts (3 Phase, 60 Hertz)

Reactivation heater: 1.75kW

Total connected load: 4.7 amps

Filters: Reactivation inlet, process inlet and outlet permanent and washable

Duct connections: Process air four (4) inch round flanges.

Performance testing: Psychrometric taps and direct reading hygrometer

Note: The GC-150 meets Navy shock and vibration requirements. (MIL-S-901 C)

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

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