



POLYGON  
EQUIPMENT  
DATASHEET

# HC-9000

## Desiccant Dehumidifier



### Product Description

The HC-9000 is a completely self-contained dehumidifier with an active Titanium Silica Gel desiccant wheel. The system is integrally designed and controlled for superior performance in even the highest humidity load conditions.

- Reactivation utility: electric with solid-state proportioning control. Optional: Direct fired gas with modulating gas valve for natural or propane gas.
- Dehumidifier housing: process and reactivation air flow insulation. Quiet operation with plenum mounted process fan.



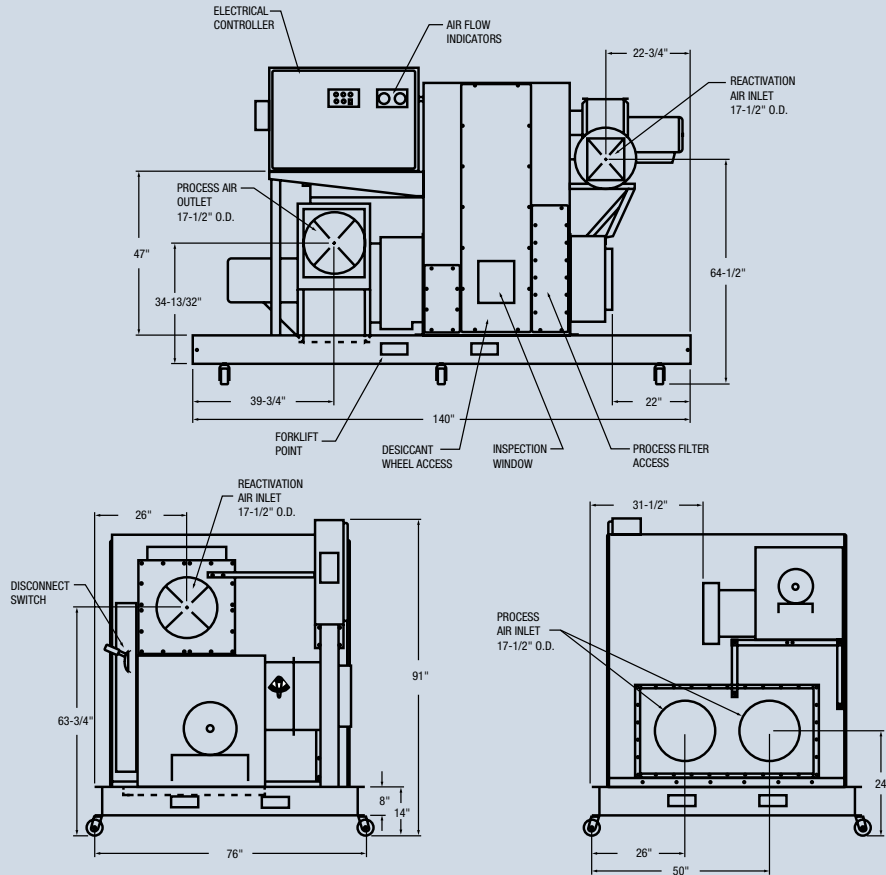
### Features

- Process air: flow rates of 4500 to 9000 SCFM. Nominal moisture removal: 239 lb/hr at 75°F, 50% RH at 9000 SCFM. Delivered air moisture levels of -55°F dew point and lower are attainable
- Contact air seals: separate process and reactivation air pressures up to 8" water gauge with five-year life expectancy
- Process and reactivation fans: centrifugal, direct drive with totally enclosed fan-cooled motors
- Electrical controls: continuous automatic operation including motor starters, overload protective devices and full controls with indicating lights and fault circuits
- Desiccant reactivation via modulating electric, with propane or natural gas optional
- All wiring to NEC codes
- Drive system: simple drive-belt arrangement with few moving parts.

### Benefits

- Weather-tight construction for indoor or outdoor use
- Low profile cassette design provides space savings
- Quick access for easy maintenance
- Modulating electric, gas: natural or propane
- Cost savings - 18" deep Titanium Silica Gel desiccant provides optimal drying performance with the least energy consumed
- Lightweight aluminum construction.





## HC-9000

### Equipment Specifications

- Length: 140"
- Width: 76"
- Height: 91"
- Weight: 7,000 lb
- Full Load Amps (FLA): 272 @ 460 volt three phase-electric reactivation
- Fuel required:
  - 8 g/hr diesel for electric
  - 3 g/hr diesel for gas or steam
  - 5-9 therms natural gas/hr
  - 6-10 gal/hr of propane
- Generator requirements:
  - 200 KW-minimum for electric
  - 50 KW-minimum for gas or steam
- SCFM range: 8.0" ESP @ 4500-10,000 SCFM
- NFPA 255-ASTM E84 compliant
- Insurance value: \$89,500.00

### HoneyCombe® Wheel Technology

