



POLYGON  
EQUIPMENT  
DATASHEET

# M-20

## Desiccant Dehumidifier



### Product Description

The M-20 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 2250-5000 SCFM  
Nominal moisture removal: 119 lb/hr at 75°F, 50% RH at 4500 SCFM
- 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
- Utility: electric with solid state proportioning control. Optional: gas direct with modulating gas valve for natural or propane gas.

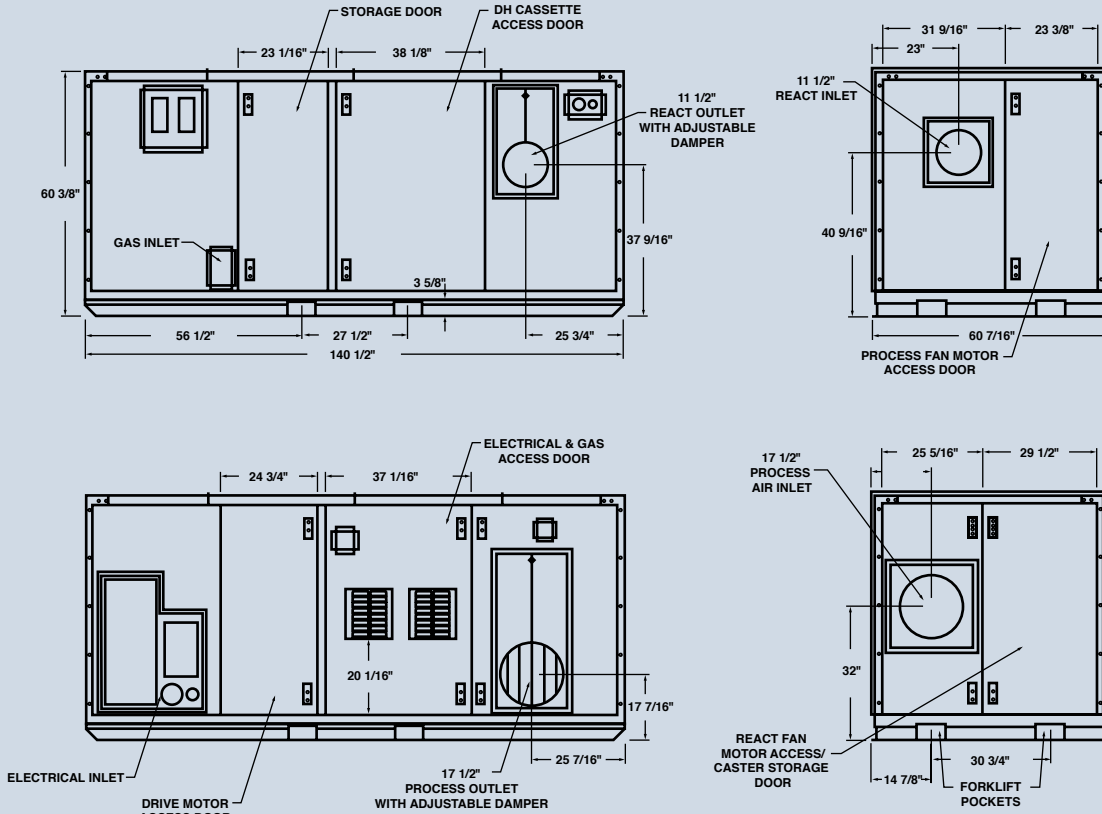
### Benefits

- Weather-tight construction for indoor or outdoor use
- Low profile cassette design provides space savings
- Sound Attenuated
- Stackable
- 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.





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### Equipment Specifications

- Length: 141"
- Width: 61"
- Height: 61"
- Weight: 3,800 lb
- Full Load Amps (FLA):
  - 107 @ 460 volt three phase-electric reactivation
  - 22 @ 460 volt three phase-gas reactivation
- Fuel required:
  - 8 g/hr diesel for electric
  - 2.5 g/hr diesel for gas or steam
  - 2-5 therms natural gas/hr
  - 2-5 gal/hr of propane
- Generator requirements:
  - 100 KW-minimum for electric
  - 30 KW-minimum for gas
- SCFM range: 4.5" ESP @ 2250-5000 SCFM
- NFPA 255-ASTM E84 compliant
- Insurance value: \$68,822.00

### HoneyCombe® Wheel Technology

