



**POLYGON  
EQUIPMENT  
DATASHEET**

# HCU-6000

Hybrid Direct Expansion and  
Desiccant Dehumidifier



## Product Description

The Polygon HCU product line offers an energy efficient advancement in dehumidification. The design combines cooling and desiccant dehumidification technologies in one package, utilizing the waste heat from the cooling cycle to reactivate the desiccant wheel. This unique, patented feature allows effective temporary control of buildings, enclosures and industrial structures for condensation and corrosion control as well as temporary climate control and aggressive structural drying. In hot, humid climates, the Polygon HCU dehumidifier out-performs all other technologies with less energy and comfortable outlet temperatures.



## HCU-6000 Product Information

The unit utilizes a packaged refrigeration system in conjunction with an active titanium silica gel desiccant wheel. The HCU operates cost-effectively because all of the energy required for the regeneration of the desiccant wheel is recycled from the condenser waste heat. The system is integrally designed and controlled for superior performance in even the highest humidity load conditions.

- 4000–6000 nominal SCFM
- Neutral outlet temperature
- Combines benefits of refrigeration and desiccant technologies
- Co-Gel desiccant wheel
- Humidity or temperature demand control
- Night setback mode
- Digital control with optional remote monitoring
- High energy efficiency
- Designed for outdoor use
- ETL listed

## Features

- Built in digital controller
- Remote monitoring capabilities
- Selection of humidity or temperature demand as the control point
- High efficiency scroll compressors
- Titanium enhanced silica gel wheel with carbon
- Variable frequency drives for capacity control
- Stackable

## Benefits

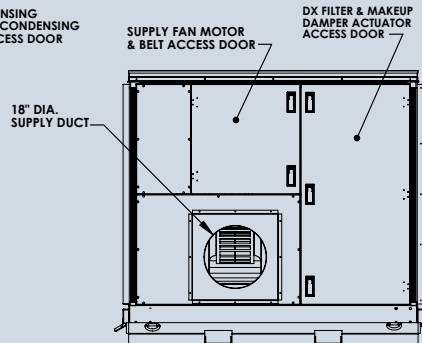
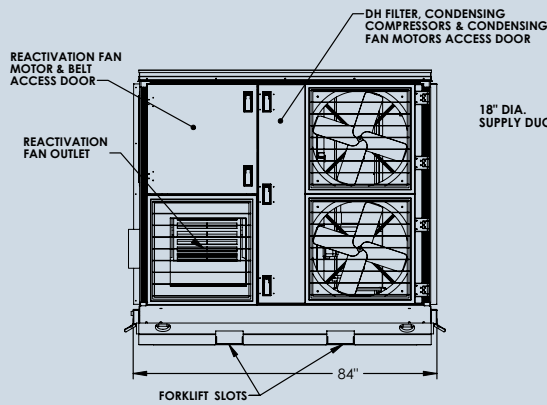
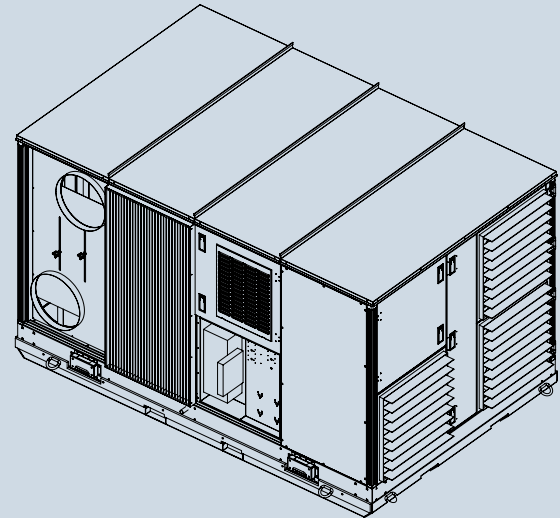
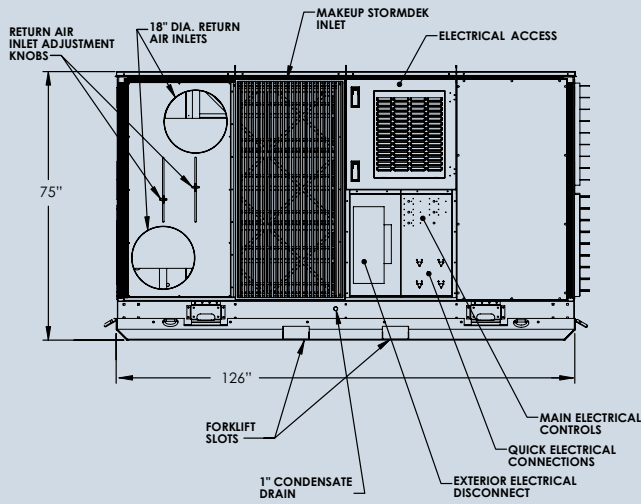
- 70-80° F outlet temperatures
- Out-performs all types of equipment in hot humid climates
- Provides very high energy efficiency
- Over-all cost is 25% less than closest comparable solution
- Optimizes refrigeration-based air conditioning and desiccant-based dehumidification performance
- Smallest site footprint due to stackability.





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### Equipment Specifications

- Length: 126"
- Width: 84"
- Height: 75"
- Weight: 5200 lb
- Full load amps (FLA): 78 @ 460 volt 3 phase
- HP: 5, 7.5
- Airflow: 4,000-6,000 SCFM
- ETL listed
- Insurance value: \$96,500.00

