DryCool™ Standard
Humidity Control Unit

Benefits
- Energy Efficient
- Fresh Makeup Air
- Avoid Cool & Reheat
- Dry, Healthy Duct Work
- Increase Your Cooling COP
- Low-Cost Code Compliance
- Independent Temperature & Humidity Control

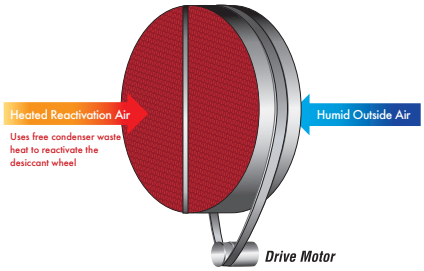
DryCool™ Standard Humidity Control Unit

A Munters DryCool™ unit provides operators the ability to control temperature and humidity independently. DryCool™ is designed to cost-effectively treat 100% makeup air and can work in conjunction with your existing A/C system or energy recovery ventilator (ERV). It controls humidity on an as-needed basis, when humidity levels exceed setpoint.

Conventional air conditioning systems do not effectively control humidity. Recent increases in makeup air requirements have changed sensible heat ratios to levels where these systems operate poorly. DryCool™ operates cost-efficiently because all of the energy required for the operation of its desiccant dehumidifier is recycled from cooling components. It is designed to provide an economical way to bring makeup air into a space at room-neutral temperatures and low dew point to control space humidity.

DryCool™ combines the benefits of desiccant dehumidifiers with the cooling of DX air conditioners to pre-treat makeup air before it is brought into a building. These units include a direct expansion pre-cooling coil, a desiccant wheel, integrated condensing package, supply fan and reactivation fan. They can include gas, electric, hot water and steam heat. Systems independently control temperature and humidity with optional night setback and remote monitoring. Unit installation can be indoors or outdoors. These systems can process 1,000 cfm to 16,000 cfm of makeup air.

Munters' Patented DryCool HCU Desiccant Wheel



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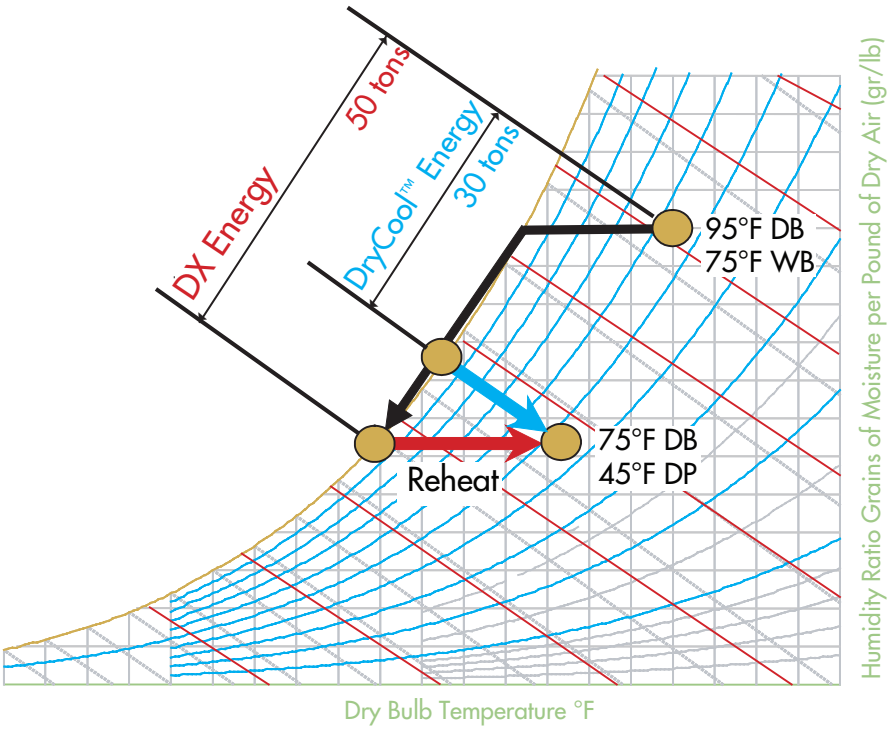
Munters

DryCool™ Standard Technical Specifications

Nominal CFM	Total Compressor Tons	Equivalent Cooling Tons **	General Dim. (LxWxH) in.	General Weight +/- 10% (Lbs.)
2,000	10	16	111 x 65 x 57	2,450
3,000	15	25	111 x 65 x 57	3,300
4,000	20	30	127 x 65 x 72	4,000
5,000*	15	25	111 x 65 x 57	2,530
6,000	30	50	142 x 96 x 72	4,850
8,000	40	70	188 x 96 x 86	7,380
12,000	60	100	311 x 127 x 102	13,650
16,000	80	130	341 x 127 x 102	16,800

Dimensions and weights do not include post heat option
*Mostly return air
** Indicates the tonnage a conventional DX system would require to achieve the same leaving air dewpoint as the DryCool™ Standard

DryCool™ HCUc6030 Operating Example



At a nominal 6,000 cfm entering at 95°F db and 75°F wb, the DryCool™ HCUc 6030 uses 30 tons of compressor cooling to deliver space neutral air at a 45°F dp. A conventional DX unit uses 50 tons of compressor cooling to deliver the same conditions.

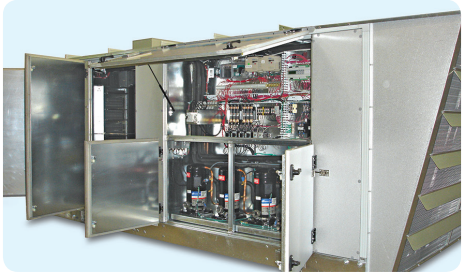
Munters Corporation Protected by one or more of the following U.S. Patents. 5435958; 5505769; 5423934; 5500402; 6375914; 6557365; 6622508; 6711907; 6875299; 7047751. U.S. and worldwide Patents Pending.

Standard Features

- R-410a Refrigerant
- 100% Makeup Air Operation
- TiGel Desiccant Wheel
- Standard DX System
- Scroll Compressors
- Galvalume Double Wall Construction
- Air Intake Hoods / Louvers
- Supply and Reactivation Filters
- BMS Interface
- ETL Listed

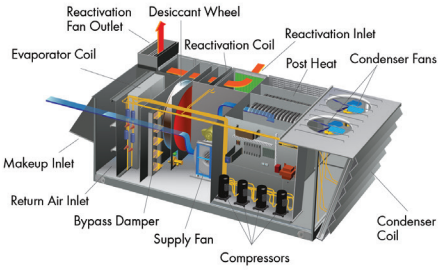
Unit Options

- Return Air
- Unoccupied Mode
- Corrosion Resistant Coil Coating
- Gas, Electric, Hot Water, Steam Post Heat
- Extended Service Plans
- Digital Controller



DryCool™ is a quiet, energy efficient, and high performing product. The unit is extremely serviceable with all components easily accessible from the outside of the unit.

DryCool™ Standard Unit Illustration



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