

HCUc Series

Humidity Control Unit



Product Description & Advantages

Munters Humidity Control Unit (HCU) provides operators the ability to control temperature and humidity independently. The HCU 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.

The HCU operates cost-efficiently because all of the energy required for the operation of its desiccant dehumidifier is recycled from cooling components. When there is a call for cooling only, the HCU lowers energy costs because the Coefficient of Performance (COP) is higher than a typical air conditioning system.

The HCU combines the benefits of desiccant dehumidifiers with the cooling of DX air conditioners to pre-treat make up 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, reactivation fan and condensing 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.

Product Guide

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

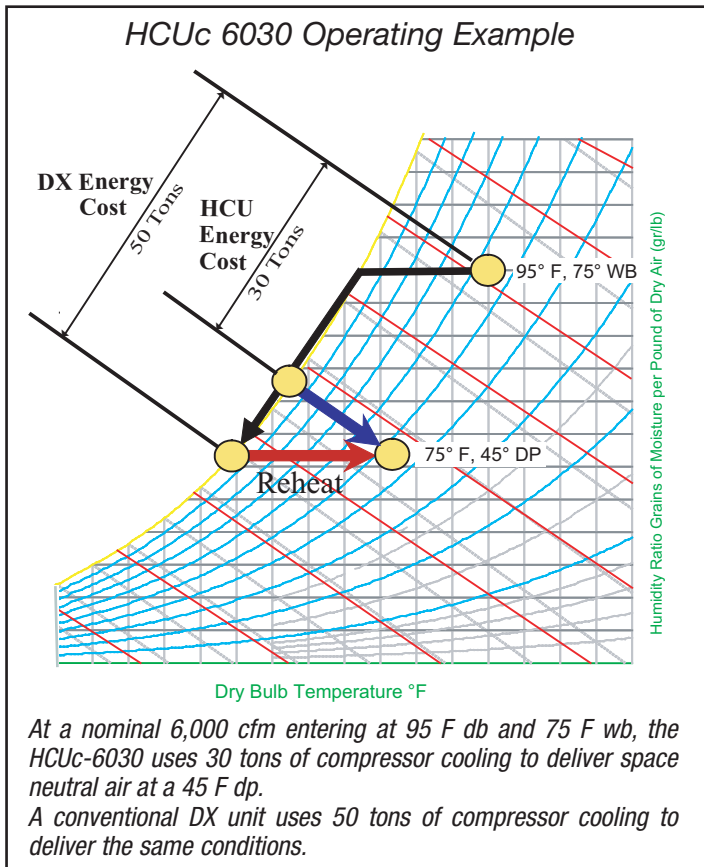
Technical Specifications

Nominal CFM	2,000	3,000	4,000	6,000	8,000	12,000	16,000
Total Compressor Tons	10	12	20	30	40	65	85
Equivalent Cooling Tons **	16	20	30	50	70	100	130
General Dimensions (LxWxH) in.	TBD	112 x 65 x 57	127 x 65 x 72	173 x 96 x 72	249 x 96 x 86	311 x 127 x 102	341 x 127 x 102
General Weight +/- 10% (Lbs.)	TBD	3,300	4,000	5,250	7,850	13,650	16,800

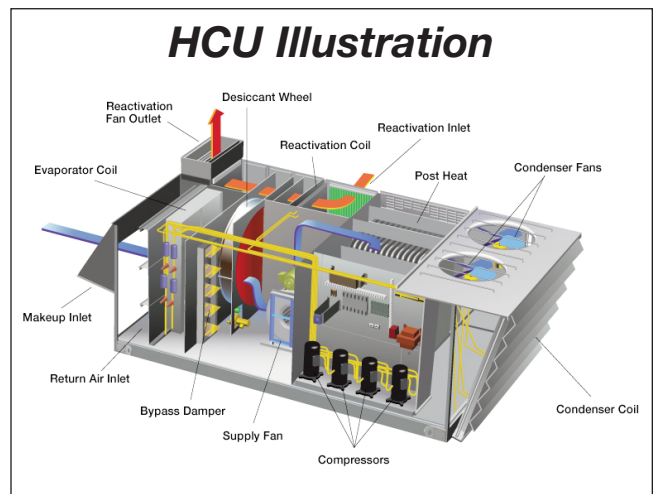
Dimensions and weights do not include post heat option

** Indicates the tonnage a conventional DX system would require to achieve the same leaving air dewpoint as the HCU

STANDARD FEATURES	UNIT OPTIONS
R-410a Refrigerant	Return Air
100% Makeup Air Operation	Unoccupied Mode
TiGel Desiccant Wheel	Corrosion Resistant Coil Coating
Packaged DX System	BMS Interface
Scroll Compressors	Gas, Electric, Hot Water, Steam Post Heat
Galvalume Double Wall Construction	Extended Service Plans
Air Intake Hoods / Louvers	Digital Controller
Supply and Reactivation Filters	
ETL Listed	



The HCU 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.



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.

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