

DRYCOOL™ PLUS

Single Wheel Provides Efficient Desiccant Dehumidification + Energy Recovery



Munters has developed a new packaged rooftop unit that integrates the advantages of energy recovery and desiccant dehumidification. This one unit can replace the typical 100% OAU plus RTU-ERV system with a single package that controls space humidity and provides total energy recovery.

Product Description & Advantages

The Munters DryCool™ Plus treats 100% outside air (OA) and utilizes a DX refrigerant/desiccant wheel system to economically dry the OA when in dehumidification mode. When not in DH mode, the desiccant wheel rotates faster to recover building exhaust to preheat or precool the OA. The refrigeration is staged based on space moisture conditions required to deliver dried OA into the space. In energy recovery mode, the OA passes through the desiccant wheel that is now rotating faster and operates as an effective energy recovery wheel. This preheats/precools the OA prior to it being processed to meet the space thermostat settings. Units can be configured for delivered air temperature/dewpoint control or space temperature/relative humidity control. Digital scroll compressors are an option for both precooling and postcooling, allowing tighter dewpoint and temperature control. This unit also features an economizer mode.

PRODUCT INFORMATION DRYCOOL™ PLUS



BENEFITS

- Packaged system, utilizing a single desiccant wheel for dehumidification and energy recovery
- 30% OA energy savings
- 75% energy recovery savings
- Avoid Cool & Reheat
- Dry, Healthy Duct Work
- Increase Your Cooling COP
- Low-cost Code Compliance
- Active humidity control with passive ERV energy savings

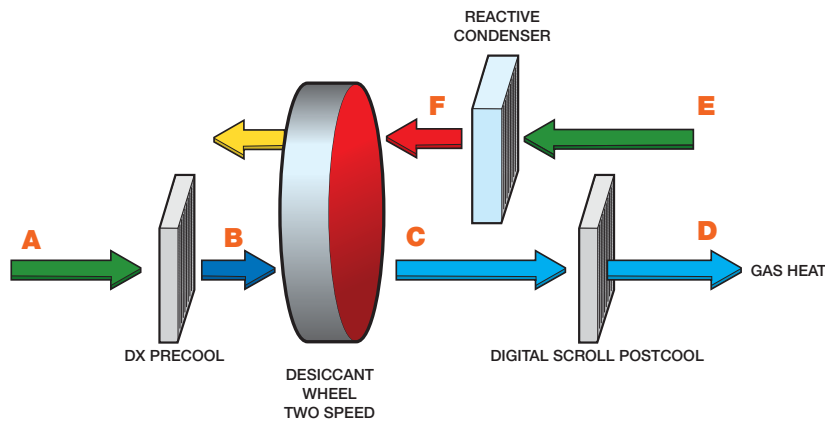
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Flow Performance

SUMMER	8 rph	A	B	C	D	E	F
	SCFM	5000	5000	5000	5000	3500	3500
	°F db	90	52	69	71	76	120
	Gr/Lb	107	59	35	35	68	68

WINTER	900 rph	A	B	C	D	E	F
	SCFM	5000	5000	5000	5000	3500	3500
	°F db	+20	+20	51	112**	72	72
	°F db	10	10	46	105**	72	72
	°F db	-4	-4	30	89**	72	72

Note: **2-Stage Gas Heat



Standard Features

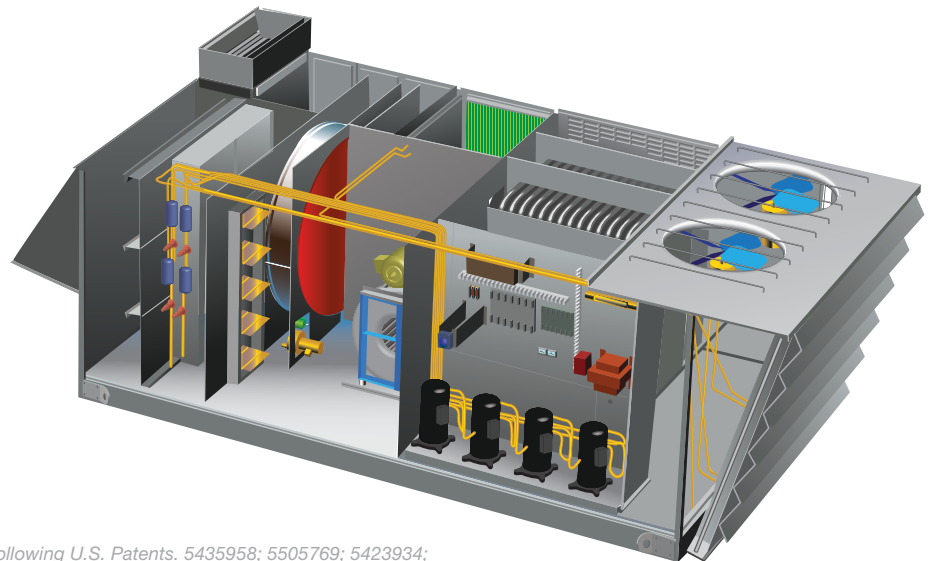
- 100% makeup air operation
- R-410a refrigerant
- Complete DDC controls package
- HCR desiccant wheel
- Scroll compressors
- Galvalume foam injected double wall construction
- Supply and exhaust fans
- Humidistat controlled
- ETL Listed

Unit Options

- Digital Compressors for precooling and postcooling
- Chilled water cooling for precooling and postcooling
- Unoccupied mode/Night setback
- Corrosion resistant coatings
- Gas, electric, or hot water heat
- BMS interface

Unit Illustration

Munters desiccant wheels are known for their outstanding moisture removal capabilities. These same wheels provide up to 75% energy recovery when rotated at higher speeds. In dehumidification mode the desiccant wheel spins 8rph. By speeding the wheel up to 900 rph (15 rpm) 75% of the exhaust air energy can be recovered. This unit will greatly reduce your system installation cost and ongoing energy bills. Multiple LEED® certification credits can be earned with this energy efficient system.



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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