

DRYCOOL® ERV

Desiccant dehumidifier

BENEFITS

- Energy efficient
- Delivers low dew point
- Avoids cool – reheat
- Increases cooling COP
- Variable airflow capability



DryCool® ERV

Desiccant dehumidifier

The Munters DryCool ERV product combines the benefits of desiccant dehumidification with total energy recovery. The unit supplies 100% make-up air utilizing energy recovery from the exhaust air stream. Packaged direct expansion cooling is included to provide a complete conditioning system. 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.

The DryCool ERV's unique desiccant dehumidification process is the most efficient dehumidification method commercially available. It eliminates the inefficient over-cool reheat process utilized by the vast majority of dehumidifiers. It also allows for the cooling coil to operate at higher temperatures, increasing refrigeration efficiency and eliminating coil freezing concerns. Digital scroll compressor technology modulates to match the load of the incoming air to efficiently deliver the required leaving conditions. A small, dedicated exhaust fan is all that is required for energy recovery, resulting in very efficient operation.

The addition of total energy recovery to this dehumidification system provides for reduced heating and cooling requirements in the treatment of the delivered outside air. The resulting heating and cooling requirements are significantly lower than otherwise required.

The system includes a direct expansion refrigeration system with cooling coil, integrated condensing package, desiccant wheel, enthalpy wheel, supply, react and exhaust fan. Heating options include indirect fired gas, electric resistance, hot water, and steam.

The system controls leaving dew point and has optional space feedback to control space humidity. The unit also has optional night setback and BMS communications. The units can be installed indoor or outdoor with no requirement for split system conditioning, chilled water or condenser water. System sizes range from 1,350 to 16,000 cfm.



Munters DryCool ERV provides dehumidification with total energy recovery for supermarkets and many other building types.

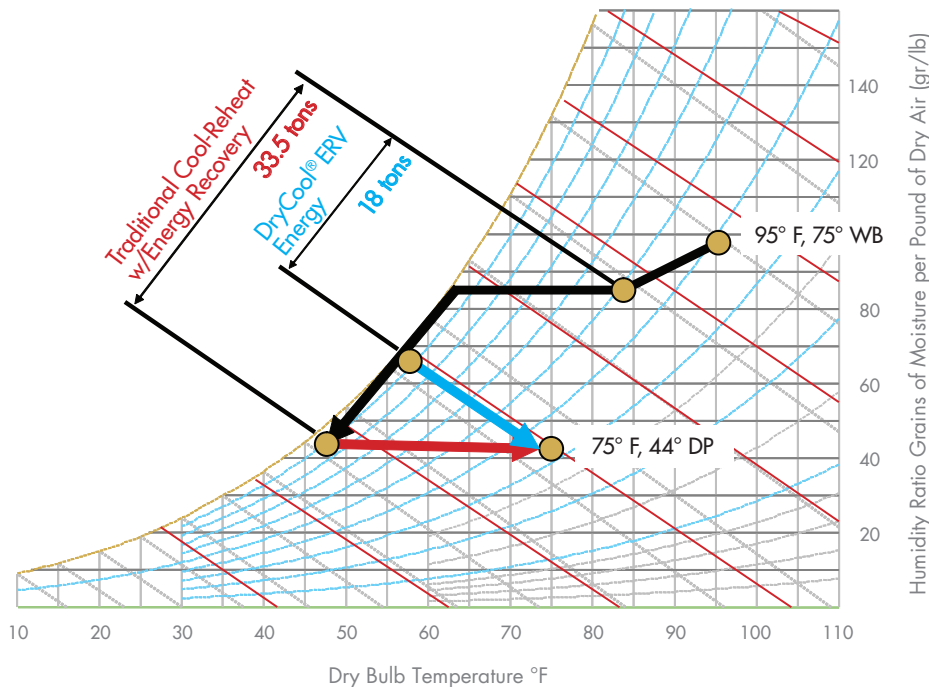
DryCool® ERV Technical Specifications

Unit	2508	3010	4012	4714	5416	6018	7020	8024	1026	1230	1440	1648
Nominal CFM	2,500	3,000	4,000	4,700	5,400	6,000	7,000	8,000	10,000	12,000	14,000	16,000
Compressor Tons	8	10	12	14	16	18	20	24	26	30	40	48
Total Capacity	172,688	207,225	276,300	324,653	373,005	414,450	483,525	552,600	632,400	734,458	967,050	1,105,200
Latent Capacity	121,388	145,665	194,220	228,209	262,197	291,330	339,885	388,440	441,582	513,976	679,770	776,880
Sensible Capacity	51,300	61,560	82,080	96,444	110,808	123,120	143,640	164,160	190,818	220,482	287,280	328,320
Leaving Conditions	Approximately 76°Fdb, 59.5°F wb, 48°F dp, 50 gr/lb **											
Dimensions (LxWxH)	203x65x57	203x65x57	188x65x72	234x96x72	234x96x72	234x96x72	264x96x87	264x96x87	372x127x102	372x127x102	372x127x102	372x127x102
Weight +/- 10%	4,200	4,200	6,250	7,300	7,300	7,300	11,000	11,000	13,700	13,700	16,500	16,500

* Does not include post heat options

** Leaving conditions are based on 95°Fdb, 78°F wb entering, 75°F, 50% rh exhaust condition

The Most Efficient Dedicated Outdoor Air System DryCool® ERV 6000 Operating Example



Standard Features

- 100% makeup air operation
- R-410a refrigerant
- HCR desiccant wheel
- Molecular sieve enthalpy wheel
- Scroll compressors
- Galvalume foam injected double wall construction
- Supply and exhaust fans
- Microprocessor controller
- PLC controller
- ETL listed

Unit Options

- Unoccupied mode/Night setback
- Corrosion resistant coil coatings
- Gas, electric, hot water, steam heat
- BMS interface
- Extended service plans



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