

DRYCOOL® ERV-FOCUS™

Desiccant dehumidifier

FEATURES/BENEFITS

- Delivers low dew point
- Increases cooling COP
- Requires only 50% exhaust minimum
- Equipped with EC fans
- Option for full compressor capacity in recirculation mode



DryCool® ERV-Focus™

Desiccant dehumidifier

Munters' DryCool ERV-Focus combines desiccant dehumidification with total energy recovery. This combination allows for reduced heating and cooling requirements in the treatment of the delivered outside air. The unit also eliminates the inefficient over-cool reheat process utilized by other systems. It allows for the cooling coil to operate at higher temperatures, which increases refrigeration efficiency and eliminates coil freezing concerns. A dedicated exhaust fan is all that is required for winter energy recovery, resulting in efficient operation.

The ERV-Focus offers much of the same features as the original, custom ERV system in a versatile package that can meet a variety of leaving conditions. It offers cooling options from 4.5 to 45 tons, and this additional tonnage is added to pre-cooling without negatively affecting unit size. The ERV-Focus can accommodate airflows from 2,000 to 10,000 cfm.

The ERV-Focus can satisfy applications needing a 45°F dew point and can also be configured to meet a 53°F dew point. For additional heat, the ERV-Focus can accommodate gas heat up to 800 mbh in the largest unit and electric heat up to 200kW. Direct drive electronically commutated (EC) fans are included as a standard to increase energy efficiency.

User controls are complete with a variety of airflow, ventilation, and space feedback options. The ERV-Focus controller will interface with typical building management system (BMS) communication protocols via BACnet (IP,MS/TP), LonWorks, or Modbus. A touch-panel, human-machine interface (HMI) is standard.



Munters DryCool ERV-Focus, provides dry, comfortable air with total energy recovery to many different building types, such as schools.

DryCool® ERV-Focus™ Technical Specifications

Unit	102	103	104
Nominal CFM (min - max)	2000 - 5,000	3,500 - 7,500	5,000 - 10,000
Compressor Tons (min - max)	4.5 - 23	7 - 35.5	10 - 45.5
Max Capacity (BTUH)	480,150	720,225	960,300
Max Latent Capacity (BTUH)	248,636	372,954	497,273
Max Sensible Capacity (BTUH)	231,514	347,271	463,027
Dimensions (LxWxH)	187x64x72	234x78x87	234x91x96
Weight +/- 10%	5,280	7,500	8,750

Max MRE in comparison to minimum standard

The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) Standard 90.1-2016 requires a minimum Integrated Seasonal Moisture Removal Efficiency (ISMRE) of 5.2 for Dedicated Outdoor Air Systems (DOAS) with exhaust air energy recovery.

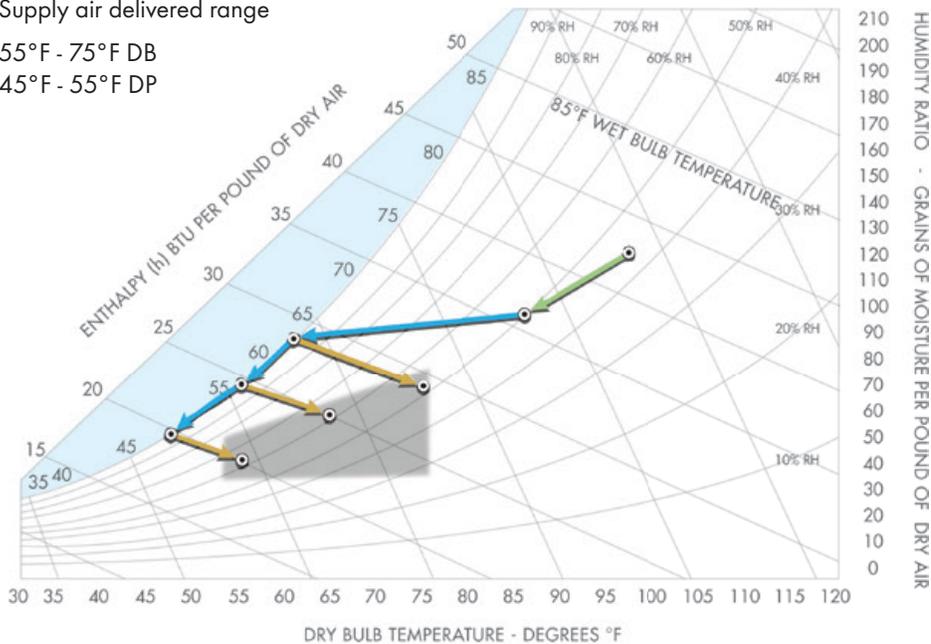
* Capacity calculated assuming 95° F DB and 78° F WB entering conditions.

Operating Example

Supply air delivered range

55° F - 75° F DB

45° F - 55° F DP



Standard Features

- Leaving temperature and dew point control
- 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
- Electronically commutated (EC) fans
- ETL and ETLc listed
- Dedicated reactivation circuit

Unit Options

- Unoccupied mode
- Corrosion-resistant coil coatings
- Gas and electric
- BMS interface
- Extended service plans
- CO₂ control
- Variable supply airflow options



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