

# EVAIR<sup>®</sup> DEHUMIDIFIER

*RQ Series*



### *RQ Series:*

- *UL rated and ETL listed*
- *MERV 13 filtration*
- *Digital control*
- *Integrated handles and hanging points*
- *Auto restart*
- *Environmentally-conscious refrigerant*

# SUSTAINED QUALITY AND DEPENDABILITY

## RQ SERIES DEHUMIDIFIERS

DriSteem offers a full line of refrigerant dehumidifiers to take on humidity in any size application, in a variety of environments such as storage, manufacturing, retail, education, water treatment facilities, and more. The RQ Series represents the highest-efficiency platform in the lineup, delivering maximum moisture-removal capacity per kWh while maintaining performance across the widest operating temperature range.

Our innovative design also creates the lightest heat load on your HVAC, pulls less energy, saving money on utility bills, and helps to prevent overload on your state's energy grid, often qualifying you for energy rebates. The compact mechanical design provides increased capacity within a smaller physical footprint, supporting more efficient space utilization in both retrofit and new-construction applications.



### Humidistat controllers

- Digital display of humidity and setpoint.
- Mount to wall or standard junction box.
- One universal input for a remote humidity sensor or use the on-board humidity sensor for control
- Input voltage of either 24VAC or 24VDC.
- One digital output for on/off control
- Basic BACnet® communications

Learn More



## WHY CHOOSE THE COMMERCIAL DEHUMIDIFICATION SYSTEM

### Why dehumidify?

- Condensation and frost protection
- Moisture regain control
- Mold, mildew, fungus protection
- Preservation - storage, equipment, etc.
- Process control

### Flexible

- Perfect for manufacturing, food processing, breweries, storage, etc. applications.
- Capacity from 100 pints/day to 730 pints/day @ 80°F, 60% RH
- Can be suspended or installed on ground level
- Ducting allows you to separate the unit from the environment, saving space and increasing ease of access

### Easy to maintain

- Removable access panel for easy, in-place maintenance and serviceability
- The self-sealing, MERV 13 air filter protects the unit's vital components, plus it's easy to replace.

## COMPREHENSIVE CONTROL WITH THE INTEGRATED DIGITAL CONTROLLER

The RQ series digital control panel delivers precise humidity management with:

- Adjustable RH setpoints in 1% increments
- Filter change and defrost notifications for easier maintenance
- Self-diagnostics to speed up service and reduce downtime
- Dark Mode for reducing light in sensitive environments
- Low voltage terminal block for optional external control connection, ideal for overhead installations



**Table 3-1:**  
**Evair Dehumidifier Product Specification@ 80°F / 60% RH**

|  | <b>Model RQ-4</b>               | <b>Model RQ-6</b>                                     | <b>Model RQ-9</b>                                     | <b>Model RQ-14</b>                                    | <b>Model RQ-21</b>                              | <b>Model RQ-31</b>  |
|--|---------------------------------|---|---|---|---|---|
| Water Removal (Pints/Day)<br>Efficiency (Pints/kWh) <sup>(1)</sup> | 100 Pints/Day<br>7.5 Pints/kWh  | 155 Pints/Day<br>8.5 Pints/kWh                        | 225 Pints/Day<br>7.6 Pints/kWh                        | 345 Pints/Day<br>8.0 Pints/kWh                        | 500 Pints/Day<br>9.2 Pints/kWh                  | 730 Pints/Day<br>8.3 Pints/kWh  |
| Supply voltage   | 110-120 Volt<br>1 Phase - 60 Hz | 110-120V<br>1 Phase - 60 Hz                           | 208V-230V<br>1 Phase - 60 Hz                          | 208V-230V -<br>1 Phase - 60 Hz                        | 208-230 VAC<br>1 Phase - 60 Hz                  | 480 VAC<br>3 Phase - 60 Hz  |
| CFM  | 280 @ 0.0" WG                   | 500 CFM @ 0.0"<br>WG (tested with<br>duct collars on) | 630 CFM @ 0.0"<br>WG (tested with<br>duct collars on) | 900 CFM @ 0.6"<br>WG (tested with<br>duct collars on) | 1150 @ 0.0" WG                                  | 1,650 @ 0.0"<br>WG  |
| Power  | 540 Watts                       | 750 Watts   | 1230 Watts  | 1700 Watts  | 2250 Watts                                      | 3,665 Watts   |
| Current Draw   | 5.0A                            | 6.9A @ 110V   | 5.5A @ 230V<br>6.1A @ 208V                            | 7.6A @ 230V<br>8.4A @ 208V                            | 9.9A @ 230V<br>10.9A @ 208V                     | 4.9A  |
| Rated Current Draw<br>(104°F   36%)                                | 9.1A                            | 8.0A  | 7.5A  | 11.3A @ 208V  | 15.3A @ 208V                                    | 7.1A  |
| Minimum Circuit Ampacity<br>(MCA)*                                 | 15A                             |   |   |   | 20A   | 15A   |
| Maximum Overcurrent<br>Protection (MOP)**                          | 15A                             |   |   | 25A   | 20A   | 15A   |
| Energy Factor (L/kWh)  | 3.5 L/kWh                       | 4 L/kWh   | 3.6 L/kWh   | 3.8 L/kWh   | 4.4 L/kWh                                       | 3.9 L/kWh   |
| Operating temperature  | 56°F Min – 95°F Max             |   |   |   |   |   |
| Air Filter (MERV-13) size  | 12" x 14" x 1"                  | 18" x 18" x 2"  |   | 22" x 20" x 2"  | 18" x 20" x 2" (Quantity 2)                     |   |
| Power Cord   | 10', 115 VAC,<br>Ground         | 14/3, SJTW,<br>120V-15A, 9'<br>NEMA 5-15P             | 6' 14/3 SJTW,<br>15A<br>NEMA 6-15P                    | 207/230V:<br>14/3, SJTW (6')<br>NEMA 6-15P            | 207/230V:<br>12/3, SJTW, 20A<br>(6') NEMA 6-20P | No cord;<br>hardwire only<br>Electrical<br>knockout size:<br>3/4" (1.094"<br>opening) |
| Drain Connection   | 3/4" Threaded NPT               |   |   |   |   |   |
| Refrigerant Type:<br>Refrigerant Amount:                           | R454B<br>1 lb 2 oz              | R454B<br>3 lb 4 oz                                    |   | R454B<br>3 lb 8 oz                                    | R454B<br>3 lb 14 oz                             | R454B<br>6 lb 8 oz  |
| Clearances (minimum<br>clearance on all sides)                     | 24" (36" intake side)           |   |   |   |   |   |

<sup>(1)</sup> Rated capacity and energy factor test done and current draw measured in accordance with AHAM DH-1 2008 at 80°F (26.7°C), 60% RH inlet air at 0.0 external static pressure.

\*MCA = Minimum Circuit Ampacity

This number provides a qualified electrician with the information needed to determine the minimum wire size used in the circuit that feeds a single dehumidifier.

\*\*MOP = Maximum Overcurrent Protection

This number provides a qualified electrician with the value of the maximum size circuit breaker that may be used to protect the circuit that feeds a dehumidifier.



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**Expect quality from the industry leader**

Since 1965, DriSteem has been leading the industry with creative and reliable humidification solutions. Our focus on ease of ownership is evident in the construction of DriSteem products. DriSteem leads the industry with a Two-year Limited Warranty and optional extended warranty.

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