Ultra-Aire™ 70H Ventilating Dehumidifier

Specification Data

**Capacities and Performance**

<table>
<thead>
<tr>
<th>Part Number:</th>
<th>4033730</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Blower:</strong></td>
<td>150 CFM @ 0.0” WG</td>
</tr>
<tr>
<td></td>
<td>140 CFM @ 0.2” WG</td>
</tr>
<tr>
<td></td>
<td>130 CFM @ 0.4” WG</td>
</tr>
<tr>
<td><strong>Power:</strong></td>
<td>580 Watts @ 80°F and 60% RH</td>
</tr>
<tr>
<td><strong>Supply Voltage:</strong></td>
<td>115 VAC – 1phase – 60 Hz</td>
</tr>
<tr>
<td><strong>Current Draw:</strong></td>
<td>5.1 Amps</td>
</tr>
<tr>
<td><strong>Transformer Protection:</strong></td>
<td>Push Button Reset (located near power cord)</td>
</tr>
<tr>
<td><strong>Circuit Requirement:</strong></td>
<td>15 Amps</td>
</tr>
<tr>
<td><strong>Energy Factor:</strong></td>
<td>2.4 L/kWh</td>
</tr>
<tr>
<td><strong>Operating Range:</strong></td>
<td>49°F Min, 95°F Max (Inlet Air Temperature)</td>
</tr>
<tr>
<td></td>
<td>34°F Min, 135°F Max (Outside Cabinet)</td>
</tr>
<tr>
<td><strong>Size:</strong></td>
<td>9” x 11” x 1”</td>
</tr>
</tbody>
</table>

**Optional Air Filters:**

- **MERV-11, Mini Pleat**
  - Efficiency: 65% ASHRAE Dust Spot
  - Size: 9” x 11” x 1”
- **MERV-14, Embossed Pleat (will need filter housing)**
  - Efficiency: 95% ASHRAE Dust Spot
  - Size: 20” x 24” x 4”

**Power Cord:**

9’, 115 VAC, Ground

**Internal Insulated Cabinet:**

Yes

**Drain Connection:**

3/4” Threaded Female NPT

**Refrigerant Type:**

R410A

**Refrigerant Amount:**

15 oz.

**Dimensions:**

<table>
<thead>
<tr>
<th>Unit With Collars</th>
<th>Unit Without Collars</th>
<th>Shipping</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width: 12”</td>
<td>12”</td>
<td>15 5/8”</td>
</tr>
<tr>
<td>Height: 12”</td>
<td>12”</td>
<td>16”</td>
</tr>
<tr>
<td>Length: 28”</td>
<td>22”</td>
<td>31 5/8”</td>
</tr>
<tr>
<td>Weight: 55 lbs.</td>
<td>54 lbs.</td>
<td>65 lbs.</td>
</tr>
</tbody>
</table>

**DEH 3000 Control**

- Digital Control of Relative Humidity
- Fan/Filter Operation
- Programmable Ventilation Timer
- Large, easy-to-read backlit LCD display
- Easy interaction with air handler fan
- High Temperature Cut-Out
- Dryout Cycle Timer
- Auto Reboot
- Remote Sensor (DEH 3000R Only)

**Optional Accessories**

- 4028539 DEH 3000 Control
- 4028407 DEH 3000R Control (with remote)
- 4037724 MERV-13 Filter (9” x 11” x 1”)
- 4037735 MERV-13 Filters 4-Pack
- 4037736 MERV-13 Filters 12-Pack
- 4030671 MERV-11 Filter (9” x 11” x 1”)
- 4030734 MERV-11 Filters 4-Pack
- 4030733 MERV-11 Filters 12-Pack
- 4025287 MERV-14 Filter Housing
- 4024370 MERV-14 Filter (20” x 24” x 4”)
- 4029087 MERV-14 Filters 3-Pack
- 4030113 Pump Kit
- 4036695 Hang Kit
- 4023672 6” Motorized Damper
- 4026859 6” Flex Duct 25’
- 4020128 6” Flex Insulated Duct 25’
- 4020656 6” Inlet Hood
- 4023647 8” Gravity Damper
- 4027415 8” Flex Duct 25’
- 4020177 8” Flex Insulated Duct 25’

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Recommended Installations

**Dedicated Return to HVAC Supply**
- Create a separate return for the Ultra-Aire 70H in a central area of the building.
- Duct the supply of the Ultra-Aire 70H to the air supply of the HVAC system with a backdraft damper.

**Basement / Crawl Space - Dedicated Return to HVAC Supply**
- Duct the supply of the Ultra-Aire 70H to a 8” x 8” x 8” tee damper that is 20 percent open to the basement.
- Duct the other side of the tee to the air supply of the existing HVAC system with a backdraft damper.

Alternative Installations

**Dedicated Return to HVAC Return**
- Create a separate return for the Ultra-Aire 70H in a central area of the building.
- Installing the supply air from the Ultra-Aire 70H in the return of the HVAC system requires the HVAC fan to run when the Ultra-Aire 70H is operating.

**HVAC Return to HVAC Supply**
- Check Damper should be in place between the Return and Supply connections of the dehumidifier.
- If Check Damper is not in place, the HVAC fan must turn on when the dehumidifier is in operation.

**HVAC Return to HVAC Return**
- Check Damper should be in place between the Return and Supply connections of the dehumidifier.
- If Check Damper is not in place, the HVAC fan must turn on when the dehumidifier is in operation.