**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity (1)</td>
<td>70 ppd</td>
</tr>
<tr>
<td>Energy Factor (1)</td>
<td>2.1 L/kW-h</td>
</tr>
<tr>
<td>Airflow @ varying E.S.P.</td>
<td></td>
</tr>
<tr>
<td>(external static pressure - dry coil)</td>
<td></td>
</tr>
<tr>
<td>0.0” w.c.</td>
<td>200 CFM</td>
</tr>
<tr>
<td>0.2” w.c.</td>
<td>170 CFM</td>
</tr>
<tr>
<td>0.4” w.c.</td>
<td>140 CFM</td>
</tr>
<tr>
<td>Voltage, phase, frequency</td>
<td>120VAC, 1 phase, 60 Hz</td>
</tr>
<tr>
<td>Current draw (1)</td>
<td>5.8 Amps</td>
</tr>
<tr>
<td>Noise</td>
<td></td>
</tr>
<tr>
<td>Dimensions:</td>
<td></td>
</tr>
<tr>
<td>(cabinet only) (2)</td>
<td>Width: 12½”</td>
</tr>
<tr>
<td></td>
<td>Height: 12½”</td>
</tr>
<tr>
<td></td>
<td>Length: 25”</td>
</tr>
<tr>
<td>Weight</td>
<td>56 lbs.</td>
</tr>
<tr>
<td>Inlet air operating conditions</td>
<td></td>
</tr>
<tr>
<td>-Dehumidification:</td>
<td>50°F–104°F, 40°F dew point min.</td>
</tr>
<tr>
<td>-Ventilation:</td>
<td>40°F–140°F, 0%–99% RH (non-condensing)</td>
</tr>
</tbody>
</table>

1) Rated capacity, energy factor and current draw measured at 80°F/60% RH inlet air at 0.0 ESP.
2) Height does not include adjustable feet. The width excludes the filter doors and length excludes the duct collars.

**FEATURES**

- Control (3) Built-in digital control with display
- Control mounting option Front mount only
- Cabinet insulation ½” EPS
- Air discharge orientation End of cabinet only
- Inlet/Outlet duct collars 8” dia.
- Backdraft damper at outlet N/A
- Filter ½” washable MERV 8
- Refrigerant R410A
- Coil type Corrosion-resistant aluminum
- 8’ Power cord Plug type
- Hardwire option No
- Discharge air temperature rise 10°F–30°F
- Drain connection (3) ¾” MNPT Threaded
- Included drain tubing 10’ length
- Warranty 5 Years

1) Built-in automatic control capable to be set up for dehumidification and ventilation or zoning.
2) Adapters for threaded connection for plastic hose included.

**PRINCIPLE OF OPERATION**

The Aprilaire Model 1820 Crawl Space Dehumidifier is designed to dehumidify the air coming into the unit by passing the incoming air over an evaporator coil to drop the air temperature below the dew point of the air. Moisture is removed from the air and drained out of the unit to a common floor or waste drain. The air is then reheated in the condenser coil and exits the unit.

Dehumidification occurs until the set point is reached, then shuts off until periodic sampling determines a need for operation.

**APPLICATION**

The Aprilaire Model 1820 Crawl Space Dehumidifier is the perfect solution for controlling humidity in crawl spaces; protecting against structural damage, pests and mold.

**CIRCULATION**

The Model 1820 can also be programmed to circulate the air within a crawl space. Circulating the air evens out relative humidity levels and temperature in the space, eliminating variations in the environment.
INSTALL APPLICATION

Inlet and Outlet ducted
- Ducted with 8” flex duct or hard pipe.
- Helps circulate air to equalize humidity and temperature in the space.
- Can be used with the Model 5822 Hanging Kit for installations that require the unit to be off the floor.

Optional Accessories

Model 5822 Hanging Kit
- Weight: 3 lbs.
- Supports up to 200 lbs.

Model 4856 Condensate Pump
- 22 ft. lift
- Low profile
- 120 V

Model 5427 Crawl Space Alert
- 40’ cables with LED
- LED illuminates when the dehumidification set point can’t be reached or when service is required
- Provides customer peace of mind knowing the dehumidifier is functioning properly

Optional Wall-Mount Controls

Model 8620/8620W with IAQ Control
- Universal 2H/2C or 4H/2C HP
- Event-Based™ Air Cleaning
- Humidity or Ventilation
- Touch screen
- Wi-Fi (8620W only)

Model 8910/8910W with IAQ Control
- Universal 3H/3C or 4H/2C HP
- Event-Based™ Air Cleaning
- Humidity and Ventilation
- 2-Part 3-Wire design
- Touch screen
- Wi-Fi (8910W only)

Model 8920W with IAQ Control
- Universal 3H/3C or 4H/2C HP
- Event-Based™ Air Cleaning
- Humidity and Ventilation
- 2-Part 3-Wire design
- Full-color touch screen
- Wi-Fi

Model 76 Wall Mount Dehumidifier Control
- On, Off buttons
- Wall-mounted living space control
- Displays RH and controls to an RH value
- Remote control for crawl space applications and sealed attics

MODEL 76 SPECIFICATIONS

<table>
<thead>
<tr>
<th>Electrical</th>
<th>External</th>
<th>Remote</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input voltage and current</td>
<td>Voltage: 24VAC +/20% Current: 25mA (nominal), 50mA (max.) at 24VAC</td>
<td>Voltage: 35VDC (supplied by dehumidifier control board)</td>
</tr>
<tr>
<td>Output</td>
<td>Dry contact, normally open</td>
<td>Communication (RS485)</td>
</tr>
<tr>
<td>Control</td>
<td>External</td>
<td>Remote</td>
</tr>
<tr>
<td>Control range</td>
<td>40% 80% RH</td>
<td>1 (less dry)–7 (more dry) 65°F–40°F dew point</td>
</tr>
<tr>
<td>Accuracy</td>
<td>+/-5% RH</td>
<td>See dehumidifier specifications</td>
</tr>
<tr>
<td>Differential</td>
<td>3% RH</td>
<td></td>
</tr>
<tr>
<td>Low limit</td>
<td>40°F dew point</td>
<td>50°F dry bulb, 40°F dew point min.</td>
</tr>
<tr>
<td>High limit</td>
<td>99°F dry bulb</td>
<td>105°F dry bulb</td>
</tr>
</tbody>
</table>