

Dehumidifier

Model 1830 | Specification Sheet

| SPECIFICATIONS | | | | |
|--|------------------|--------------------------------|--------------------|--|
| Capacity ⁽¹⁾ | | 70 j | 70 ppd | |
| Energy Factor (1) | | 1.91 L | 1.91 L/kW-h | |
| Airflow @ varying E. (external static press | | | | |
| | 0.0" w.c. | 160 | 160 CFM | |
| | 0.2" w.c. | 120 | 120 CFM | |
| | 0.4" w.c. | 75 | CFM | |
| Voltage, phase, frequency | | 120VAC, | 120VAC, 1, 60 Hz | |
| Current draw 🕫 | | 6.3 4 | 6.3 Amps | |
| Noise | | 47 dBA ducted | 51 dBA unducted | |
| Dimensions: | Width | 12½" | | |
| (cabinet only) (2) | Height | 14 | 14½″ | |
| | Length | 25″ | | |
| Weight | | 67 | 67 lbs. | |
| Inlet air operating co | onditions during | 1 | | |
| -Dehumidification: | | 50°F - 10 | 50°F – 104°F, 40°F | |
| | | dew point min. | | |
| -Ventilation: | | | 40°F – 140°F, | |
| | | 0% - 99%RH (non-condensing) | | |

 $^{(1)}$ Rated capacity and energy factor test done and current draw measured in accordance with AHAM DH-1 2008 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 | | | | |
|--------------------------------|---------------------------------------|--|--|--|
| Controls (3) | Built-in digital control with display | | | |
| Control mounting option | Top or front mounting options | | | |
| Cabinet insulation | ½" EPS | | | |
| Air discharge orientation | Top or end | | | |
| Inlet/Outlet duct collars | 10" dia. | | | |
| Backdraft damper at outlet | Included | | | |
| Filter | $\frac{1}{2}$ " washable, MERV 8 | | | |
| Refrigerant | R410A | | | |
| Coil corrosion resistance | Aluminum | | | |
| 8' Power cord | Plug type | | | |
| Hardwire option | Yes, field configurable | | | |
| Discharge air temperature rise | 10°F – 30°F | | | |
| Drain connection (4) | 3⁄4" MNPT Threaded | | | |
| Warranty | 5 Years | | | |

⁽³⁾ Built-in automatic control capable to be set up for dehumidification and ventilation or zoning. (4) Adapters for threaded connection or plastic hose included.



PRINCIPLE OF OPERATION

The Aprilaire Model 1830 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

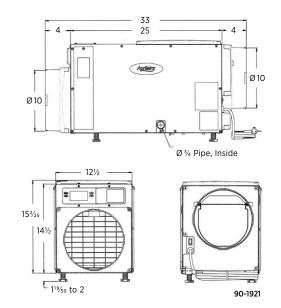
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The Aprilaire Model 1830 is perfect for a wide range of applications including whole-home dehumidification and control of moisture in basements and crawl spaces.

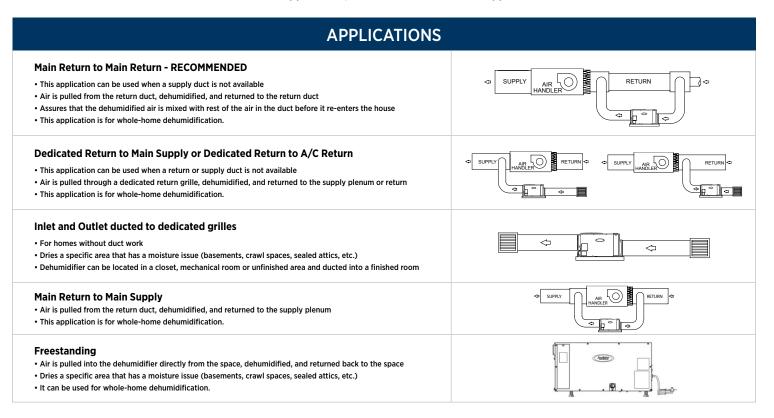
CIRCULATION

The Model 1830 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.



Installation Options For the Aprilaire 1830 Dehumidifiers

Shown in horizontal applications, can be installed in vertical applications as well.



Optional Wall-Mount Controls



Model 8620/8620W with IAQ Control

- Universal 2H/2C or 4H/2C HP
- Universal 2H/2C or 4H/2C F
- Event-Based[™] Air Cleaning
 Humidity or Ventilation
- Wi-Fi touch screen (8620W)





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
- Wi-Fi touch screen (8910W)

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 Wi-Fi touch screen



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

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