

SPECIFICATIONS

Capacity ⁽¹⁾	70 ppd	
Energy Factor ⁽¹⁾	2.1 L/kW-h	
Airflow @ varying E.S.P. (external static pressure - dry coil)		
	0.0" w.c.	200 CFM
	0.2" w.c.	170 CFM
	0.4" w.c.	140 CFM
Voltage, phase, frequency	120VAC, 1 phase, 60 Hz	
Current draw ⁽¹⁾	5.8 Amps	
Noise	53 dBA ducted	58 dBA unducted
Dimensions: (cabinet only) ⁽²⁾	Width	12½"
	Height	12½"
	Length	25"
Weight	56 lbs.	
Inlet air operating conditions during		
-Dehumidification:	50°F-104°F, 40°F dew point min.	
-Ventilation:	40°F-140°F, 0%-99% RH (non-condensing)	

⁽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 ⁽⁴⁾	¾" MNPT Threaded
Included drain tubing	10' length
Warranty	5 Years

⁽³⁾Built-in automatic control capable to be set up for dehumidification and ventilation or zoning.

⁽⁴⁾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.

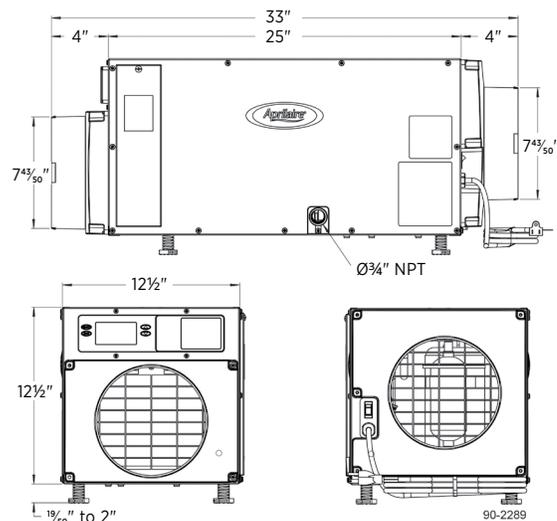
Dehumidification occurs until the set point is reached, then shuts off until periodic sampling determines a need for operation.

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' cable 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 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 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 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 specifications
Differential	3% RH	
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