DEHUMIDIFIER MODEL 1830 SERIES SPECIFICATION SHEET

SPECIFICATIONS					
Capacity ⁽¹⁾		70	70 ppd		
Energy Factor (1)		1.91 L/kW-h			
Airflow @ varying (external static pre		oil)			
	0.0" w.c.	160	160 CFM		
	0.2" w.c.	120 (120 CFM		
	0.4" w.c.	70 C	FM		
Voltage, phase, frequency		120VA	120VAC, 1, 60 Hz		
Current draw (1)		6.3 Amps			
Noise		47 dBA ducted	17 dBA ducted 51 dBA unducted		
Dimensions:	Width	12.	12.5"		
(cabinet only) (2)	Height	14.	14.5"		
	Length	25	25"		
Weight		67 I	67 lbs		
	nlet 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 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 top or front mounting options			
Cabinet insulation	1/2" EPS			
Air discharge orientation	Top or end			
Inlet/Outlet duct collars	10" dia.			
Backdraft damper at outlet	included			
Filter	1/2" washable, MERV 8			
Refrigerant	R410A			
Coil corrosion resistance	E-Coated coil			
Power cord	Plug type			
Hardwire option (4)	Yes, field configurable			
Discharge air temperature rise	10°F-30°F			
Drain connection (5)	3/4" PVC adapters			
Warranty	5 Years			

⁽³⁾ Built-in automatic control capable to be set up for dehumidification, humidification, and ventilation or zoning. (4) Model 1830 is a hardwired unit and doesn't ship with a power cord. The Model 1830 has a 4 week lead time. (5) Adapters for threaded connection or plastic hose included. 1830 includes 5' of clear drain tubing.





▶ 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.

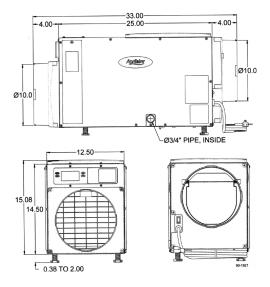
Dehumidification occurs until the set point is reached, then shuts off until periodic sampling determines a need for operation

APPLICATION

The Aprilaire Model 1830 Dehumidifier is the perfect product for the dehumidification of whole-homes, basements, crawlspaces and sealed attics.

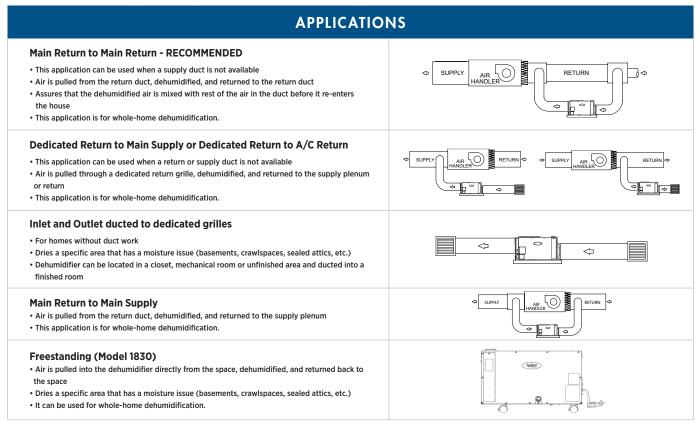
VENTILATION

The Model 1830 has the ability to bring in fresh air. Fresh air will dilute stale air and pollutants and will reduce humidity in the winter months. The fresh air is brought in through a 6" round duct and 6" round normally closed damper. The dehumidifier has built in controls to adjust the amount of fresh air that is brought in.



INSTALLATION OPTIONS FOR THE APRILAIRE 1830 SERIES 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
- 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





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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 crawlspace 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 specifications	
Differential	3% RH		
Low limit	40°F dew point	50°F dry bulb, 40°F dew point minimum	
High limit	99°F dry bulb	105°F dry bulb	