

## **Dehumidifier**

Model 1850 Series | Specification Sheet

SPECIFICATIONS				
Model		1850/1850W (ducted)	1850F (freestanding)	
Capacity <sup>(1)</sup>		95 ppd		
Energy Factor (1)		2.2 L/kW-h		
Airflow @ varyin (external static p	_	ry coil)		
0.0" w.c.		265 CFM	245 CFM	
0.2" w.c.		230 CFM		
0.4" w.c.		200 CFM		
Voltage, phase, frequency		120VAC, 1, 60 Hz		
Current draw (1)		8.0 Amps		
Noise		54 dBA ducted 60 dBA		
Dimensions: (cabinet only) <sup>(2)</sup>	Width	12½"	12½"	
	Height	14½"	14½" cabinet 17" (w/ casters	
	Length	27½"	27½"	
Weight		70 lbs		
Inlet air operating condition -Dehumidification:		s during 50°F - 104°F, 40°F dew point min.		
-Ventilation:		40°F - 140°F, 0% - 99%RH (non-condensing)		

<sup>&</sup>lt;sup>(1)</sup> 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. <sup>(2)</sup> Height does not include adjustable feet. The width excludes the filter doors and length excludes the duct collars.

FEATURES				
Model	1850/1850W (ducted)	1850F (freestanding)		
Controls (3)	Built-in digital control with display			
Control mounting option	Field interchangea from top to front	able Top only		
Cabinet insulation	½" EPS			
Air discharge orientation	Top or end	End		
Inlet/Outlet duct collars	10" dia.	N/A		
Backdraft damper at outlet	Included	N/A		
Filter	Washable MERV 8			
Refrigerant	R410A			
Coil corrosionresistance		E-Coated coil		
8' Power cord (4)	1850 Plug Type/ 1850W Hard wired	d Plug Type		
Discharge air temperature rise		10°F-30°F		
Drain connection (5)	3/4"	MNPT Threaded		
Warranty	5 Years			

<sup>(5)</sup> Built-in automatic control capable to be set up for dehumidification and ventilation or zoning.
(4) Model 1850W is a hardwired unit and doesn't ship with a power cord. (5) Threaded barbed



### PRINCIPLE OF OPERATION

The Aprilaire Model 1850 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.

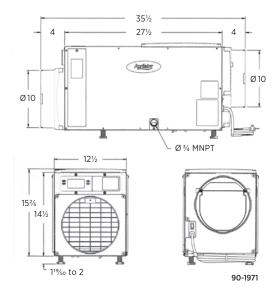
Dehumidification occurs until the set point is reached, then shuts off until periodic sampling determines a need for operation.

### APPLICATION

The Aprilaire Model 1850 Dehumidifier is the perfect solution for controlling humidity in crawlspaces; protecting against structural damage, pests and mold.

#### CIRCULATION

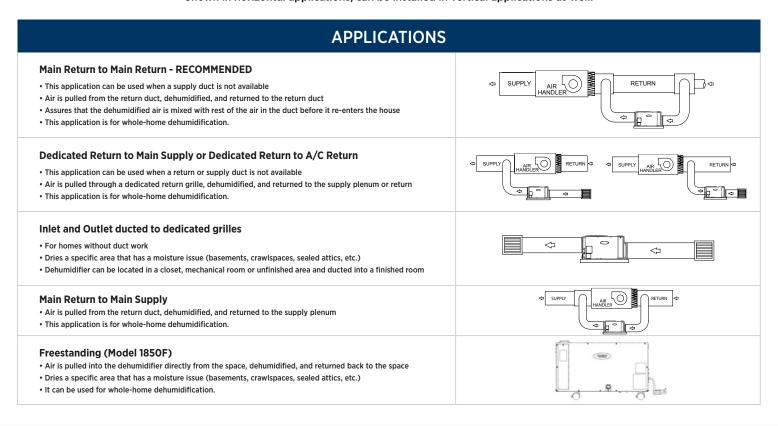
The Model 1850 can also be programmed to circulate the air within a crawlspace. Circulating the air evens out relative humidity levels and temperature in the space, eliminating variations in the environment.



fitting included. 1850F includes 5' of clear drain tubing.

## Installation Options For the Aprilaire 1850 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<sup>™</sup> 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 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 min.		
High limit	99°F dry bulb	105°F dry bulb		



