

Dehumidifier

Model 1850 Series | Specification Sheet

SPECIFICATIONS				
Model	1850/1850W	1852		
Capacity ⁽¹⁾	95 ppd			
Energy Factor ⁽¹⁾	2.2 L/kW-h			
Airflow @ varying E.S.P. (external static pressure - dry	/ coil)			
0.0" w.c.	265 CFM	265 CFM		
0.2" w.c.	230 CFM	230 CFM		
0.4" w.c.	200 CFM	200 CFM		
Voltage, phase, frequency	120VAC, 1, 60 Hz			
Current draw ⁽¹⁾	8.0 Amps			
Noise	54 dBA ducted			
Dimensions: (cabinet only) ⁽²⁾	Width: 121/2"			
	Height: 14½"			
	Length: 27½"			
Weight	70 lbs.			
Inlet air operating conditions	during			
-Dehumidification:	50°F-104°F, 40°F			
-Denamianication.	dew point min.			
-Ventilation:	40°F-140°F, 0%	-99% RH		
ventuation.	(non-condonsing)			

⁽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⁾For actual height, add up to 2" to account for adjustable leveling feet or 2%" for casters. The width excludes the filter doors and length excludes the duct collars.

(non-condensing)

	FEATURES		
Model	1850/1850W	1852	
Casters or leveling feet	Leveling feet	Casters	
Control ⁽³⁾	Built-in digital control with display		
Control mounting option	Field interchangeable from top to front		
Cabinet insulation	½" EPS		
Air discharge orientation	Top or end		
Inlet/Outlet duct collars	10" dia.		
Backdraft damper at outlet	Included		
Filter	Washable MERV 8		
Refrigerant	R410A		
Coil type	Corrosion resistant aluminum		
8' Power cord(4)	1850 Plug Type/ 1850W Hard wired	Plug Type	
Discharge air temperature rise	10°F-30°F		
Drain connection(5)	3/4" MNPT Threaded		
Warranty	5 Years		

[©]Built-in automatic control capable to be set up for dehumidification and ventilation or zoning. [©]Model 1850W is a hardwired unit and doesn't ship with a power cord. [©]Threaded barbed fitting included. 1852 includes 5' of clear drain tubing.





PRINCIPLE OF OPERATION

The Aprilaire 1850 Series Dehumidifiers are 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.

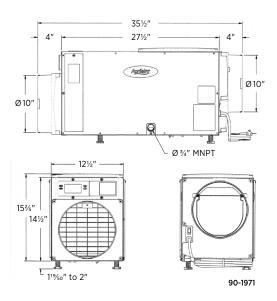
Dehumidification occurs until the set point is reached, then shuts off until periodic sampling determines a need for operation.

APPLICATION

The 1850 series is perfect for a wide range of applications including whole-home dehumidification and control of moisture in basements and crawl spaces.

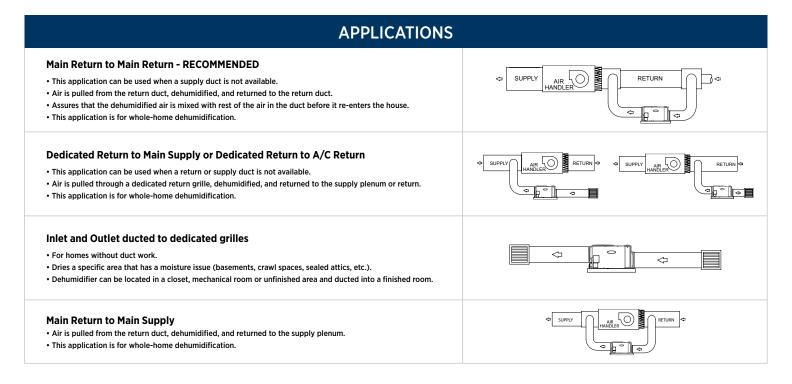
CIRCULATION

The 1850 series can also be programmed to circulate air, which evens out relative humidity levels and temperature in the treated space, eliminating variations in the environment.



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™ 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 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		

