

DEHUMIDIFIER MODEL 1850 SERIES SPECIFICATION SHEET

SPECIFICATIONS

Model	1850/1850W (ducted)	1850F (freestanding)
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	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) ⁽²⁾		
Width	12.5"	12.5"
Height	14.5"	14.5" cabinet 17" (w/ casters)
Length	27.5"	27.5"
Weight	70 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 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

Model	1850/1850W (ducted)	1850F (freestanding)
Controls ⁽³⁾	Built-in digital control with display	
Control mounting option	Field interchangeable from top to front	Top only
Cabinet insulation	1/2" 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	Plug Type
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 1850W is a hardwired unit and doesn't ship with a power cord. The Model 1850W has a 4 week lead time. ⁽⁵⁾ Adapters for threaded connection or plastic hose included. 1850F includes 5' of clear drain tubing.



Model 1850F



Model 1850

PRINCIPLE OF OPERATION

The Aprilaire Model 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 Aprilaire Model 1850 Series Dehumidifiers are the perfect product for the dehumidification of whole-homes, basements, crawlspaces and sealed attics.

VENTILATION

The Model 1850 and 1850W have 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.

