

### **Dehumidifier**

Model 1870 Series | Specification Sheet

SPECIFICATIONS				
Model	1870 / 1870W	1872		
Capacity <sup>(1)</sup>	130 ppd			
Energy Factor <sup>(1)</sup>	2.9 L/kW-h			
Airflow @ varying E.S.P. (external static pressure - dry	/ coil)			
0.0" w.c.	310 CFM			
0.2" w.c.	267 CFM			
0.4" w.c.	226 CFM			
0.6" w.c.	178 CFM			
oltage, phase, frequency	120VAC, 1, 60 Hz			
urrent draw <sup>(1)</sup>	8.3 Amps			
loise	50 dBA ducted			
	Width	n: 19½"		
Dimensions: (cabinet only) <sup>(2)</sup>	Height: 18¾"			
	Length: 30"			
Weight	113 lbs.	114 lbs		
nlet air operating conditions	during			
-Dehumidification:	50°F-104°F, 40°F			
	dew point min.			
-Ventilation:	40°F-140°F, 0%-99% RH			

 $<sup>^{(1)}</sup>$ 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.  $^{(2)}$ For actual height, add up to 2" to account for adjustable leveling feet or  $2\frac{1}{2}$ " for casters. The width excludes the filter doors and length excludes the duct collars.

(non-condensing)

-Ventilation:

FEATURES				
Model	1870 / 1870W	1872		
Casters or leveling feet	Leveling feet	Casters		
Control <sup>(3)</sup>	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)	1870 Plug Type/ 1870W Hard wired	Plug Type		
Discharge air temperature rise	10°F-30°F			
Drain connection(5)	3/4" MNPT Threaded			
Warranty	5 Years			

<sup>&</sup>lt;sup>©</sup>Built-in automatic control capable to be set up for dehumidification and ventilation or zoning. <sup>©</sup>Model 1870W is a hardwired unit and doesn't ship with a power cord. <sup>©</sup>Threaded barbed fitting included. 1872 includes 5' of clear drain tubing.



#### PRINCIPLE OF OPERATION

The Aprilaire Model 1870 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.

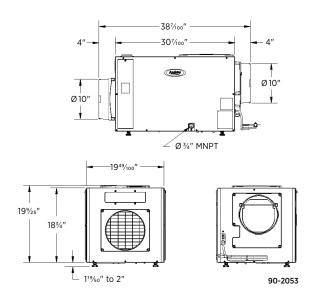
Dehumidification occurs until the set point is reached, then shuts off until periodic sampling determines a need for operation.

#### APPLICATION

The Aprilaire Model 1870 is perfect for a wide range of applications including whole-home dehumidification and control of moisture in basements and crawl spaces.

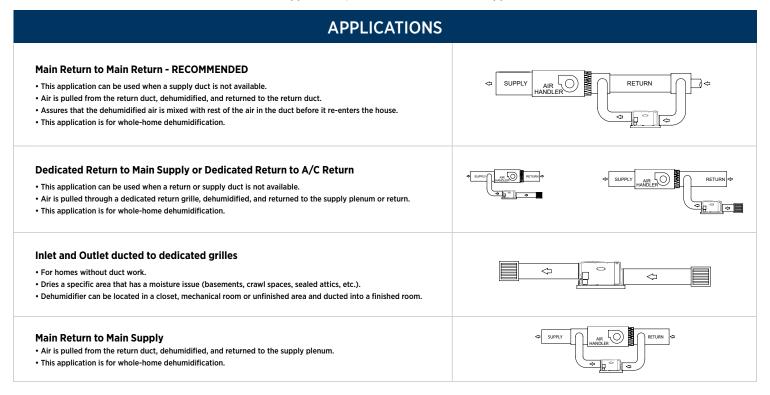
#### CIRCULATION

The Model 1870 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.



### Installation Options For the Aprilaire 1870 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	

