# AprilAire Dehumidifier

## FEATURES

- Comes with either leveling feet (E100/E100H) or casters (E100C)
- Built-in automatic digital control with display. Can be set up for dehumidification and ventilation or zoning.
- Control mounting option is field-interchangeable from top to front
- ½" EPS cabinet insulation
- Top or end air discharge orientation
- Washable MERV 8 filter (part number 5881) and 10" diameter inlet/outlet duct collars
- Backdraft damper at outlet
- R410A refrigerant
- Corrosion-resistant aluminum coils
- 8' power cord (E100 & E100C only plug type; E100H is a hardwired unit and doesn't ship with a power cord)
- 10°F-30°F discharge air temperature rise
- %" MNPT Threaded drain connection with threaded barbed fitting included
- 10' drain tubing (included with E100C only)
- 5-year warranty

SPECIFICATIONS		
Capacity	@ 80°F/60% RH @ 73°F/60% RH	100 ppd 85 ppd
Energy Factor kW-h	@ 80°F/60% RH @ 73°F/60% RH	2.6 L/KW-h 2.35 L/KW-h
Airflow @ varying E.S.P. (external static pressure - dry coil)	0.0″ w.c. 0.2″ w.c. 0.4″ w.c.	280 CFM 245 CFM 210 CFM
Voltage, phase, frequency	120VAC, 1 phase, 60 Hz	
Current draw <sup>®</sup>	6.9 Amps	
Noise	55 dBA ducted	
Dimensions (cabinet only)®	Width: 14", Height: 15", Length: 26"	
Unit Weight Shipping Weight	64 lbs. 82 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)

<sup>(I)</sup>Reted capacity, energy factor and current draw measured at 80%/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 dust collars.

## SPECIFICATION SHEET Model E100

Dehumidifier

E100: Includes 8 ft. power cord

E100C: Uses casters instead of leveling feet

E100H: Terminal connection for hardwiring





MODELS:





#### **PRINCIPLE OF OPERATION**

The Aprilaire E100 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.

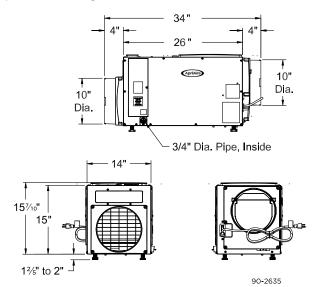
Dehumidification occurs until the set point is reached, then shuts off until periodic sampling determines a need for operation.

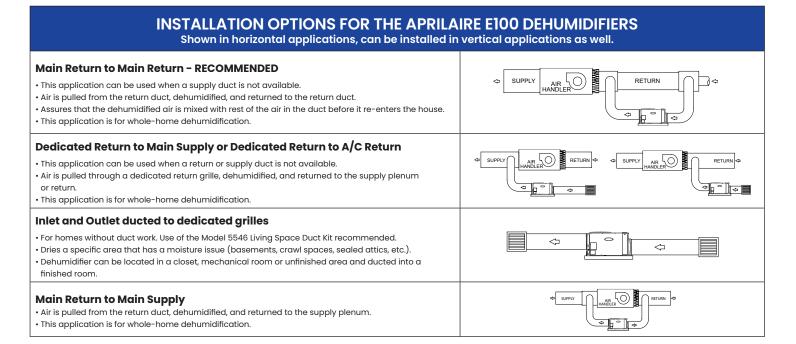
#### **APPLICATION**

The E100 Dehumidifiers are perfect for a wide range of applications including whole-home dehumidification and control of moisture in basements and crawl spaces.

#### CIRCULATION

The Model E100 can also be programmed to circulate air, which evens out relative humidity levels and temperature in the treated space, eliminating variations in the environment.





### **OPTIONAL ACCESSORIES**



#### Model 5822 Hanging Kit

27" W x 3" H x 38" L Weight: 18 lbs. Working Load: 400 lbs.



#### **Model 5546** Living Space Duct Kit

See dedicated grilles installation example above.



#### Model 8620/8620W with IAQ Control

- Universal 2H/2C or 4H/2C HP
- Event-Based™ Air Cleaning
- Humidity or Ventilation
- Touch screen
- Wi-Fi (8620W only)



#### 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
- Touch screen
- Wi-Fi (8910W only)

**Model 8920W** with IAO Control • Universal 3H/3C or 4H/2C HP

- Event-Based™ Air Cleaning
- Humidity and Ventilation 2-Part 3-Wire design
- Full-color touch screen
- Wi-Fi



#### Model 76 Wall Mount Dehumidifier Control

- Wall-mounted living space control
- Displays RH and controls to an RH value
- Remote control for crawl space

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	

**MODEL 76 SPECIFICATIONS** 

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**OPTIONAL WALL-MOUNT CONTROLS** 

- On, Off buttons
- applications and sealed attics