AprilAire®

Model
E100W
Wi-Fi Dehumidifier

5 YEAR WARRANTY · DESIGNED & ASSEMBLED IN THE USA UTILIZING U.S. AND GLOBAL COMPONENTS · WiFi ENABLED · R32 · c ETL us LISTED Intertek · Most Efficient 2025 ENERGY STAR www.energystar.gov

Project: _____ Dealer: _____
Architect: _____ Engineer: _____
Contractor: _____ Location: _____
Suppliers: _____ Date: _____

Specifications

Capacity(1)	@ 80ºF/60% RH @ 73ºF/60% RH	100 ppd 85 ppd
Energy factor(1)	@ 80ºF/60% RH @ 73ºF/60% RH	2.6 L/kW-h 2.35 L/kW-h
Airflow @ varying E.S.P. (external static pressure - dry coil)	0.0" WC 0.2" WC 0.4" WC	280 CFM 245 CFM 210 CFM
Voltage, phase, frequency	120VAC, 1 phase, 60Hz	
Current draw(1)	6.7 Amps	
Noise	55 dBA ducted	
Dimensions (cabinet only)(2)	Width: 14" Height: 15" Length: 26"	
Unit Weight **Shipping Weight**	64 lbs. 82 lbs.	
Leveling Feet	Yes	
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 (Part Number 5881)	
Refrigerant	R32	
Coil type	Corrosion-resistant aluminum	
8' Power cord	Plug type	
Discharge air temperature rise	10ºF–30ºF	
Drain connection(4)	¾" MNPT Threaded	
Warranty	5 Years	

Principle of Operation

The AprilAire Model E100W Wi-Fi Dehumidifier features Wi-Fi enabled technology which offers easy installation, setup, and pairing. The AprilAire Model E100W Dehumidifier is designed to dehumidify the air coming into the unit by passing the incoming air over an evaporator coil, dropping the air temperature below the dew point. The moisture is removed from the air and drains out of the dehumidifier to a common floor or waste drain. The air is then reheated in the condenser coil and exits the unit.

Dehumidification occurs until the relative humidity (%RH) setting is reached. The unit then shuts off until periodic sampling determines the need for dehumidification. The integrated digital display and control monitors the %RH during sampling of the incoming room or HVAC return air.

Application

The AprilAire E100W Dehumidifier is the perfect product for whole-home dehumidification, basements, crawl spaces and sealed attics.

The AprilAire Model E100W Wi-Fi Dehumidifier offers:

- Turn-Key Provisioning: Built-in control w/bluetooth
- Intuitive Controls: Enhanced, digital interface and app integration for ongoing monitoring and maintenance
- Integration with AprilAire Healthy Air App for alerts, diagnosis, and updates.

Ventilation

The E100W has the ability to bring in fresh, outdoor air into the living space. Fresh air will dilute stale air and pollutants and will reduce humidity in the winter months. If the humidity level of the outdoor air higher than the %RH setting, the dehumidifier will begin dehumidification to reduce the humidity in the home to set humidity level. The outdoor fresh air is brought in through 6" round duct with a 6" round, normally closed damper. This complies with ASHRAE 62.2, Energy Star, and International Residential Code (IRC).

The dehumidifier has built-in controls to adjust the amount of fresh air that is brought in to the home. When properly installed and set, the model E100W will meet the mechanical ventilation requirements of:

- ASHRAE 62.2
- Energy Star for Homes
- EPA Indoor airPLUS
- International Residential Code (IRC)
- International Energy Conservation Code (IECC)
- California Energy Commission Title 24

Circulation

The E100W 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.

(1) Rated capacity, energy factor and current draw measured at 80ºF/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.
(3) Built-in automatic control capable to be set up for dehumidification and ventilation.
(4) Threaded barbed fitting included.

34.2
4.1
26.1
4.0
Ø 10
Ø 10

3/4" DIA. PIPE (INSIDE)

14.0
15.7
15.1

3/8-2
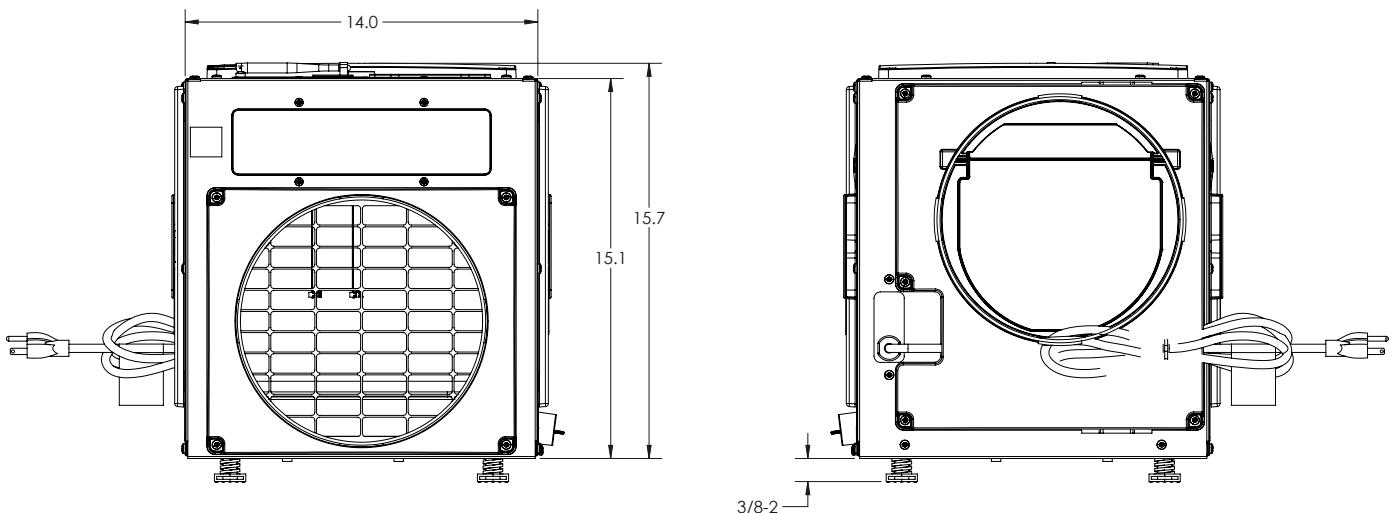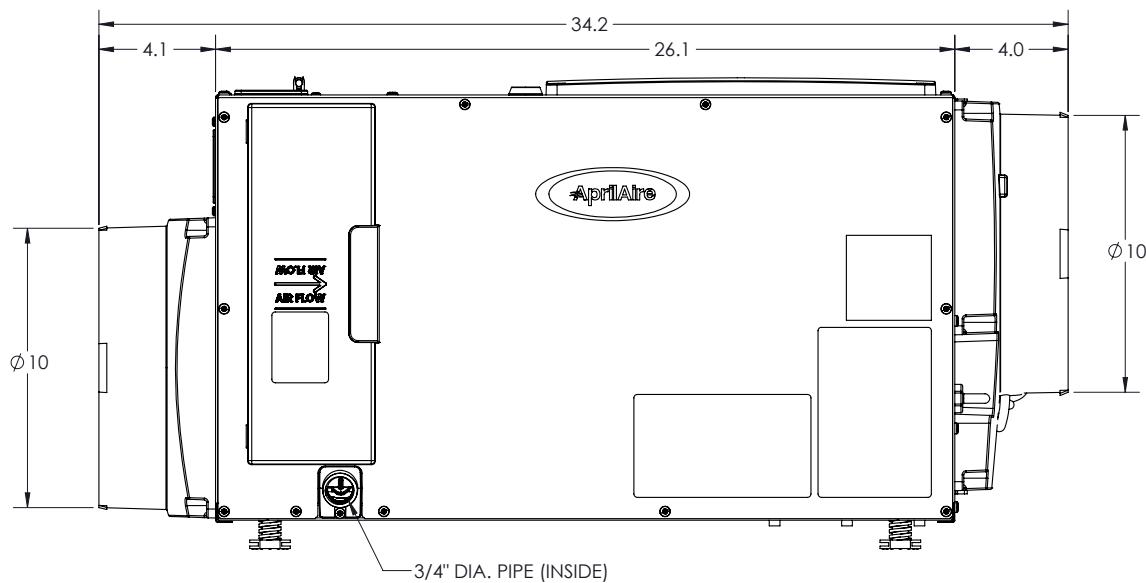
The submittal is intended to show general, overall product dimensions and provide guidance for installation clearance. Drawings are not to scale. Ensure submittals are current.

AprilAire reserves the right to make product changes without notification or obligation.