AprilAire®

Model
E100W
Wi-Fi Dehumidifier

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

Features

- Comes with leveling feet
- Wi-Fi enabled digital control with color graphical display. Can be set up for dehumidification with the option of ventilation
- 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
- R32 refrigerant
- Corrosion-resistant aluminum coils
- 8' power cord
- 10ºF-30ºF discharge air temperature rise
- ¾" MNPT Threaded drain connection with threaded barbed fitting included
- 5-year warranty

Specifications

Capacity	@ 80ºF/60% RH @ 73ºF/60% RH	100 ppd 85 ppd
Energy Factor kW-h	@ 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" w.c. 0.2" w.c. 0.4" w.c.	280 CFM 245 CFM 210 CFM
Voltage, phase, frequency	120 VAC, 1 phase, 60 Hz	
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.	
Inlet air operating conditions during	Dehumidification:	50ºF–104ºF, 40ºF dew point min.
	Ventilation:	40ºF–140ºF, 0%–99% RH (non-condensing)

Principle of Operation

The AprilAire Model E100W Wi-Fi Dehumidifier features Wi-Fi enabled technology which offers easy installation, setup, and pairing. Maintenance is made easy through reliable monitoring and enhanced product support. This allows for best-in-class user experience to solve moisture and high humidity.

The AprilAire E100W Wi-Fi 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 E100W Dehumidifiers are perfect for a wide range of applications including whole-home dehumidification and control of moisture in basements and crawl spaces.

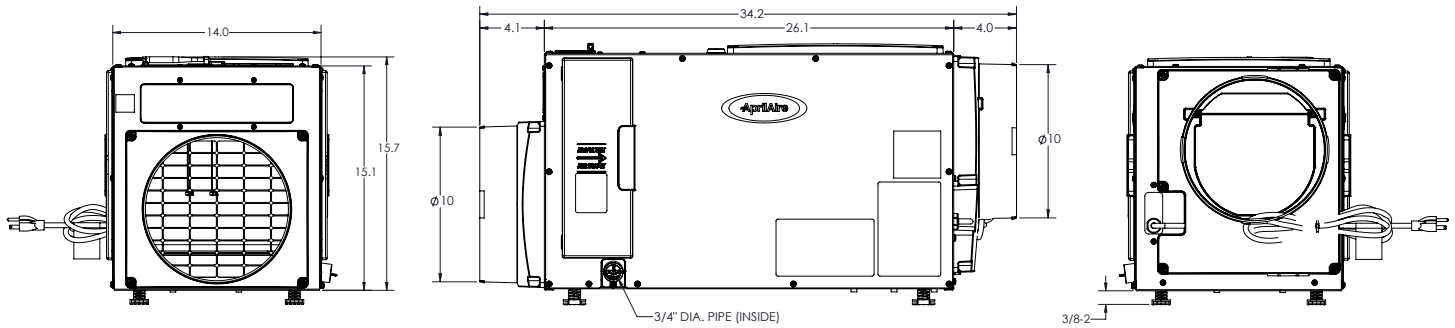The AprilAire Model E100W Wi-Fi Dehumidifier offers:
- Turn-Key Provisioning: Built-in control w/bluetooth
- Intuitive Controls: Enhanced, digital interface and app integration for ongoing monitoring and maintenance
- Integration with AprilAire Healthy Air App for alerts, diagnosis, and updates

Circulation

The Model E100W can also be programmed to circulate air, which evens out relative humidity levels and temperature in the treated 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.
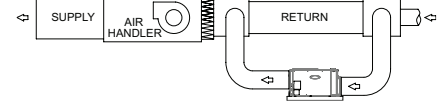[2]Height does not include adjustable feet. The width excludes the filter doors and length excludes the duct collars.

14.0 — 15.7 / 15.1

34.2 — 4.1 — 26.1 — 4.0 — ⌀10

⌀10

3/4" DIA. PIPE (INSIDE)

3/8-2

Installation Options for the AprilAire E100W Dehumidifiers
Shown in horizontal applications, can be installed in vertical applications as well.
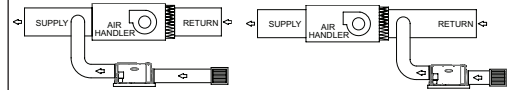
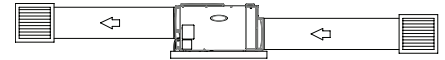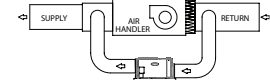|	
Main Return to Main Return - RECOMMENDED • This application can be used when a supply duct is not available. • Air is pulled from the return duct, dehumidified, and returned to the return duct. • Assures that the dehumidified air is mixed with rest of the air in the duct before it re-enters the house. • This application is for whole-home dehumidification.	SUPPLY — AIR HANDLER — RETURN
Dedicated Return to Main Supply or Dedicated Return to A/C Return • This application can be used when a return or supply duct is not available. • Air is pulled through a dedicated return grille, dehumidified, and returned to the supply plenum or return. • This application is for whole-home dehumidification.	SUPPLY — AIR HANDLER — RETURN SUPPLY — AIR HANDLER — RETURN
Inlet and Outlet Ducted to Dedicated Grilles • For homes without duct work. Use of the Model 5546 Living Space Duct Kit recommended. • Dries a specific area that has a moisture issue (basements, crawl spaces, sealed attics, etc.). • Dehumidifier can be located in a closet, mechanical room or unfinished area and ducted into a finished room.	
Main Return to Main Supply • Air is pulled from the return duct, dehumidified, and returned to the supply plenum. • This application is for whole-home dehumidification.	SUPPLY — AIR HANDLER — RETURN

Optional Accessories

Model 4856
Condensate Pump
• 22 ft. lift
• Low profile
• 120 V

Model 5958
Condensate Pump Bracket
• Intuitive rail system
• No additional screws
• Threaded drain elbow

Model 5822
Hanging Kit
• Simple pulley system installation
• Weight: 2.3 lbs.
• Supports 200 lbs.

Model 5546
Living Space Duct Kit
See dedicated grilles installation example to the left.