

# Specification Sheet



Model  
**E050W**  
Wi-Fi Dehumidifier



DESIGNED &  
ASSEMBLED  
IN THE USA  
UTILIZING U.S. AND  
GLOBAL COMPONENTS



## Specifications

<b>Capacity<sup>(1)</sup></b>	@ 80°F/60% RH @ 73°F/60% RH @ 65°F/60% RH	50 ppd 42 ppd 35 ppd
<b>Energy Factor kW-h<sup>(1)</sup></b>	@ 80°F/60% RH @ 73°F/60% RH @ 65°F/60% RH	2.0 L/kW-h 1.8 L/kW-h 1.7 L/kW-h
<b>Airflow @ varying E.S.P. (external static pressure - dry coil)</b>	0.0" w.c. 0.2" w.c. 0.4" w.c.	145 CFM 125 CFM 105 CFM
<b>Voltage, phase, frequency</b>	120 VAC, 1 phase, 60 Hz	
<b>Current Draw<sup>(1)</sup></b>	4.2 Amps	
<b>Noise</b>	54 dBA ducted 57 dBA un-ducted	
<b>Wi-Fi</b>	Yes	
<b>Refrigerant</b>	R32	
<b>Dimensions (cabinet only)<sup>(2)</sup></b>	Width: 12", Height: 10", Length: 25"	
<b>Unit Weight</b> <b>Shipping Weight</b>	46 lbs. 55 lbs.	
<b>Control Range</b>	42°F to 78°F Dew Point or 40% to 80% RH	
<b>Inlet air operating conditions during</b>	Dehumidification:	50°F-104°F, 40°F dew point min.
	Ventilation:	40°F-140°F, 0%-99% RH (non-condensing)

<sup>(1)</sup>Rated capacity, energy factor and current draw measured at 80°F/60% RH inlet air at 0.0 ESP  
<sup>(2)</sup>Height does not include adjustable feet. The width includes the User Interface.

## Features

- Low profile and lightweight for easy maneuverability in small spaces
- Wi-Fi enabled digital control with color graphical display. Can be set up for dehumidification with the option of ventilation.
- Side-mounted control
- Air discharge orientation at end of cabinet
- Washable MERV 8 tool-less filter (part number 70000038), accessible at end of unit
- Corrosion-resistant aluminum coils
- 8' power cord (plug type); hardwire option not available
- 10°F-30°F discharge air temperature rise
- ¾" MNPT Threaded drain connection with adapters for threaded connection for plastic hose included
- Remote access and control over Wi-Fi
- 10' drain tubing
- 5-year warranty
- OPTIONAL 8" diameter inlet/outlet duct collars (not included)

## Principle of Operation

The AprilAire Model E050W 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

The AprilAire Model E050W 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 E050W 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

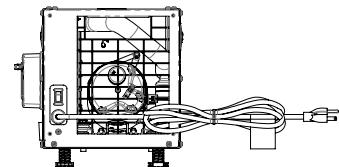
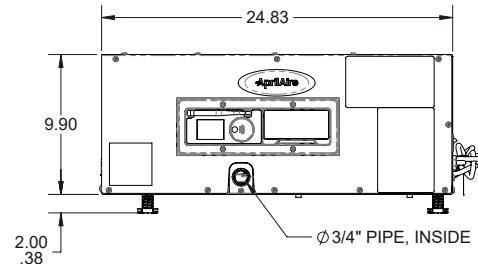
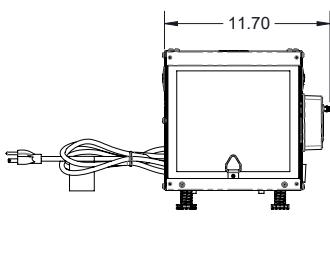
The E050W Wi-Fi Dehumidifier is the perfect solution for controlling humidity in crawl spaces; protecting against structural damage, pests and mold.

The AprilAire Model E050W 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 E050W 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.



## Optional Accessories



### Model 4856 Condensate Pump

- 22 ft. lift
- Low profile
- 120 V



### Model 5958 Condensate Pump Bracket

- Simple pulley system installation
- Weight: 2.3 lbs.
- Supports 200 lbs.



### Model 5822 Hanging Kit

- Simple pulley system installation
- Weight: 2.3 lbs.
- Supports 200 lbs.



### Model 5879 Risers

- Pack of 4



### Model 70000047 Duct Collar Kit

- Inlet duct kit: 70000041
- Outlet duct kit: 70000040



### ZAZW Water Sensor

- Detects water in hard-to-reach areas like basements and crawl spaces
- Protects the home from water damage with instant alerts from the Healthy Air App
- Horizontal and vertical mounting options
- 6-foot lead wires included for tight spaces