Dehumidifier

Model E130 | Specification Sheet

SPECIFICATIONS		
Model	**E130/E130H**	**E130C**
Capacity		
@ 80°F/60% RH	130 ppd	
@ 73°F/60% RH	105 ppd	
Energy Factor		
@ 80°F/60% RH	2.9 L/kW-h	
@ 73°F/60% RH	2.35 L/kW-h	
Airflow @ varying E.S.P. (external static pressure - dry coil)		
0.0″ w.c.	310 CFM	
0.2″ w.c.	270 CFM	
0.4″ w.c.	225 CFM	
Voltage, phase, frequency	120VAC, 1 phase, 60 Hz	
Current draw[1]	8.3 Amps	
Noise	50 dBA ducted	
Dimensions: (cabinet only)[2]	Width: 19½″ Height: 18¾″ Length: 30″	
Unit Weight **Shipping Weight**	98 lbs. 115 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)	

[1]Rated capacity, energy factor and current draw measured at 80°F/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.

FEATURES		
Model	**E130/E130H**	**E130C**
Casters or leveling feet	Leveling feet	Casters
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 5569)	
Refrigerant	R410A	
Coil type	Corrosion-resistant aluminum	
8′ Power cord[4]	E130 Plug Type/ E130H Hardwired	Plug Type
Discharge air temperature rise	10°F–30°F	
Drain connection[5]	¾″ MNPT Threaded	
Included drain tubing	None	10′ length
Warranty	5 Years	

[3]Built-in automatic control capable to be set up for dehumidification and ventilation or zoning.
[4]Model E130H is a hardwired unit and doesn't ship with a power cord.
[5]Threaded barbed fitting included.

MODELS:
E130: Includes 8 ft. power cord
E130C: Uses casters instead of leveling feet
E130H: Terminal connection for hardwiring

Aprilaire® E-series

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PRINCIPLE OF OPERATION

The Aprilaire E130 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 E130 Dehumidifiers are perfect for a wide range of applications including whole-home dehumidification and control of moisture in basements and crawl spaces.

CIRCULATION

The E130 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.

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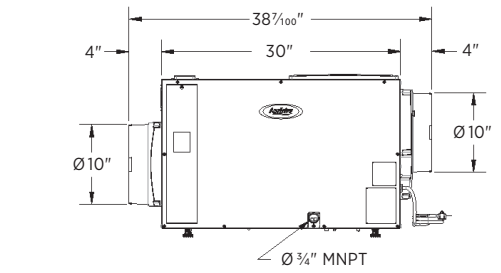
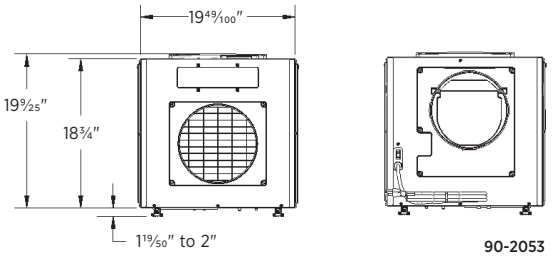
5 YEAR WARRANTY

MADE IN THE USA





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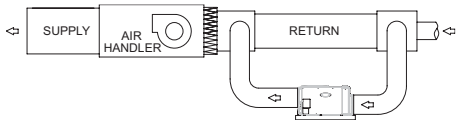
INSTALLATION OPTIONS FOR THE APRILAIRE E130 SERIES DEHUMIDIFIERS

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.

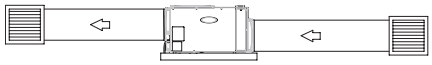


Dedicated Return to Main Supply or Dedicated Return to A/C Return

- 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.

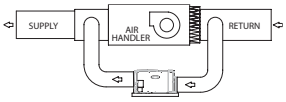
Inlet and Outlet ducted to dedicated grilles

- 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.

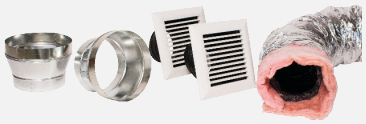


Optional Accessories

Model 5822
Hanging Kit

Weight: 3 lbs.

Supports up to 200 lbs.



Model 5546
Living Space Duct Kit

See dedicated grilles installation example above.

Optional Wall-Mount Controls

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 IAQ 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

- 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

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