

AprilAire®

Dehumidifier

FEATURES

- Built-in digital control with top or front mounting options
- 40' crawlspace alert cable with LED light
- ½" EPS cabinet insulation
- Top or end air discharge orientation
- Washable MERV 8 filter (part number 5881) and 10" diameter inlet/outlet duct collars
- R32 refrigerant
- Corrosion-resistant aluminum coils
- 8' power cord (plug type); field-configurable hardwire option is available
- 10°F–30°F discharge air temperature rise
- ¾" PVC adapters for drain connection with adapters for threaded connection or plastic hose included
- 10' drain tubing
- 5-year warranty

SPECIFICATIONS

Capacity	@ 80°F/60%RH @ 73°F/60% RH	80 ppd 65 ppd
Energy Factor kW-h	@ 80°F/60% RH @ 73°F/60% RH	2.8 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.	185 CFM 135 CFM 85 CFM
Voltage, phase, frequency	120 VAC, 1 phase, 60 Hz	
Current draw⁽¹⁾	4.8 Amps	
Noise	45 dBA ducted	
Dimensions (cabinet only)⁽²⁾	Width: 14", Height: 15", Length: 26"	
Unit Weight	63 lbs.	
Shipping Weight	81 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.

SPECIFICATION

Model E080CS

Crawl Space Dehumidifier



PRINCIPLE OF OPERATION

The AprilAire E080CS Crawl Space 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. 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.

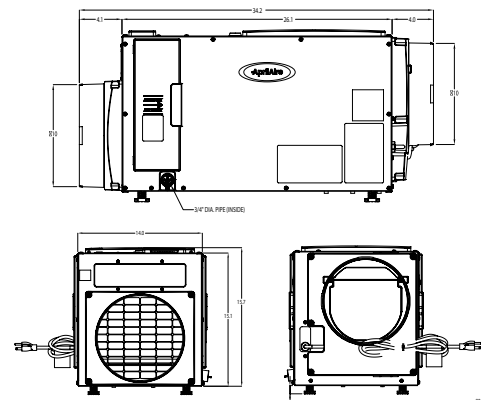
APPLICATION

The Model E80CS controls to a "Dew Point" set point which is ideal for unconditioned spaces. It removes up to 80 pints per day with a low current draw—keeping crawl spaces dry without unwanted increases to the utility bill.

This unit also includes a crawl space alert which is an LED installed in the living space that ensures homeowners their Model E80CS is functioning properly. The light turns on to notify homeowners that the unit is in need of service.

CIRCULATION

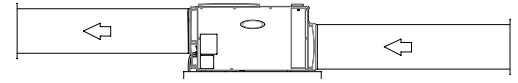
The Model E080CS can be programmed to circulate the air within a crawl space. This evens out relative humidity levels and temperature in the space, eliminating variations in the environment.



INSTALL APPLICATION

Inlet and Outlet Ducted

- Dehumidifier is ducted using 10" round flexible duct or hard duct.
- Air is pulled into the dehumidifier directly from the crawl space, dehumidified and returned back to the crawl space.
- Adding ductwork can help circulate the air around the crawl space.



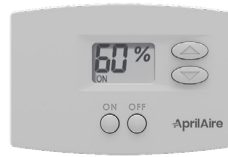
INCLUDED ACCESSORY



Model 5427 Crawl Space Alert

- 40' cable with LED
- LED illuminates when the dehumidification set point can't be reached or when service is required
- Provides customer peace of mind knowing the dehumidifier is functioning properly

OPTIONAL WALL-MOUNT CONTROL



Model 76 Dehumidifier Control

- On, Off buttons
- Wall-mounted living space control
- As an "External Control" it displays RH and controls to an RH value for basements
- As a "Remote Control" it displays RH and controls to dew point for crawl spaces

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 76 SPECIFICATIONS

Electrical	External	Remote
Input voltage and current	Voltage: 24 VAC +/-20% Current: 25mA (nominal), 50mA (max.) at 24 VAC	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