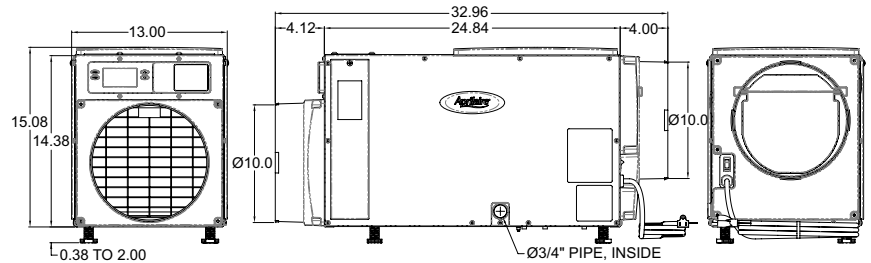


PRODUCT SPECIFICATIONS	
Capacity*	70 ppd
Energy Factor*	1.91 L/KW-h
Airflow @ Varying E.S.P. (external static pressure - dry coil)	
0.0" w.c.	160 CFM
0.2" w.c.	120 CFM
0.4" w.c.	70 CFM
Voltage, Phase, Frequency	120V, 1, 60 Hz
Current draw*	6.3 A
Noise	47 dBA ducted 51 dBA unducted
Dimensions (cabinet)	Width: 12.5" cabinet Height: 14.5" cabinet Length: 25" cabinet
Weight	67 lbs
Operating Conditions	
Inlet Air Operating Conditions	50°F - 104°F, 40°F dew point min.
Ambient/Ventilation	40°F - 140°F, 0% - 99% RH (non-condensing)

* Rated capacity and Energy Factor test done and current draw measured in accordance with AHAM DH-1 2008 at 80°F/60%RH inlet air at 160 CFM.

PRODUCT FEATURES	
Controls	Built-in digital control
Cabinet Insulation	1/2" EPS
Air Discharge Orientation	Top or end
Inlet/Outlet Duct Collars	10" dia.
Backdraft damper at Outlet	Included
Filter	1/2" washable, MERV 8
Refrigerant	R410A
Coil Corrosion resistance	E-Coated Coil
8' Power Cord Plug Type	NEMA 5-15P (⚡)
Hardwire Option	YES, field configurable
Discharge Air Temperature Rise	10°F-30°F
Drain Connection	3/4" PVC
Warranty	5 Years
Energy Star Qualified	YES



PRINCIPLE OF OPERATION

The Aprilaire Model 1830 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 Aprilaire Model 1830 is the perfect product for smaller homes, townhomes, condominiums and crawlspaces.

VENTILATION

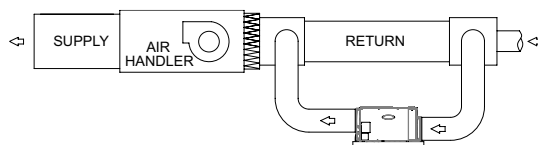
The Model 1830 has the ability to bring in fresh air. Fresh air will dilute stale air and pollutants and will reduce humidity in the winter months. The fresh air is brought in through a 6" round duct and 6" round normally closed damper. The dehumidifier has built in controls to adjust the amount of fresh air that is brought in.

Installation options for the Aprilaire 1830 Dehumidifier

APPLICATIONS

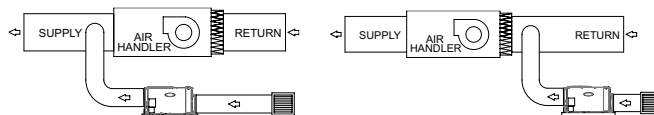
Main Return to Main Return - RECOMMENDED

- 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 used in basements, attics, crawl spaces, etc.



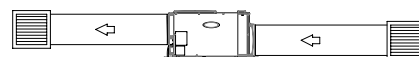
Dedicated Return to Main Supply or Dedicated Return to A/C Return

- 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



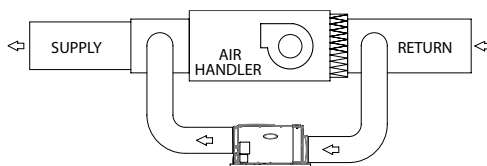
Dedicated A/C Return to A/C Return

- For homes without duct work
- Dries a specific area that has a moisture issue
- 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 used in basements, attics, equipment closets, etc.



Unducted - freestanding

- Model 1830 unducted
- Air is pulled into the dehumidifier directly from the space, dehumidified, and return back to the space
- This application is used in basements, crawlspaces, etc.
- HVAC closet vertical discharge



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 crawlspace applications and sealed attics

SPECIFICATIONS

ELECTRICAL	External	Remote
Input Voltage and Current	Voltage: 24VAC +/-20% Current: 25mA (nominal), 50mA (max.) at 24VAC	Voltage: 9VDC (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
High Limit	99°F Dry Bulb	105°F Dry Bulb



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