

SPECIFICATIONS

Capacity	300 ppd	
Energy Factor	2.5 L/kW-h	
Airflow @ 0.6" w.c. (external static pressure - dry coil)	500 CFM	
Electrical Data		
Voltage, Phase, Frequency	277VAC, 1 phase, 60 Hz	
Operating Amps ⁽¹⁾	9.5 Amps	
Power (Watts) ⁽¹⁾	2270	
Min. Circuit Ampacity ⁽²⁾	15A	
Max. Overcurrent Protection ⁽³⁾	25A	
Dimensions: (cabinet only)	Width	28½"
	Height	19"
	Length	23"
Weight	145 lbs	
Ventilation	Input available	

⁽¹⁾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 0.0 ESP. ⁽²⁾Use when selecting wire size and type. ⁽³⁾Use when sizing the breaker or fuse.

FEATURES

Control	Model 76 included
Air Supply Orientation	In-line, top, bottom, side, any combination
Supply Dimensions	6" x 15" (Qty 4)
Inlet Dimensions	14" x 14"
Filter	MERV 11 disposable
Refrigerant	R410A
Coil Type	E-coated
Hardwire	Yes
Drain Connection*	¾" NPT female bottom connection
Leveling Feet	Included
Hanging Brackets for Threaded Rod	Included
Warranty	5 Years

* Requires drain trap



▶ **PRINCIPLE OF OPERATION**

The Aprilaire Model 1873V3 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.

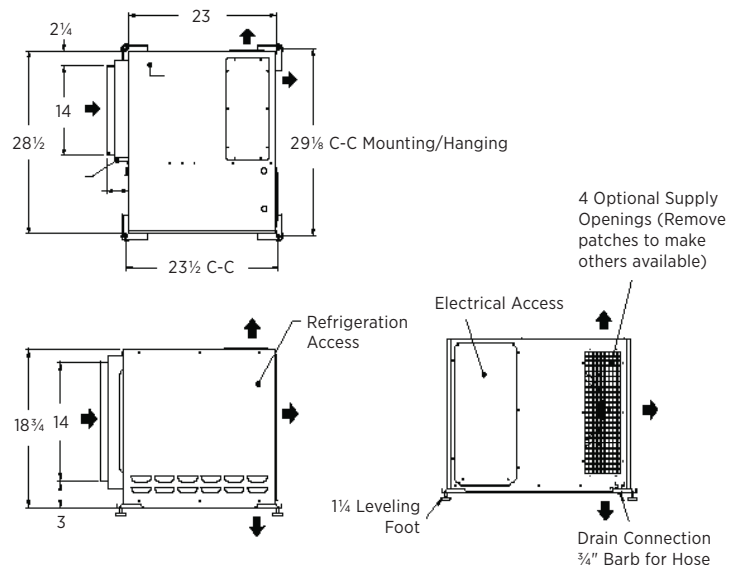
Dehumidification occurs until the set point is reached, then shuts off until the control determines a need for operation.

▶ **APPLICATION**

The Aprilaire Model 1873V3 Dehumidifier is the perfect solution for the precise management of humidity required in an indoor growing environment.

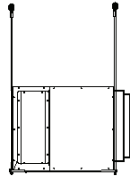
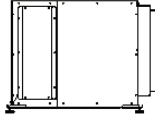
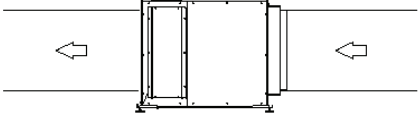
▶ **CIRCULATION**

The Model 1873V3 can also be programmed to circulate air within a grow facility. Proper air flow carries moisture away from the plants, helping to prevent fungus, disease and plant pests from damaging the crop. Circulating the air also maximizes the application of CO₂ in the grow facility.



Installation Options For the Aprilaire 1873V3 Dehumidifiers

APPLICATIONS

<p>Suspended</p> <ul style="list-style-type: none"> • Air is pulled into the dehumidifier directly from the space, dehumidified and returned to the space. • The dehumidifier is hung from the ceiling to save space in the facility. 	
<p>Freestanding</p> <ul style="list-style-type: none"> • Air is pulled into the dehumidifier directly from the space, dehumidified and returned to the space. 	
<p>Inlet and Outlet ducted</p> <ul style="list-style-type: none"> • Ducted to circulate air to equalize humidity, temperature and move CO₂ • Dehumidifier located in adjacent room and ducted to space requiring dehumidification. • Great for drying room applications where space may be limited. 	

Optional Controls



Model 8840
Easy-to-use color touch screen with all control options on the home screen.



Model 8830
Easy-to-use touch screen with all control options on the home screen.



Model 8820
Easy-to-use touch screen designed for temperature and humidity control.



Model 8082 Sensor
Monitor temperature and humidity in multiple locations. Readings averaged to balance temperature and humidity.



Included Control



Model 76
Dedicated monitoring and control of each dehumidifier at canopy height.

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