

SPECIFICATIONS

Model	A100 (ducted)	A100F (movable, with casters)
Capacity ⁽¹⁾ (water removal)	100 ppd	
Energy factor ⁽¹⁾ (efficiency)	2.6 L/kWh (5.5 pints/kWh)	
Voltage, Phase, Frequency	120VAC, 1 Phase, 60 Hz	
Current draw ⁽¹⁾	6.9 Amps	
Power (Watts) ⁽¹⁾	750 Watts	
Btu/h ⁽²⁾	3,040	
CFM	280	
Noise	55 dBA	59 dBA
Dimensions: (cabinet only)	Width: 14"	14" cabinet
	Height: 15"	15" cabinet 18" with casters
	Length: 26"	26" cabinet
Weight	64 lbs.	
Shipping Weight	82 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 and energy factor test done and current draw measured at 80°F/60% RH inlet air at 0.0 ESP.

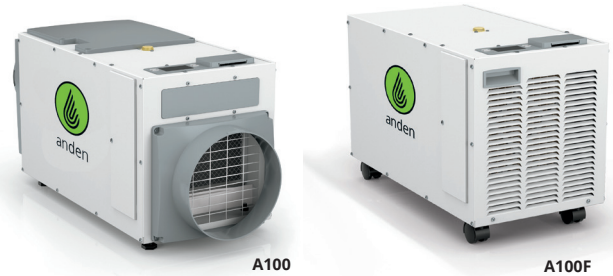
⁽²⁾Total cooling load @ 80°F/60% RH.

FEATURES

Model	A100 (ducted)	A100F (movable, with casters)
Control	Built-in digital control with display	
Control mounting option	Field-interchangeable from top to front	Top only
Cabinet insulation	½" EPS	
Air discharge orientation	Top or end	End
Inlet/Outlet duct collars	10" dia.	N/A
Backdraft damper at outlet	Included	N/A
Filter	11 ²² / ₂₅ " x 13 ¹ / ₂ " x 1", MERV 11 (Part number 5895)	
Refrigerant	R410A	
Coil type	Corrosion-resistant aluminum	
8' Power cord	Plug type	
Discharge air temperature rise	10°F–30°F	
Drain connection	¾" MNPT Threaded	
Warranty	5 Years	

INCLUDED ITEMS

Drain fitting	¾" MPT x ¾" barbed
10 ft. Drain tubing	¾" ID
Duct collars	10" Round (A100 only)
Manual	Installation instruction



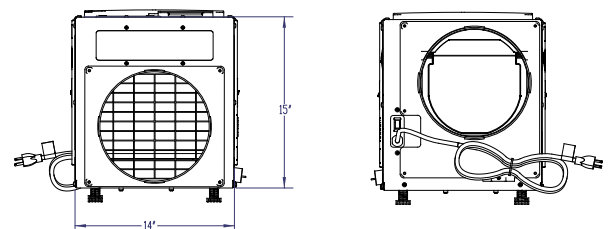
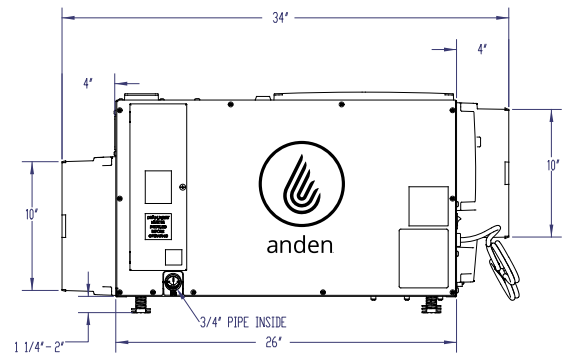
PRINCIPLE OF OPERATION

The Anden Model A100 Series Medium-Capacity Commercial-Grade 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 Anden Model A100 Series is the perfect solution for the precise management of humidity required in an indoor growing environment.

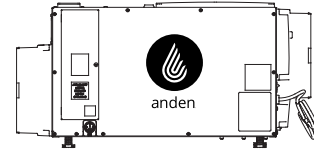


Installation Options for the Anden A100 Dehumidifier Series

APPLICATIONS

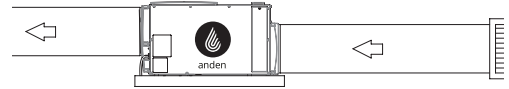
Movable

- Air is pulled into the dehumidifier directly from the space, dehumidified and returned to the space.



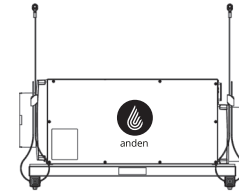
Inlet and outlet ducted (Model A100 only)

- Ducted with 10" flex duct or hard pipe.
- Circulates air to equalize humidity, temperature and move CO₂.



Suspended

- Air is pulled into the dehumidifier directly from the space, dehumidified and returned to the space.
- The dehumidifier is mounted from the ceiling using our hanging kit (Model 5660) to save space in the facility.



Optional Controls



Model A77
Dedicated monitoring and control of each dehumidifier at canopy height.

MODEL A77 SPECIFICATIONS

Electrical

Input voltage and current

Voltage: 35VDC (supplied by dehumidifier control board)

Output

Communication (RS485)

Control

Control range

35%-80% RH

Accuracy

+/-5% RH

Differential

3% RH

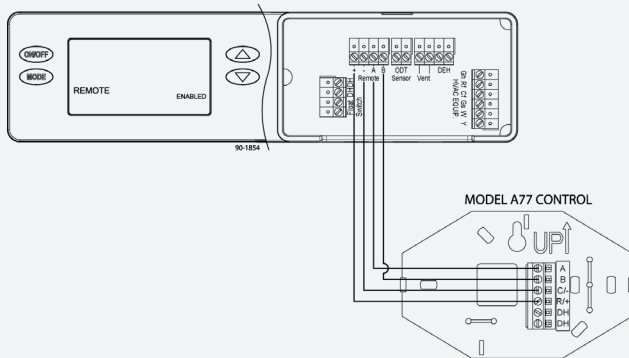
Low limit

40°F dew point

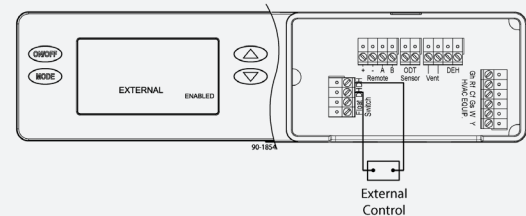
High limit

99°F dry bulb

Model A77 Control (Optional)



External Control w/ Dry Contacts



The Model A100 can be controlled with the Model A77 Control (optional) or any external control that can provide a dry contact closure. When the Model A77 is used, the User Interface on the dehumidifier **MUST BE** set to "Remote". For all other external controls, the User Interface **MUST BE** set to "External". Refer to the quick start guide or installation manual for instructions on accessing the installer set-up menu.