

SPECIFICATIONS

Capacity ⁽¹⁾ PPD AT 80°/60%RH	315
Energy factor ⁽¹⁾	2.6 L/kWh 5.5 pints/kWh
Voltage, Phase, Frequency	277VAC, 1 Phase, 60 Hz
Current draw (amps) ⁽¹⁾	9.2
Power (watts) ⁽¹⁾	2,450
BTU/h ⁽²⁾	7,900
	SJT, L7-20P, 10ft

Power cord type and length



Hardwire	Field-configurable
Breaker size	20 amp
CFM	830
Dimensions:	Width: 32 $\frac{5}{8}$ " Height: 24" Length: 24 $\frac{1}{4}$ "
Weight	180 lbs.
Operating range Temp/RH	60/50 to 85/80

⁽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, 277VAC.

⁽²⁾Total cooling load @ 80°F/60% RH.

FEATURES

Control	Onboard digital with diagnostics
Air supply orientation	Horizontal
Filter	20"x22"x2" MERV 11
Refrigerant	R410A
Coil type	Copper tube, Aluminum fin with ElectroFin® E-coat
Drain connection*	¾" FNPT
P-Trap required	Yes (Included)
Leveling feet	Sold separately (Model #5789)
Hanging brackets	Included
Warranty	5 Years on all parts including refrigeration system

*Requires drain trap

INCLUDED ITEMS

Control	Model S77
Drain fittings	¾" MNPT x ¾" BARB, ¾" MNPT x ¾" Female pipe, ¾" FNPT x ¾" Female pipe, ¾" P-Trap
Drain tubing (length, ID)	10' - ¾" ID
Thermostat wire	30' 20 gauge 4-wire



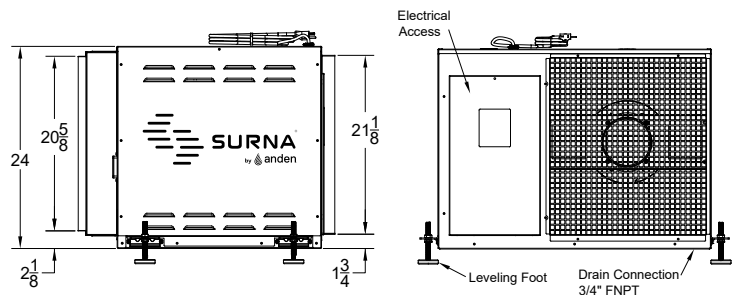
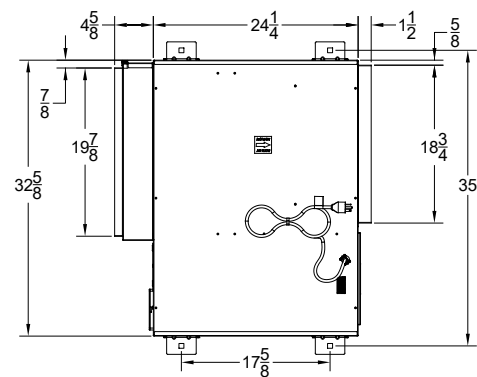
PRINCIPLE OF OPERATION

The Surna by Anden Model S320V3 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.


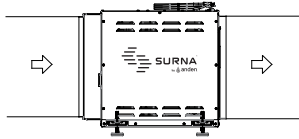
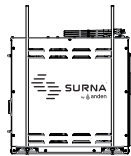
APPLICATION

The Surna by Anden Model S320V3 Dehumidifier is the perfect solution for the precise management of humidity required in an indoor growing environment.



Installation Options for the Surna by Anden S320V3 Dehumidifier

APPLICATIONS

Freestanding <ul style="list-style-type: none"> Air is pulled into the dehumidifier directly from the space, dehumidified and returned to the space. 	
Ducted <ul style="list-style-type: none"> Remotely located and ducted into grow space. Circulates air to equalize humidity, temperature and CO₂. Duct mounting kit part #5807 (sold separately). 	
Suspended <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. 	

Optional Controls and Sensors

Wi-Fi Thermostats



Wi-Fi thermostats and mobile app provide humidity and temperature alerts directly to your smart phone or tablet. Control and monitor climate conditions in your grow room 24/7/365 from anywhere.



Wi-Fi Model 8840

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



Wi-Fi Model 8830

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



Wi-Fi Model 8820

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

Sensor



Model 8082 Sensor

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



Model 8083 Sensor

Flush temperature and RH module. Averages four temperature and four RH values.

Included Controls



Model S77

Dedicated monitoring and control of each dehumidifier at canopy height.

MODEL S77 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

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SURNA RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.

