

Humidity Control Systems

DEHUMIDIFICATION | HUMIDIFICATION | VENTILATION | WI-FI CONTROL



Maximize plant growth and profit potential with precise humidity control

Humidity control for the professional cultivator

Anden has been an innovator in the development of precise humidity control systems for commercial and residential applications since 1954. Trust us to deliver the reliable products and expert technical support that are critical to successful harvests.



Built on a foundation of comprehensive testing programs performed by Anden engineers.

- Research and development
- Lab testing capabilities
 - HALT, HASS, Environment testing
 - IEC 61000-4-2, IEC 61000-4-4
 - ASHRAE 52.2 Air filter test duct
- Technology partnerships, certifications, testing coordination with UW-Madison



Creating and maintaining the right environment

Proper control of humidity and temperature throughout the growing and curing stages is essential to high-quality, high-yield harvests. Anden dehumidifiers ensure proper humidity levels are constantly maintained. This precise control, especially at the canopy level, prevents dangerous spikes in humidity and reduces the amount of chemicals needed to control mold and mildew growth. The design of Anden thermostats and sensors draw upon years of engineering premium products for the HVAC industry. Critical control is achievable for your facilities.

A COMPLETE PRODUCT ASSORTMENT FOR ALL GROW APPLICATIONS

	ТҮРЕ	MODELS	FEATURES
	Industrial Dehumidifers	A70, A95, A130	 High-capacity, low energy Digital user interface Crop-level external control option 5-year warranty
	Industrial Grow-Optimized Dehumidifiers	A200V1, A300V1, A300V3	 High-capacity, low energy Designed for "lights off" humidity spike Robust design, industry leading components Crop-level external control option 5-year warranty
@ anden	Steam Humidifier	AS35FP	 Maintain precise, constant RH High-capacity Easy installation Safe operation Easy to maintain
	Controls	8840, 8830, 8820, 8082, A76, 5558	Wi-Fi thermostats with humidity control provide mobile monitoring of the conditions in your facility at all times. Monitor and adjust temperature and humidity set points from anywhere using a connected smart device.

Industrial dehumidifiers

Anden A-Series Dehumidifiers' capacities range from 70–130 pints per day of moisture removal. From the serious hobbyist to medium-sized commercial facilities, Anden industrial dehumidifiers are designed to operate effectively in the extreme conditions of any indoor cultivation environment.

Digital Control

Included with every unit



Accurate, digital sensor with convenient top or side mounting options.

External Digital Control Optional



Position at crop height for critical monitoring and accuracy of RH control where it's needed most.



MODEL A70

Water removal @ 80°F/60% RH	70 pints/day	
Efficiency @ 80°F/60% RH	4.4 pints/kWh	
Airflow	200 CFM	
Power (Watts @ 80°F/60% RH)	630	
Supply voltage	120VAC, 1 Phase, 60Hz	
Dimensions: (cabinet only)	12½" W x 12½" H x 25" L	
Weight	56 lbs.	
Air filter	Washable MERV 8	
Power cord	8' 120VAC grounded plug	
Warranty		
Hanging kit	Model 5660 18" W x 6 ¹⁵ /16" x 29%" Weight: 13 lbs. Working Load: 400 lbs.	



MODEL A95

95 pints/day

4.7 pints/kWh

265 CFM

870

120VAC, 1 Phase, 60Hz

12½" W x 14½" H x 27½" L

70 lbs.

Washable MERV 8

8' 120VAC grounded plug

BUMPER to BUMPER

Model 5660 18" W x 6¹⁵/16" x 29%" Weight: 13 lbs. | Working Load: 400 lbs.

MODEL A130

130 pints/day

6.1 pints/kWh

310 CFM

900

120VAC, 1 Phase, 60Hz

19½" W x 18¾" H x 30" L

113 lbs.

Washable MERV 8

8' 120VAC grounded plug



Model A130 27" W x 10½" x 35" Weight: 18 lbs. | Working Load: 400 lbs.

Industrial grow-optimized dehumidifiers

Anden AV-Series Dehumidifiers range from 210-310 pints per day of moisture removal. Components utilize materials designed for the most extreme conditions and demanding enterprises. Sensors and controls can be custom-configured for each facility. Anden AV-Series are recommended for the large, ultrahigh volume industrial facilities.

FACT

Humidity spikes when lights are turned off.

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Dehumidifiers must achieve full capacity quickly and hold capacity while temperatures drop until lights are turned on.

Anden dehumidifiers utilize refrigeration technology designed for grow conditions.



MODEL A200V1

Water removal @ 80°F/60% RH	210 pints/day	
Efficiency @ 80°F/60% RH	6.0 pints/kWh	
Airflow	400 CFM	
Power (Watts @ 80°F/60% RH)	1400	
Supply voltage	208/240VAC, 1 Phase, 60Hz	
Dimensions: (cabinet only)	28½" W x 18¾" H x 23" L	
Weight	140 lbs.	
Air filter	MERV 11 disposable	
Power cord	10' 240VAC grounded plug	
Warranty	UMPER to BUMPER 5-YEAR WARRANTY	
Hanging kit	Models A200 and A300 hanging brackets are built in	



MODEL A300V1

300 pints/day

4.6 pints/kWh

400 CFM

3100

208/240VAC, 1 Phase, 60Hz

28½" W x 18¾" H x 23" L

140 lbs.

MERV 11 disposable

Hardwired

BUMPER to BUMPER 5-YEAR WARRANTY ***

Models A200 and A300 hanging brackets are built in

MODEL A300V3

300 pints/day

Coming Soon

Coming Soon

Coming Soon

Coming Soon

28½" W x 18¾" H x 23" L

Coming Soon

MERV 11 disposable

Hardwired

BUMPER to BUMPER 5-YEAR WARRANTY ***

Models A200 and A300 hanging brackets are built in

Industrial Grow-Optimized Dehumidifier

Anden dehumidifiers are designed with industry leading components from Modine[®], ElectroFin[®], Ziehl-Abegg[®], Copeland[®] and Sporlan[®].

Design Feature	Anden AV Series	Standard	
Compressor Start Up	Crank case heater	None	
Capacity Regulator	Thermal Expansion Valve (TXV)	No TXV; uses cap tube	
Compressor Type	Scroll	Rotary	
Corrosion Resistance Coil	Industry leader Modine® coil with ElectroFin® coating	Standard coating	
Air Flow ECM—variable speed blower		Direct drive single speed blower	
Control	Digital RH Sensor ±1.5% accuracy external controls with Wi-Fi and temperature averaging	Nylon RH Sensor ±5% accuracy external controls	
Warranty 5-Year "Bumper to Bumper"		1-Year parts and labor 5-Years refrigeration system	

TXV Valve

Maintains capacity by automatically regulating flow of refrigerant as temperatures change such as during lights on and off cycles.

Modine[®] Coil with ElectroFin[®] E-Coating

- Robust design optimizes humidity control
- Maximizes heat transfer for optimum performance
- Protects against corrosion

Scroll Compressor

The industry standard for quiet, reliable performance.

A WARNING 10A USE ONLY 1 MHHHHH

ECM blower

Reliable air flow across the coil ensures continued high ppd removal efficiency

Crank Case Heater

Optimizes start-up similar to an engine block heater, so when lights turn off and humidity spikes, the dehumidifier immediately reaches full capacity.

Steam humidifiers

Humidity control when preparing the crop

Drying and curing plants may require the addition of humidity to the drying room at some times of day and the removal of moisture at others.

Anden systems can automatically switch between humidification and dehumidification to ensure proper levels. Operational deadband prevents equipment from engaging simultaneously when optimal RH is reached.

Modulating control of humidity

Anden steam humidifiers with modulating control maintain extremely precise and constant RH levels required in the growing and curing environment.





101/8" W x 207/8" H x 71/8" D

Steam Capacity		Current Draw	
Pints/Day	Voltage	Amps	kW
92	1201/	11.5	1.4
128	120V	16.0	1.9
164	2221	11.5	2.4
240	208V	16.0	3.3
186.4	240V	11.5	2.8
276.8	240V	16.0	3.8

MODEL AS35FP INCLUDES:





Digital Humidistat 2¹⁷/₂₀" W x 4¹⁷/₂₀" H x 1" D

High capacity - One unit provides between 92 and 277 pints per day (11.5 and 34.6 gallons per day).

Independent operation - Works with or without the use of an HVAC system's duct work.

Water requirements - Uses standard potable water or softened water. Reverse Osmosis "RO" or deionized water is not recommended.

Easy to install - The fan pack can be surface mounted or recessed into a wall and connects directly to the steam humidifier. **Automatic drain and fill cycle** - Unit flushes and fills periodically to maintain the proper conductivity.

Safe operation - Drain water tempering uses cold inlet water to reduce the drain water temperature to protect PVC piping and condensation pumps.

Easy to maintain - No cleaning or scrubbing, simply remove the steam canister and replace.

Precise control and remote monitoring

Anden systems provide precise and continuous control of indoor environmental conditions crucial to growth cycles. Smart Wi-Fi alerts provide effective and convenient monitoring of conditions anywhere, anytime.

Wi-Fi control and monitoring Wi-Fi thermostats with humidity control provide mobile monitoring of the conditions in your facility at all times. Monitor and adjust temperature and humidity set points from anywhere using a connected smart device.



Model 8840 Shown



Location of air sampling — remote sensing

Temperature and humidity can vary greatly between the upper and lower levels of a grow facility. With remote sensors for the temperature and humidity, Anden controls sample the air at plant level, and at multiple points, providing more accurate monitoring and control.

MULTI-SENSOR AVERAGING Effective humidity control for maximum yield



ANDEN CONTROLS DELIVER ACCURACY WITHIN 1.5%



Model 8082 Sensor

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



Model A76

Dedicated monitoring and control of each dehumidifier at canopy height.



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