



Controls by Aprilaire



Model 8840 Shown

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.

Location of air sampling — remote sensing

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

Wi-Fi control and monitoring

Wi-Fi thermostats with humidity control provide mobile monitoring of the conditions in your facility at all times using a connected smart device.



8840
Universal 3H/3C or 4H/2C HP
Humidity and Ventilation
2 Part — 3-wire design
Full color touch screen



8830
Universal 3H/3C or 4H/2C HP
Humidity and Ventilation
2 Part — 3-wire design
Touch screen



8820
Universal 2H/2C or 4H/2C HP
Humidity and Ventilation
2 Part — 3-wire design
Touch screen

Control Features

Easy to Install & Maintain	Engineered for Excellence	Easy & Convenient to Use
<ul style="list-style-type: none"> + Programmable (or non-programmable) + Remote indoor sensor option Model 8820/8830 + Configurable manual heat/cool or auto changeover modes + Temperature offset $\pm 4^\circ$ Model 8820 	<ul style="list-style-type: none"> + Programmable fan + Permanent memory — programming, time and date isn't lost during a power outage + 5-year warranty 	<ul style="list-style-type: none"> + 4.5" diagonal touch screen Model 8820/8830 + 7" diagonal touch screen Model 8840 + Large font size + Fully back lit w/ constant low intensity light option + Full or limited screen lockout

Temperature Control

- + Universal Programmable Thermostat
- + 7 day (4 events/day) or non-programmable
- + Screen lock-out to prevent unauthorized adjustments

Electrical Specifications

- + 24VAC powered (18-30VAC)
- + 1 amp maximum load per terminal
- + 2.5 amp total maximum load (all terminals)

Humidity Control

HUMIDIFIER

- + Displays indoor RH on user interface
- + Notifies when humidifier is active
- + Automatic humidity setpoint adjustment (must use ODT) or manual control
- + Water Panel® replacement reminder
- + Use with (optional) model 8082 Remote Temperature/RH Sensor for remote RH sensing or sensor averaging



DEHUMIDIFIER

- + Displays indoor RH on user interface
- + Notifies when dehumidifier is active
- + Operates dehumidifier
- + Dehumidifier service reminder
- + Energizes HVAC blower when dehumidifying



Sensors



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.

Thermostat Specifications



Model	DIMENSIONS			THERMAL SPECIFICATIONS		
	Thermostat	User interface	Equipment control module	Control range	Display range	Accuracy
 8820	6" x 4.88" x 1.50"	6.05" x 4.85" x 1.25"	—	40° to 99°F (4° to 32°C)	32° to 99°F (0° to 40°C)	$\pm 1^\circ\text{F}$ ($\pm .5^\circ\text{C}$)
 8830	6" x 4.88" x 1.5"	6" x 4.85" x 1.25"	8.6" x 9.6" x 1.9"	40° to 99°F (4° to 32°C)	32° to 99°F (0° to 40°C)	$\pm 1^\circ\text{F}$ ($\pm .5^\circ\text{C}$)
 8840	7.13" x 4.38" x 1.13"	7.1" x 4.4" x 1"	8.6" x 9.6" x 1.9"	40° to 99°F (4° to 32°C)	32° to 99°F (0° to 40°C)	$\pm 1^\circ\text{F}$ ($\pm .5^\circ\text{C}$)