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AC Infinity AC-SFT3

AC Infinity THERMOFORGE T3

Environmental Grow Tent Heater User Manual

Model: AC-SFT3 | Brand: AC Infinity

Introduction

The AC Infinity THERMOFORGE T3 is an advanced environmental grow tent heater designed to provide precise temperature and Vapor Pressure Deficit (VPD) control for optimal plant growth. Featuring cutting-edge PTC plate technology and smart controls, this unit offers 10 distinct heat levels and integrates seamlessly with AC Infinity's UIS platform for comprehensive environmental management.

Figure 1: AC Infinity THERMOFORGE T3 Environmental Grow Tent Heater.

Safety Information

WARNING: RISK OF HEAT STROKE (HYPERTHERMIA)

- Hyperthermia can result in death in infants or others.
- Use caution to avoid overheating individuals.
- Read and follow all instructions before use.
- REMOVE BEFORE USE: Ensure all warning labels are removed from the unit before operation.

CAUTION:

- DO NOT PLACE AGAINST DRAPES OR FURNITURE.
- Features an automatic safety system that shuts the heater down if it falls, tilts past 15°, or overheats.

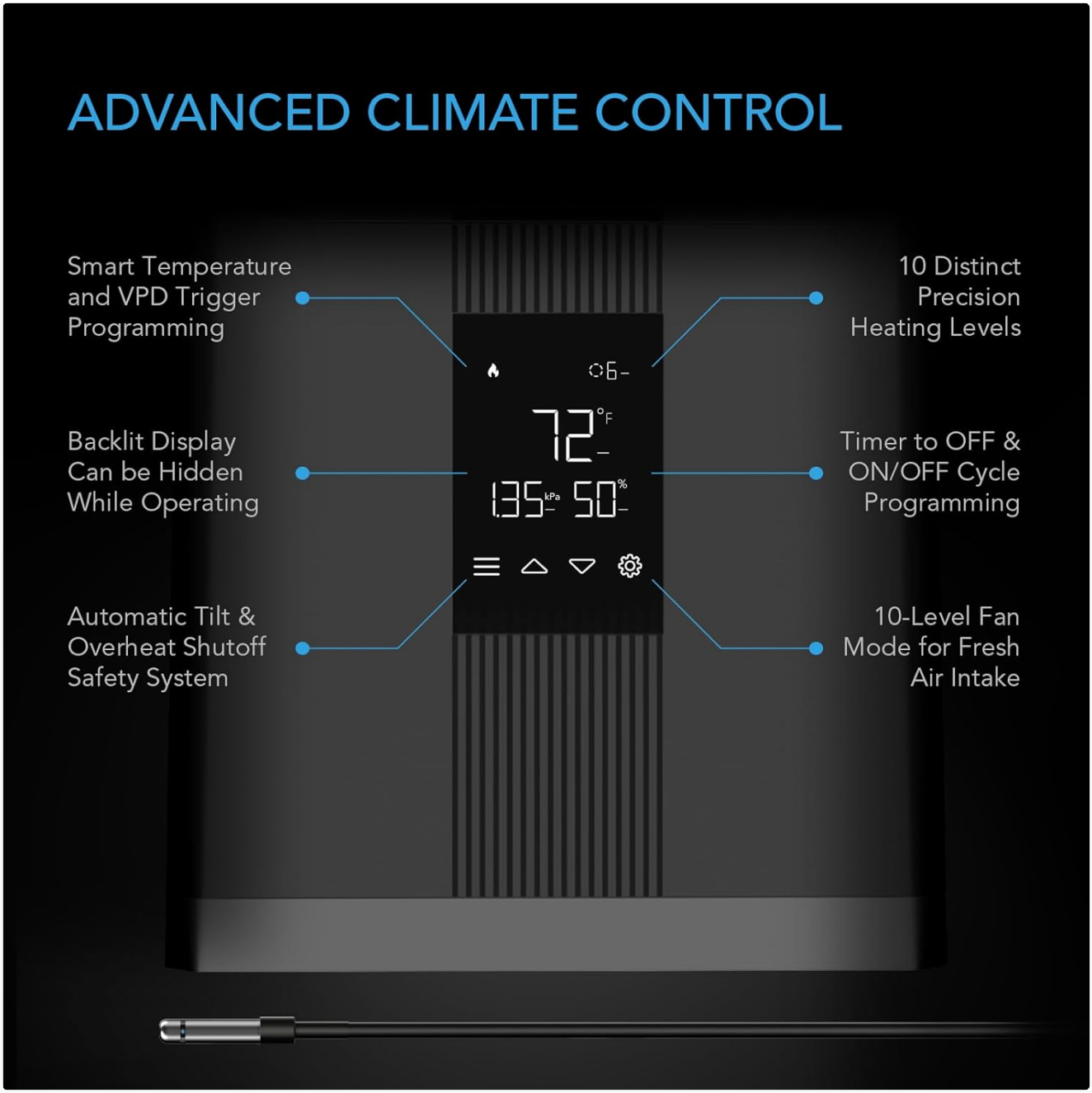

Figure 2: Control panel and safety warnings on the THERMOFORGE T3 heater.

Package Contents

- AC Infinity THERMOFORGE T3 Heater Unit
- Corded Sensor Probe
- Extension Hose (4 ft. attachment)
- Power Cord

Setup and Installation

1. **Placement:** Position the THERMOFORGE T3 unit outside your grow tent or room. Ensure it is on a stable, flat surface and not obstructed by drapes or furniture.
2. **Hose Connection:** Connect the flexible extension hose to the heater's output port. The hose is designed to direct heat into your grow space.
3. **Hose Routing:** Route the extension hose into your grow tent through an available duct port. For best results, place the hose opening near the floor of the tent, as heat rises.

4. **Sensor Probe:** Insert the corded sensor probe into your grow space. Ensure the probe is positioned to accurately measure the ambient temperature and humidity within the tent, away from direct airflow from the heater.
5. **Power Connection:** Plug the power cord into a standard 120V AC outlet. It is recommended to plug the unit directly into a wall socket rather than a power strip.

Figure 3: Targeted heating setup with the THERMOFORGE T3 and its extension hose.

Figure 4: The THERMOFORGE T3 providing environmental heating for a grow tent.

Operating Instructions

The THERMOFORGE T3 features an onboard controller for precise climate management. The backlit display shows current temperature, humidity, and VPD readings.

Figure 5: Detailed view of the THERMOFORGE T3's digital display and controls.

Basic Controls:

- **Power Button:** Turns the unit ON/OFF.
- **Menu Button (≡):** Accesses settings and programming options.
- **Up/Down Arrows (△▽):** Navigate menus and adjust values.
- **Settings Button (⚙):** Confirms selections and enters specific settings.

Temperature and VPD Control:

The unit allows you to set target temperature and VPD triggers. The PTC plate technology offers 10 distinct heat levels for precise temperature tailoring.

- Use the menu to navigate to temperature or VPD settings.
- Adjust the desired target values using the up/down arrows.
- The heater will automatically activate or adjust its output to maintain the set parameters.

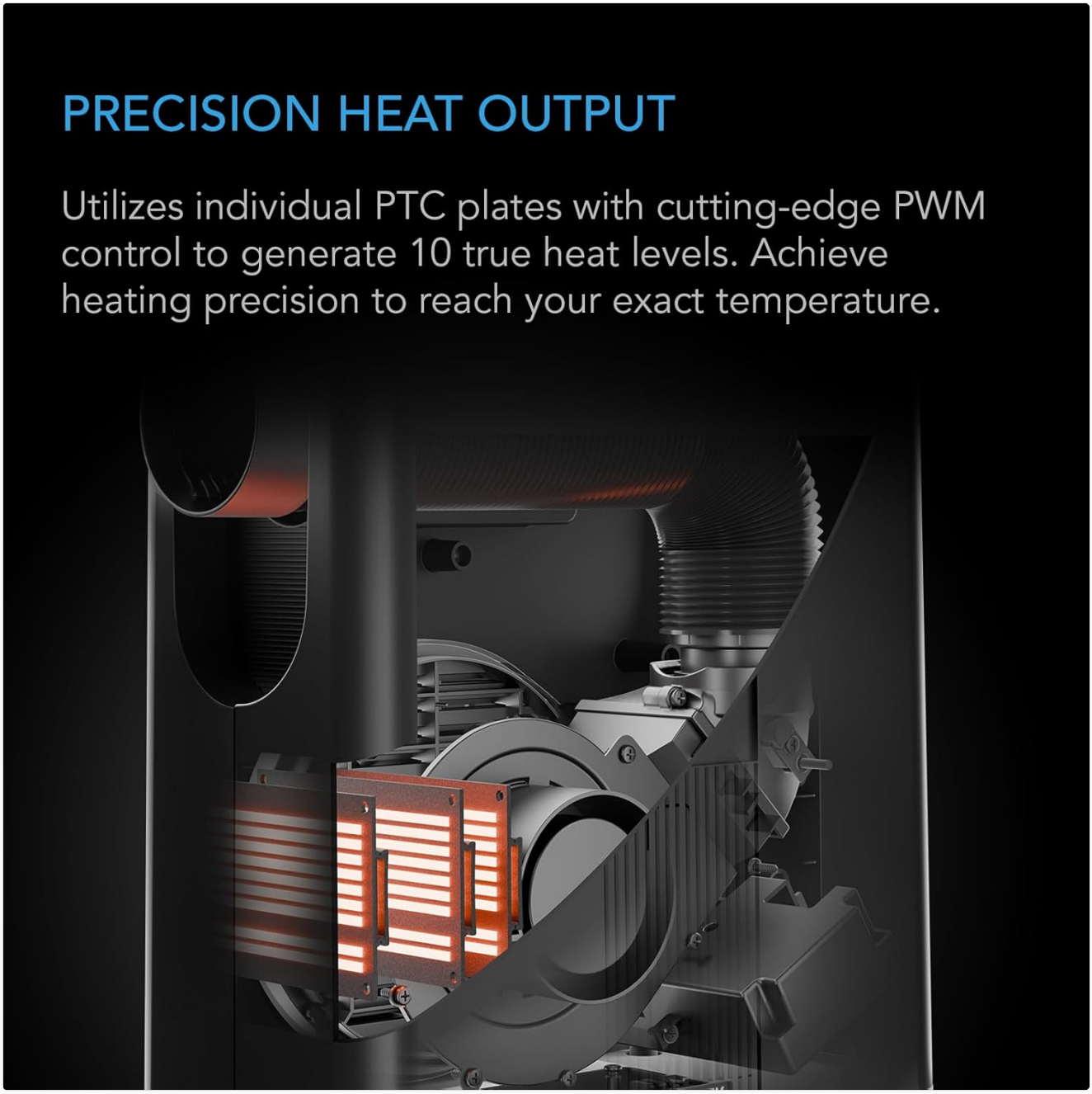

Figure 6: Illustration of the PTC heating plates for precision heat output.

Timer and Cycle Programming:

Program the heater to operate on specific schedules or cycles.

- Access the timer settings through the menu.
- Set ON/OFF times or countdown timers for automated operation.

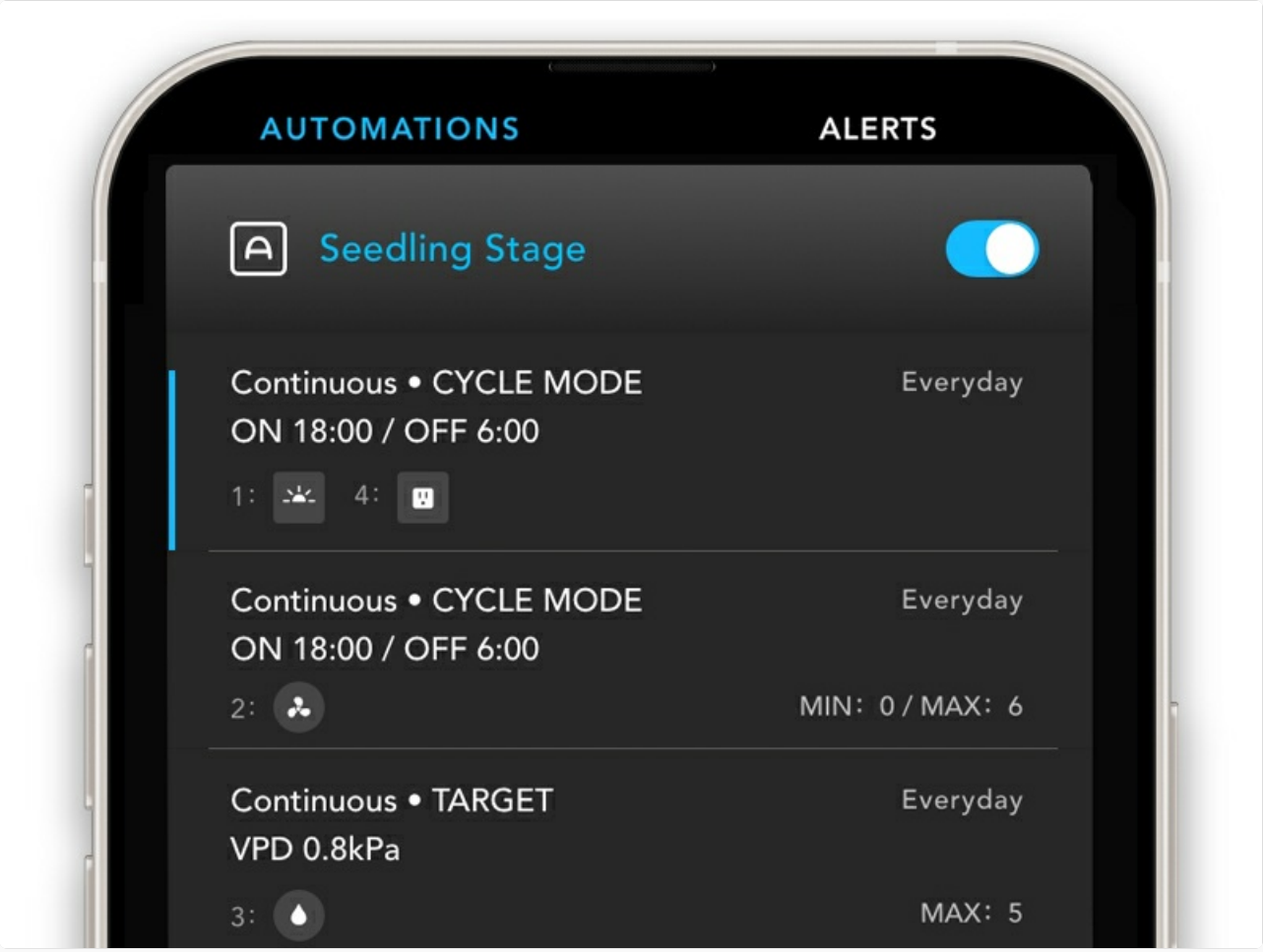

Figure 7: Timer programming options for the THERMOFORGE T3.

Fan Mode for Fresh Air Intake:

The unit includes a 10-level fan mode that can be used to introduce fresh air into your grow tent without activating the heating elements.

- Select the fan mode from the menu.
- Adjust the fan speed (levels 1-10) as needed.

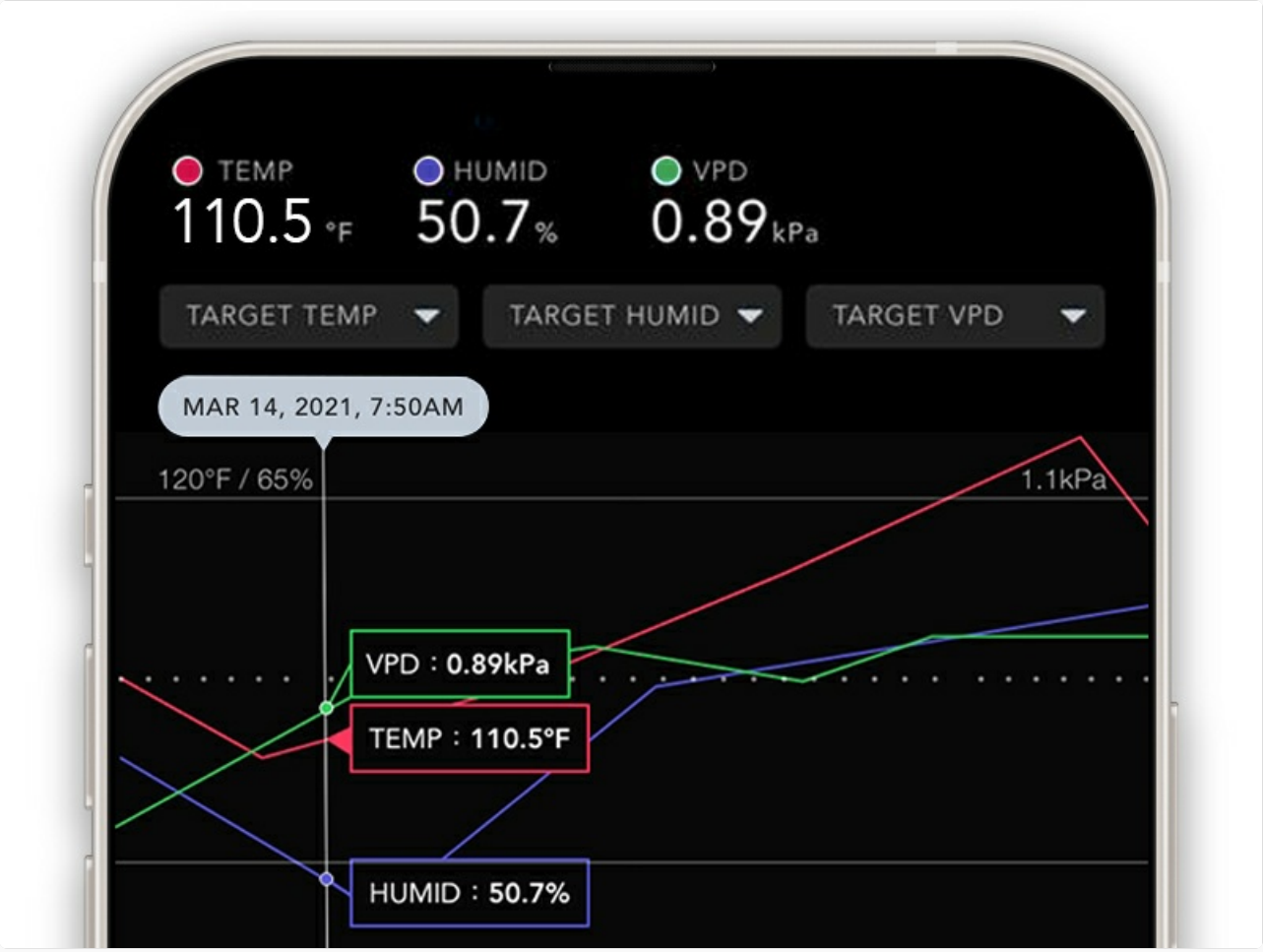

Figure 8: Internal airflow diagram illustrating the fresh air intake mode.

UIS™ Platform Integration:

The THERMOFORGE T3 can be integrated with AC Infinity's Universal Intelligent System (UIS™) controllers for advanced automation and control of up to 32 smart grow devices.

- Connect the THERMOFORGE T3 to a compatible UIS controller (e.g., Controller 69 Pro Plus).
- Utilize the AC Infinity app to monitor environmental conditions, program complex automations, and receive alerts.
- This integration allows for true 0-100% output control and enhanced energy efficiency.

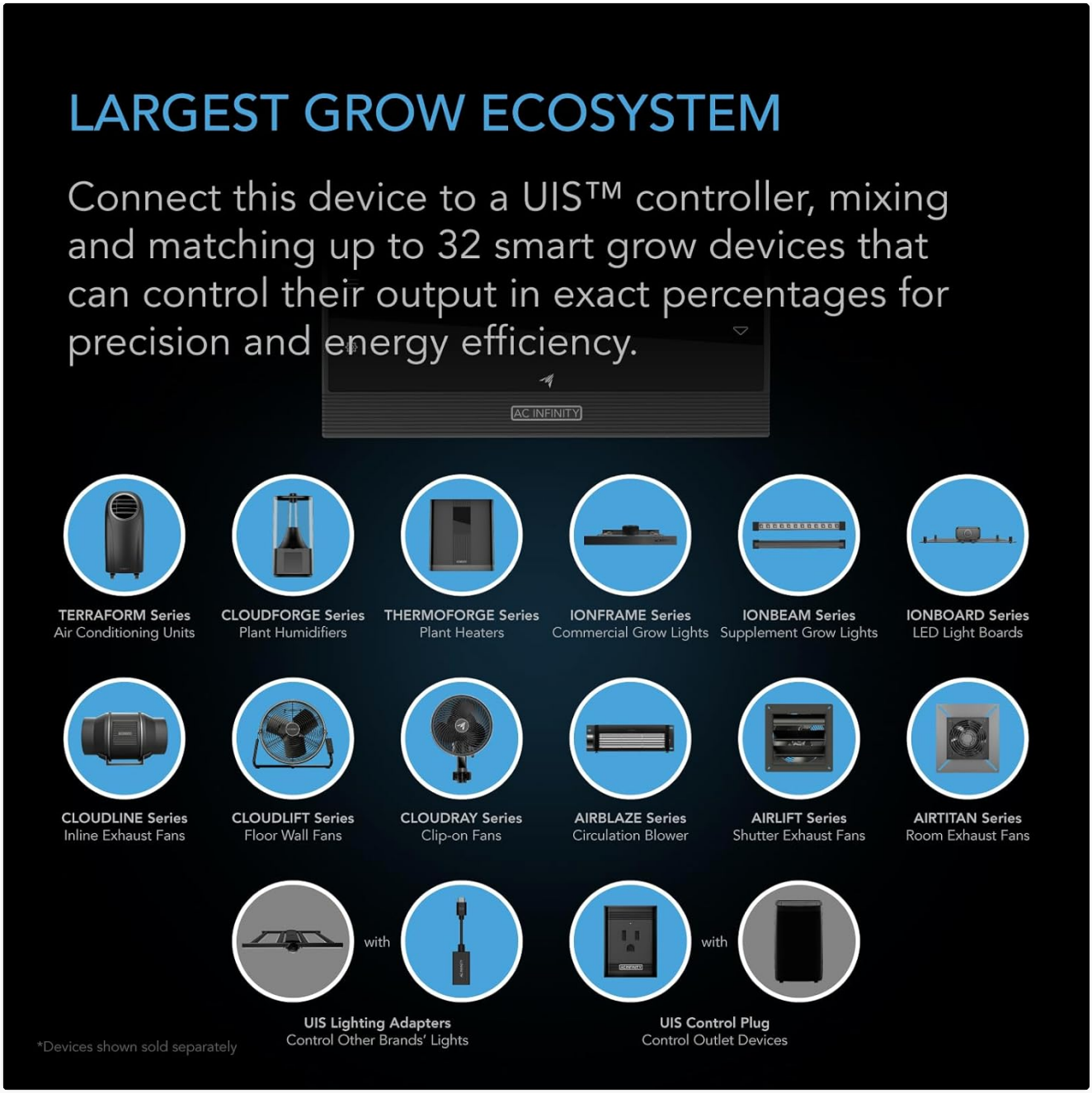

Figure 9: The THERMOFORGE T3 as part of the larger AC Infinity UIS™ grow ecosystem.

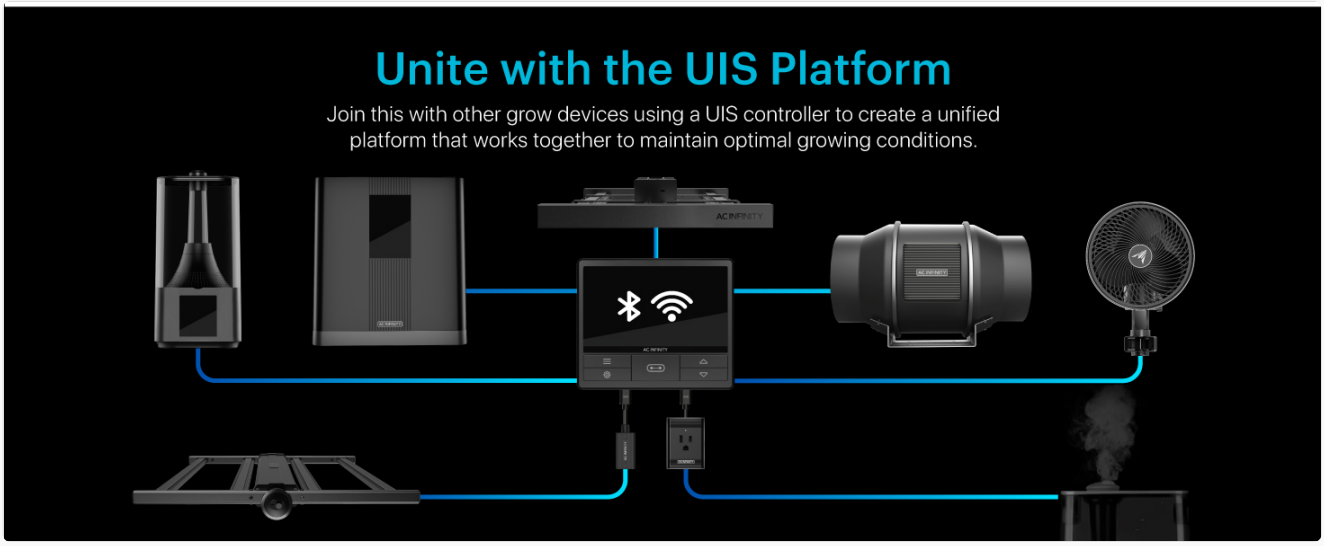

Figure 10: Connecting the THERMOFORGE T3 to a UIS controller for app control.

Maintenance

- **Cleaning:** Periodically wipe the exterior of the unit with a soft, dry cloth. Ensure the air intake and exhaust vents are free from dust and debris to maintain optimal airflow.
- **Hose Inspection:** Regularly inspect the extension hose for any kinks, tears, or blockages.
- **Storage:** When not in use, store the THERMOFORGE T3 in a cool, dry place, away from direct sunlight and extreme temperatures.

Troubleshooting

Problem	Possible Cause	Solution
Unit does not power on.	No power, loose connection, unit safety shutoff.	Check power outlet and cable connection. Ensure unit is upright and not tilted. Allow unit to cool if it overheated.
Insufficient heating.	Incorrect temperature setting, grow space too large, hose obstruction.	Verify target temperature. Ensure grow space is within recommended size (up to 5'x5'). Check hose for kinks or blockages. Increase heat level.
Display not showing readings.	Sensor probe disconnected or faulty.	Ensure sensor probe is securely connected. If issue persists, contact support.
Unit shuts off unexpectedly.	Overheat protection, tilt protection activated.	Ensure unit is on a stable surface and not tilted. Check for obstructions around vents. Allow unit to cool down.

Specifications

Feature	Detail
Model	THERMOFORGE T3 (AC-SFT3)
Smart Controls	VPD, Temperature, Timers, Cycles
Grow Space Size	Up to 5' x 5'
Heat Levels	10 Levels (PWM controlled)
Power	530 Watts
Voltage	120V AC
Amperage	5 Amps
Product Dimensions	5.94"D x 11.49"W x 12.12"H
Item Weight	9.18 pounds
Sensor Probe Length	144" (366.0 cm)
Power Cord Length	95.27" (242.0 cm)
Attached Hose Length	9.84" (25.0 cm) to 27.55" (70.0 cm)
Extension Hose Length	19.68" (50.0 cm) to 55.11" (140.0 cm)
UPC	819137024489

Figure 11: Detailed specifications and dimensions of the THERMOFORGE T3.

Warranty and Support

AC Infinity products are designed with quality and durability in mind. For warranty information, technical support, or assistance with your THERMOFORGE T3 heater, please visit the official AC Infinity website or contact their customer service department. Keep your purchase receipt for warranty claims.

Note: Specific warranty terms and conditions may vary and are subject to the manufacturer's policy at the time of purchase.

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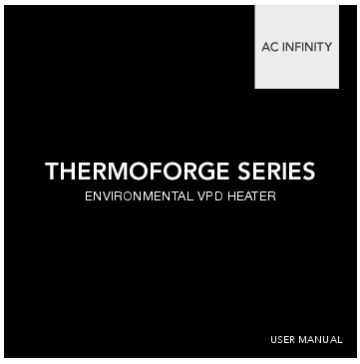
Related Documents - AC-SFT3

	Thermoforge T7 Quick Start Guide - AC Infinity Quick start guide for the AC Infinity Thermoforge T7 heater, including product contents, installation, powering, setup, cleaning, programming, and warranty information.

	[AC Infinity Hydrone Series Dehumidifier Quick Start Guide - DHT2411X1] Quick start guide for the AC Infinity Hydrone Series dehumidifier (model DHT2411X1). Learn how to set up, power, drain, clean, and program your dehumidifier for optimal environmental control in grow tents.
	[AC Infinity Controller 69 PRO+ Quick Start Guide] A concise guide to setting up and operating the AC Infinity Controller 69 PRO+, an 8-port environmental controller for grow tents.
	[AC Infinity Cloudlab Series Heavy-Duty Grow Tent User Manual] User manual for the AC Infinity Cloudlab Series heavy-duty grow tents, covering setup, features, product contents, and warranty information.
	[AC Infinity IONBEAM GREEN LED Grow Light Manual and Features] Comprehensive guide to the AC Infinity IONBEAM GREEN LED grow light, covering features, installation, programming, UIS platform integration, and warranty information. Includes product details and safety warnings.
	[AC Infinity IONBOARD Series LED Grow Light System User Manual] Comprehensive user manual for the AC Infinity IONBOARD Series LED Grow Light System, covering key features, installation, setup, programming, and warranty information. Learn about Samsung LED diodes, even coverage, dimmable drivers, and UIS™ compatibility for models S22, S24, S33, and S44.

Documents - AC Infinity – AC-SFT3



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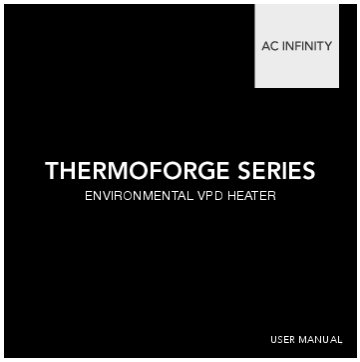

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