

iPower GLCTRLHEATCOOL15

iPower Professional Digital Heating and Cooling Temperature Controller GLCTRLHEATCOOL15 User Manual

1. SAFETY INFORMATION

Please read all safety instructions before operating this device. Failure to follow these instructions may result in electric shock, fire, or other hazards.

- Ensure the power supply matches the device's requirements (120VAC, 60Hz).
- Do not exceed the maximum load of 15A/1875W.
- Keep the controller and probe away from water or excessive moisture, except for the waterproof probe tip.
- Do not disassemble or modify the device. Refer all servicing to qualified personnel.
- Always unplug the controller from the power outlet before cleaning or performing maintenance.
- This device is equipped with overload protection. In case of an overload, the power output and screen display will automatically cut off to prevent damage.



Image 1.1: Overload Protection Feature. This image shows the iPower temperature controller with a visual indicator pointing to the power cord, emphasizing the 'OVERLOAD PROTECTED' text. It explains that in case of an overload, the power output and screen display will be cut off.

2. PRODUCT OVERVIEW

The iPower Professional Digital Heating and Cooling Temperature Controller is designed to maintain precise temperature control for various applications, including seed germination, reptile habitats, brewing, and greenhouse environments. It features dual outlets for simultaneous heating and cooling device control, a digital display, and a waterproof temperature probe.

2.1 Package Contents

- iPower Digital Temperature Controller (Model GLCTRLHEATCOOL15)
- Waterproof Temperature Probe
- User Manual

2.2 Key Features

- **Dual Functionality:** Controls both heating and cooling devices simultaneously.
- **High Accuracy:** Professional-grade waterproof temperature probe.
- **Digital Display:** Dual readouts for measured (PV) and set (SV) temperatures.
- **Unit Selection:** Supports both Fahrenheit (°F) and Celsius (°C).
- **Easy Operation:** Intuitive 6-button interface.
- **Overload Protection:** Enhances safety by cutting power during overloads.



Image 2.1: Front View of the iPower Temperature Controller. This image displays the main unit of the iPower temperature controller, showing its digital display, control buttons, heating and cooling outlets, power cord, and the attached temperature probe.

INDEPENDENT HEATING & COOLING



Image 2.2: Independent Heating & Cooling Functionality. This image illustrates how the controller can manage both a heating device (represented by a sun icon) and a cooling device (represented by a snowflake icon) simultaneously through its dedicated outlets.

LED DISPLAY & POWER INDICATORS

Clear and Easy to Read



Image 2.3: LED Display and Power Indicators. This image highlights the clear and easy-to-read LED display of the controller, showing temperature readings and indicating the status of heating and cooling operations.



Image 2.4: Wide Range of Uses. This image displays various applications for the iPower temperature controller, including

aquariums, greenhouses, seed germination, and reptile enclosures, demonstrating its versatility.

3. SETUP

3.1 Initial Placement

Place the controller in a dry, stable location. Ensure adequate ventilation around the unit.

3.2 Mounting (Optional)

The controller can be mounted on a wall using the two keyholes located on the back of the unit. Securely fasten the controller to a suitable surface using appropriate screws (not included).



Image 3.1: Wall Mounting Option. This image shows the iPower temperature controller mounted on a wall, highlighting the keyholes on the back for secure installation.

3.3 Connecting the Probe

Insert the temperature probe into the designated port on the controller. Position the probe in the environment where temperature monitoring and control are required. Ensure the probe tip is fully immersed or positioned correctly for accurate readings.

3.4 Connecting Devices

1. Plug your heating device into the outlet labeled 'HEATING'.
2. Plug your cooling device into the outlet labeled 'COOLING'.
3. Plug the controller's power cord into a standard 120VAC, 60Hz electrical outlet.

4. OPERATING INSTRUCTIONS

The controller features a 6-button interface for easy programming:

- **POWER:** Turns the unit on/off.
- **UP:** Increases values or navigates menus.
- **DOWN:** Decreases values or navigates menus.

- **SET**: Enters programming mode or confirms settings.
- **CF/ST**: Toggles between Celsius and Fahrenheit, or enters specific settings.
- **CLR**: Clears current input or exits programming mode.

4.1 Powering On/Off

Press the **POWER** button to turn the controller on. Press and hold the **POWER** button for approximately 3 seconds to turn it off.

4.2 Display Readings

- **PV (Process Value)**: Displays the current measured temperature by the probe.
- **SV (Set Value)**: Displays the target temperature you have set.

4.3 Setting Temperature Units (°F/°C)

Press the **CF/ST** button to toggle the temperature display between Fahrenheit (°F) and Celsius (°C).

4.4 Setting the Target Temperature (SV)

1. Press the **SET** button once. The SV display will begin to flash.
2. Use the **UP** or **DOWN** buttons to adjust the target temperature to your desired value.
3. Press the **SET** button again to confirm the setting and exit programming mode.

4.5 Heating and Cooling Operation

Once the target temperature (SV) is set, the controller will automatically activate the heating or cooling outlet based on the current measured temperature (PV) and the set differential (hysteresis, typically pre-set). If PV is below SV, the heating outlet activates. If PV is above SV, the cooling outlet activates.

5. MAINTENANCE

5.1 Cleaning

- Always unplug the controller before cleaning.
- Wipe the controller's surface with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- The temperature probe can be cleaned with a damp cloth. Ensure it is dry before re-inserting into any environment.

5.2 Storage

When not in use, store the controller in a cool, dry place, away from direct sunlight and extreme temperatures.

6. TROUBLESHOOTING

If you encounter issues with your iPower Temperature Controller, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
---------	----------------	----------

Problem	Possible Cause	Solution
Controller does not power on.	No power supply; Power button not pressed correctly.	Ensure the controller is securely plugged into a live outlet. Press and hold the POWER button for 3 seconds to turn on.
Controller does not turn on automatically after a power outage.	This model requires manual restart after power interruption.	After a power outage, manually press and hold the POWER button for 3 seconds to restart the unit.
Heating/Cooling device not activating.	Device not plugged in; Temperature not within activation range; Controller overload.	Check if the device is properly plugged into the correct outlet. Verify the set temperature (SV) and current temperature (PV). Check for overload condition.
Inaccurate temperature readings.	Probe improperly placed; Damaged probe.	Ensure the probe is correctly positioned and clean. If readings remain inaccurate, the probe may need replacement.
Controller trips circuit breaker.	Overload; Faulty device connected.	Ensure the total wattage of connected devices does not exceed 1875W. Test devices individually to identify a faulty one.

7. SPECIFICATIONS

Feature	Specification
Model Number	GLCTRLHEATCOOL15
Rated Voltage	120VAC, 60Hz
Max Loading	15A / 1875W, 1/2HP, TV-5
Probe Working Temperature	-58 to 230°F (-50 to 110°C)
Controller Working Temperature	-40 to 176°F (-40 to 80°C)
Product Dimensions	8.27 x 6.15 x 2.36 inches
Item Weight	1.45 pounds
Display Type	LCD
Probe Cable Length	75 inches (approx.)
Power Cable Length	75 inches (approx.)

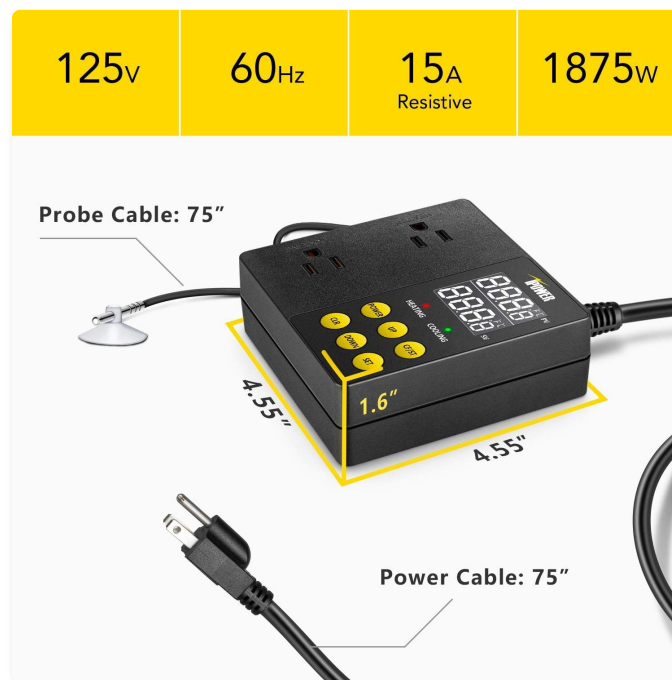


Image 7.1: Controller Dimensions and Cable Lengths. This image provides a visual representation of the controller's physical dimensions (4.55" x 4.55" x 1.6") and the lengths of both the probe cable and power cable (75" each).



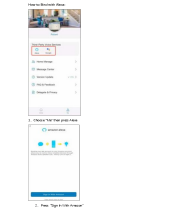
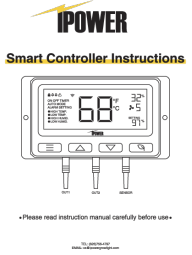



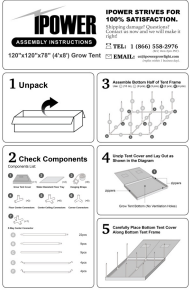
Image 7.2: Temperature Working Ranges. This image visually represents the working temperature ranges for both the controller (-40 to 176°F) and the probe (-58 to 230°F).

8. WARRANTY AND SUPPORT

iPower products are manufactured to high-quality standards. For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official iPower website. Please retain your proof of purchase for warranty claims.

For further assistance, you may contact iPower customer service through their official channels. Details are typically found on the product packaging or the manufacturer's website.

	<p>iPower Heat Mat Thermostat Manual</p> <p>A user manual for the iPower Heat Mat Thermostat, detailing its programming, technical specifications, setup instructions, and abnormal warnings. Designed to control temperature for plant and pet heat mats.</p>
	<p>iPower Inline Duct Fan and Variable Speed Controller Instruction Manual</p> <p>User manual for the iPower 4 Inch 230 CFM Inline Duct Fan and 350W Variable Speed Controller, detailing operating instructions, safety precautions, and warranty information for grow room ventilation systems.</p>
	<p>How to Bind iPower Devices with Alexa Voice Control</p> <p>A step-by-step guide on how to connect and control iPower smart home devices using Amazon Alexa for voice commands and automation.</p>
	<p>iPower Smart Controller Instructions</p> <p>Instructions for operating and programming the iPower Smart Controller, including details on different modes, settings, and alerts.</p>
	<p>iPower PWF2800KH Pressure Washer Quick Start Guide</p> <p>A quick start guide for the iPower PWF2800KH pressure washer, covering essential setup, operation, and safety instructions.</p>



[IPOWER 120"x120"x78" Grow Tent Assembly Instructions](#)

Step-by-step assembly guide for the IPOWER 120"x120"x78" (4'x8') grow tent, including component check and assembly process.