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> Inkbird ITC-308 Temperature and IHC-200 Humidity Controller Bundle User Manual

Inkbird ITC-308, IHC-200

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Models: ITC-308, IHC-200

Brand: Inkbird

INTRODUCTION

This manual provides detailed instructions for the safe and effective use of your Inkbird ITC-308 Temperature Controller and IHC-200 Humidity Controller Bundle. These devices are designed to precisely control temperature and humidity levels in various applications such as brewing, terrariums, greenhouses, and more. Please read this manual thoroughly before operation to ensure proper setup and to maximize the lifespan of your controllers.



Figure 1: Inkbird ITC-308 Temperature Controller (left) and IHC-200 Humidity Controller (right).

SAFETY PRECAUTIONS

- Ensure the power supply voltage matches the controller's requirements (240 Volts as per specifications).
- Do not immerse the main controller units in water or expose them to excessive moisture. The probes are waterproof, but the main units are not.
- Keep the controllers and probes away from flammable materials.
- Do not disassemble or modify the controllers. Refer all servicing to qualified personnel.
- Always unplug the controllers from the power outlet before cleaning or performing any maintenance.
- Ensure all connected devices (heaters, coolers, humidifiers, dehumidifiers) are within the controller's maximum load capacity.

PRODUCT OVERVIEW

Inkbird ITC-308 Temperature Controller

The ITC-308 is a plug-and-play temperature controller capable of controlling both heating and cooling devices. It features a dual LED display for current temperature (PV) and set temperature (SV), and includes a waterproof temperature probe.



Figure 2: Components of the ITC-308, including the main unit, temperature probe, and dual-outlet power strip.

- **PV Display:** Shows the current measured temperature.
- **SV Display:** Shows the set temperature value.
- **SET Button:** Used to enter and confirm settings.
- **Up/Down Buttons:** Used to adjust values.
- **Heating Outlet:** Connects to your heating device.
- **Cooling Outlet:** Connects to your cooling device.
- **Temperature Probe:** Waterproof sensor for temperature measurement.

Inkbird IHC-200 Humidity Controller

The IHC-200 is a plug-and-play humidity controller designed to manage both humidifying and dehumidifying devices. It features a dual LED display for current humidity (PV) and set humidity (SV), and includes a humidity probe.



Figure 3: Components of the IHC-200, including the main unit, humidity probe, and dual-outlet power strip.

- **PV Display:** Shows the current measured humidity.
- **SV Display:** Shows the set humidity value.
- **SET Button:** Used to enter and confirm settings.
- **Up/Down Buttons:** Used to adjust values.
- **Humidifying Outlet:** Connects to your humidifying device.
- **Dehumidifying Outlet:** Connects to your dehumidifying device.
- **Humidity Probe:** Sensor for humidity measurement.

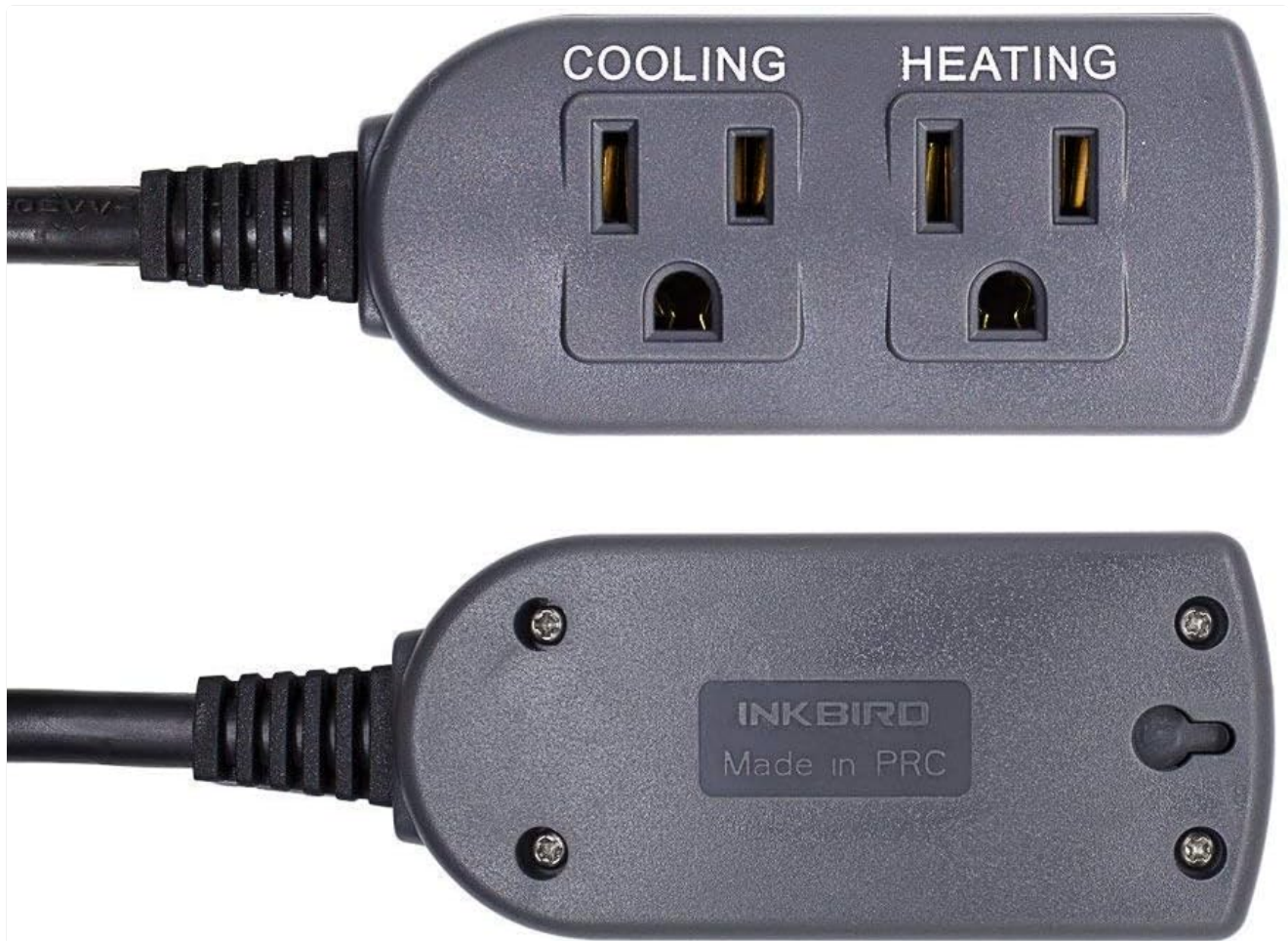


Figure 4: Detail of the power strip with clearly labeled "COOLING" and "HEATING" or "HUMIDIFYING" and "DEHUMIDIFYING" outlets.

SETUP

1. **Unpack:** Carefully remove the ITC-308 and IHC-200 controllers, probes, and power strips from their packaging. Inspect for any damage.

2. **Connect Probes:**

- For ITC-308: Plug the temperature probe into the designated port on the bottom of the ITC-308 main unit.
- For IHC-200: Plug the humidity probe into the designated port on the bottom of the IHC-200 main unit.

Ensure probes are securely connected. Place the probes in the environment where temperature/humidity needs to be monitored and controlled.

3. **Connect Devices:**

- For ITC-308: Plug your heating device (e.g., heat mat, ceramic heater) into the "HEATING" outlet and your cooling device (e.g., fan, chiller) into the "COOLING" outlet on the ITC-308 power strip.
- For IHC-200: Plug your humidifying device (e.g., fogger, humidifier) into the "HUMIDIFYING" outlet and your dehumidifying device (e.g., dehumidifier) into the "DEHUMIDIFYING" outlet on the IHC-200 power strip.

Ensure devices are properly rated for the controller's output and are in good working condition.

4. **Power On:** Plug the main power cord of each controller into a standard electrical outlet. The displays will light up, showing the current readings.

OPERATING INSTRUCTIONS

Setting Target Temperature (ITC-308)

1. Press the **SET** button once. The SV (Set Value) display will flash.
2. Use the **Up** or **Down** arrows to adjust the desired target temperature.
3. Press **SET** again to confirm and save the setting. The display will return to showing the current temperature.

Setting Target Humidity (IHC-200)

1. Press the **SET** button once. The SV (Set Value) display will flash.
2. Use the **Up** or **Down** arrows to adjust the desired target humidity.
3. Press **SET** again to confirm and save the setting. The display will return to showing the current humidity.

Advanced Settings (ITC-308 & IHC-200)

Both controllers share similar advanced setting menus. To access, press and hold the **SET** button for 3 seconds until the display shows a parameter code (e.g., "TS" for temperature setting on ITC-308, "HS" for humidity setting on IHC-200).

- **Calibration:** Allows fine-tuning of the probe reading. Adjust if the displayed value differs from a known accurate reference.
- **Alarm Function:** Set high and low alarm limits. The controller will sound an alarm if the measured value goes outside these limits.
- **Delay Protection:** A time delay before the output relay activates, protecting connected devices from rapid on/off cycling. This is particularly useful for compressors in cooling systems or humidifiers.

Refer to the specific user guide included with each controller for detailed instructions on navigating and adjusting all advanced parameters. The user guides provide a full list of parameter codes and their functions.



Figure 5: Example packaging and user guides for ITC-308 (left) and IHC-200 (right), which contain detailed parameter settings.

MAINTENANCE

- **Cleaning:** Wipe the controller units with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure

the units are unplugged before cleaning.

- **Probe Care:** Keep the probes clean. For temperature probes, ensure the metal tip is free of debris. For humidity probes, avoid physical damage to the sensor head.
- **Storage:** If storing for an extended period, unplug the units, clean them, and store them in a dry, cool place away from direct sunlight.
- **Cable Inspection:** Periodically check power cords and probe cables for any signs of wear, cuts, or damage. Replace if necessary.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Display shows "HHH" or "LLL"	Probe disconnected, damaged, or reading outside range.	Check probe connection. Replace probe if damaged. Ensure environment is within operating range.
Connected device not turning on/off	Incorrect settings, device malfunction, or power issue.	Verify set points and differential settings. Check if the connected device is working independently. Ensure power strip is fully plugged in.
Inaccurate readings	Probe dirty, damaged, or needs calibration.	Clean probe. Perform calibration as per operating instructions. Replace probe if damaged.
Alarm sounding unexpectedly	Measured value outside set alarm limits.	Check current reading and alarm settings. Adjust alarm limits or address environmental conditions.

If you encounter issues not listed here or if troubleshooting steps do not resolve the problem, please contact Inkbird customer support.

SPECIFICATIONS

- **Brand:** Inkbird
- **Models:** ITC-308 (Temperature Controller), IHC-200 (Humidity Controller)
- **Voltage:** 240 Volts
- **Control Type:** Button Control
- **Style:** Manual
- **Backlight:** Yes
- **Temperature Measurement Range (ITC-308):** (Typically -50°C to 99°C / -58°F to 210°F -*Not explicitly in JSON, common for Inkbird*)
- **Humidity Measurement Range (IHC-200):** (Typically 5% to 99% RH -*Not explicitly in JSON, common for Inkbird*)

Note: Specific operating ranges and accuracy details can be found in the individual product user guides.

WARRANTY AND SUPPORT

Inkbird products typically come with a manufacturer's warranty. Please refer to the warranty card included with your product or visit the official Inkbird website for detailed warranty terms and conditions.

For technical support, troubleshooting assistance, or warranty claims, please contact Inkbird customer service:

- **Email:** support@ink-bird.com
- **Website:** www.ink-bird.com

When contacting support, please have your product model numbers (ITC-308, IHC-200) and purchase information ready.