

Inkbird IHC-200+ITC-308

Inkbird ITC-308 Temperature Controller and IHC-200 Humidity Controller Combination Instruction Manual

Model: IHC-200+ITC-308

1. INTRODUCTION

This instruction manual provides comprehensive guidance for the safe and effective use of your Inkbird ITC-308 Digital Temperature Controller and IHC-200 Digital Humidity Controller. These devices are designed to precisely control temperature and humidity in various environments, ensuring optimal conditions for your specific needs. Please read this manual thoroughly before operation and retain it for future reference.

2. PRODUCT OVERVIEW

The Inkbird ITC-308 is a plug-and-play digital temperature controller capable of simultaneously controlling heating and cooling devices. The Inkbird IHC-200 is a plug-and-play digital humidity controller designed for humidification and dehumidification. Together, they offer a complete solution for environmental control.



Image 2.1: Inkbird ITC-308 and IHC-200 controllers.

Key Features:

- **ITC-308:** Digital thermostat with dual relay output for simultaneous heating and cooling control.
- **ITC-308:** Features an IP68 NTC stainless steel probe (2m), temperature calibration, compressor delay protection, and alarm functions for temperature limits or sensor failure.
- **IHC-200:** Digital hygrometer with dual relay output for simultaneous humidification and dehumidification.
- **IHC-200:** Includes a 2m humidity probe for accurate measurement and control.
- Suitable for various applications including brewing, aquariums, terrariums, plant cultivation, and reptile incubators.

3. SPECIFICATIONS

ITC-308 Temperature Controller:

Power Supply	220V AC, 50/60Hz
Power Consumption	Less than 3W
Temperature Control Range	-50°C to 120°C (-58°F to 248°F)
Temperature Resolution	0.1°C

Temperature Accuracy	±1°C
Sensor Type	NTC sensor (2m cable)
Relay Output	Heating: 10A/220V, Cooling: 10A/220V
Total Power Value	2200W / 220V

IHC-200 Humidity Controller:

Power Supply	220V AC, 50/60Hz
Power Consumption	Less than 3W
Humidity Measuring Range	5% to 99% RH
Humidity Control Range	10% to 99% RH
Humidity Resolution	1% RH
Humidity Accuracy	±3% RH
Sensor Type	Humidity sensor (2m cable)
Relay Output	Humidification: 10A/220V, Dehumidification: 10A/220V
Total Power Value	2200W / 220V

4. SETUP AND INSTALLATION

Before connecting any devices, ensure both the ITC-308 and IHC-200 controllers are unplugged from the power source.

4.1 Connecting the ITC-308 Temperature Controller

1. Plug the temperature probe into the designated port on the ITC-308.
2. Connect your heating device (e.g., heat mat, ceramic heater) to the 'Heating' outlet.
3. Connect your cooling device (e.g., fan, chiller) to the 'Cooling' outlet.
4. Position the temperature probe in the environment where temperature needs to be monitored and controlled.
5. Plug the ITC-308 controller into a power outlet.



Image 4.1: ITC-308 Temperature Controller connections.

4.2 Connecting the IHC-200 Humidity Controller

1. Plug the humidity probe into the designated port on the IHC-200.
2. Connect your humidification device (e.g., fogger, humidifier) to the 'Work 1' outlet.
3. Connect your dehumidification device (e.g., dehumidifier, fan) to the 'Work 2' outlet.
4. Position the humidity probe in the environment where humidity needs to be monitored and controlled.
5. Plug the IHC-200 controller into a power outlet.



Image 4.2: IHC-200 Humidity Controller connections.

4.3 General Connection Diagram



GREENHOUSE



HOMEBREW



SOUS VIDE



SEED PLANTING



INCUBATION



TURTLE TERRARIUM

Image 4.3: Example applications for the controllers.

5. OPERATING INSTRUCTIONS

5.1 ITC-308 Temperature Controller Operation

The ITC-308 allows you to set a desired temperature range. The heating device will activate when the temperature drops below the set point, and the cooling device will activate when it rises above the set point.

1. **View Set Temperature:** Press the 'SET' button once to view the current set temperature.
2. **Set Temperature:** Press and hold the 'SET' button for 3 seconds until the display flashes. Use the Up/Down arrows to adjust the desired temperature. Press 'SET' again to confirm.
3. **Temperature Calibration:** Refer to the full user manual for advanced settings like temperature calibration and compressor delay.

Video 5.1: Instructions for setting temperature on the ITC-308 controller.

5.2 IHC-200 Humidity Controller Operation

The IHC-200 allows you to maintain a specific humidity level. The humidification device will activate when humidity drops below the set point, and the dehumidification device will activate when it rises above the set point.

1. **View Set Humidity:** Press the 'SET' button once to view the current set humidity.
2. **Set Humidity:** Press and hold the 'SET' button for 3 seconds until the display flashes. Use the Up/Down arrows to adjust the desired humidity. Press 'SET' again to confirm.
3. **Humidity Calibration:** Refer to the full user manual for advanced settings like humidity calibration.

Video 5.2: Instructions for setting humidity on the IHC-200 controller.

6. MAINTENANCE

Regular maintenance ensures the longevity and accuracy of your controllers.

- **Cleaning:** Wipe the controller units with a soft, dry cloth. Do not use abrasive cleaners or immerse the units in water.
- **Probe Care:** Keep the temperature and humidity probes clean and free from debris. Avoid bending or damaging the probe cables.
- **Storage:** When not in use, store the controllers in a cool, dry place away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

If you encounter issues with your Inkbird controllers, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Display shows 'HHH' or 'LLL'	Sensor error or out of range.	Check sensor connection. Ensure the environment's temperature/humidity is within the device's operating range. Replace sensor if damaged.
Device not turning on/off as expected	Incorrect settings (set point, differential), device malfunction, or power issue.	Verify set point and differential settings. Check power supply to the controller and connected devices. Test devices independently.
Alarm constantly sounding	Temperature/humidity outside alarm limits, or alarm settings are too narrow.	Adjust alarm limits to suit your environment. Check if the environment is stable.

For further assistance, please contact Inkbird customer support.


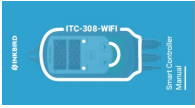
8. WARRANTY AND SUPPORT

Inkbird products are designed for reliability and performance. While specific warranty details may vary by region and retailer, Inkbird generally offers a limited warranty against defects in materials and workmanship.

For warranty claims, technical support, or any questions regarding your ITC-308 or IHC-200 controllers, please visit the official Inkbird website or contact their customer service department directly. Ensure you have your product model number and purchase information available when seeking support.

Related Documents - IHC-200+ITC-308

	<p>INKBIRD ITC-608T Temperature and Humidity Controller User Manual</p> <p>This user manual provides comprehensive instructions for the INKBIRD ITC-608T, a versatile digital controller designed for precise environmental management. It guides users through setup and operation for single temperature, dual temperature, programmable temperature, and humidity control applications.</p>
	<p>INKBIRD ITC-608T Smart Temperature Controller User Manual</p> <p>Comprehensive user manual for the INKBIRD ITC-608T smart temperature and humidity controller. This guide covers setup, operation, specifications, and technical assistance for various control modes.</p>
	<p>INKBIRD IHC-200 Humidity Controller User Manual</p> <p>This manual provides detailed instructions for the INKBIRD IHC-200 Plug-n-Play Humidity Controller, covering its specifications, button functions, operation, settings, error descriptions, and warranty information.</p>
	<p>INKBIRD IHC-200 Plug and Play Humidity Controller User Manual</p> <p>Detailed user manual for the INKBIRD IHC-200 Plug and Play Humidity Controller, covering specifications, operation, settings, error codes, and warranty information.</p>

 <p>The image shows the INKBIRD IHC-200-WIFI Humidity Controller. It is a blue and black digital device with a small LCD screen displaying '46.5' and '56.8'. Below the screen are two buttons with up and down arrows. The device has two cables attached to the bottom. The INKBIRD logo is at the top, and the model name 'IHC-200-WIFI' is printed at the bottom of the device.</p>	<p>INKBIRD IHC-200-WIFI Humidity Controller User Manual</p> <p>Comprehensive user manual for the INKBIRD IHC-200-WIFI Humidity Controller, detailing product features, technical specifications, Wi-Fi connectivity setup, operational settings, basic functions, alarm systems, safety precautions, and warranty information.</p>
 <p>The image shows the INKBIRD ITC-308-WIFI Temperature Controller. It is a blue and black digital device with a small LCD screen displaying '16.5'. Below the screen are two buttons with up and down arrows. The device has two cables attached to the bottom. The INKBIRD logo is on the left, and the model name 'ITC-308-WIFI' is printed at the top of the device.</p>	<p>INKBIRD ITC-308-WIFI Temperature Controller User Manual</p> <p>Comprehensive user manual for the INKBIRD ITC-308-WIFI Wi-Fi enabled temperature controller, covering setup, operation, specifications, FCC compliance, and troubleshooting.</p>