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Luxbird LB-HT04

LUXBIRD LB-HT04 Seedling Heat Mat System User Manual

Model: LB-HT04

1. Product Overview

The LUXBIRD LB-HT04 Seedling Heat Mat System is designed to provide consistent, controlled warmth for various applications, including seed starting, plant germination, hydroponics, home brewing, DIY fermentation, and reptile terrariums. This system includes multiple heat mats and a digital thermostat controller for precise temperature management.

Key Features:

- **Unified Control:** Manage up to six heat mats concurrently with a single digital thermostat controller.
- **Optimal Size:** Each heat mat measures 10" x 20.75", suitable for standard 1020 plant trays.
- **Enhanced Germination:** Maintains root area temperatures between 68-86°F (20-30°C) to significantly improve germination rates.
- **User-Friendly Operation:** The attached controller features an NTC probe for real-time soil temperature monitoring and easy temperature adjustments.
- **Durable and Safe:** Constructed from durable PVC material with a fireproof surface and an IP67 waterproof rating, making it anti-abrasion, dustproof, and easy to clean.
- **Daisy-Chain Design:** Heat mats can be connected in series using waterproof connectors for flexible setup in greenhouses and grow tents.



Figure 1: Overview of the LUXBIRD Seedling Heat Mat System with multiple mats connected to a single controller for unified management.

2. Safety Information

Please read and understand all safety instructions before using the LUXBIRD Seedling Heat Mat System. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Electrical Safety:** Ensure the power outlet matches the voltage requirements of the device. Do not overload electrical outlets.
- **Water Exposure:** While the mats are IP67 waterproof, avoid submerging the controller or power plug in water. Do not use if any part of the system is damaged or frayed.
- **Placement:** Place the heat mats on a flat, stable, and dry surface. Do not fold or crease the mats, as this can damage the internal heating elements.
- **Ventilation:** Ensure adequate air circulation around the mats to prevent overheating. Do not cover the mats with insulating materials other than plant trays.

- **Children and Pets:** Keep the device out of reach of children and pets.
- **Unplug When Not in Use:** Always unplug the system from the power outlet when not in use or before cleaning.

3. Package Contents

Verify that all components are present and undamaged upon opening the package:

- 4 x LUXBIRD Seedling Heat Mats (10" x 20.75")
- 1 x Digital Thermostat Controller
- 1 x NTC Temperature Probe

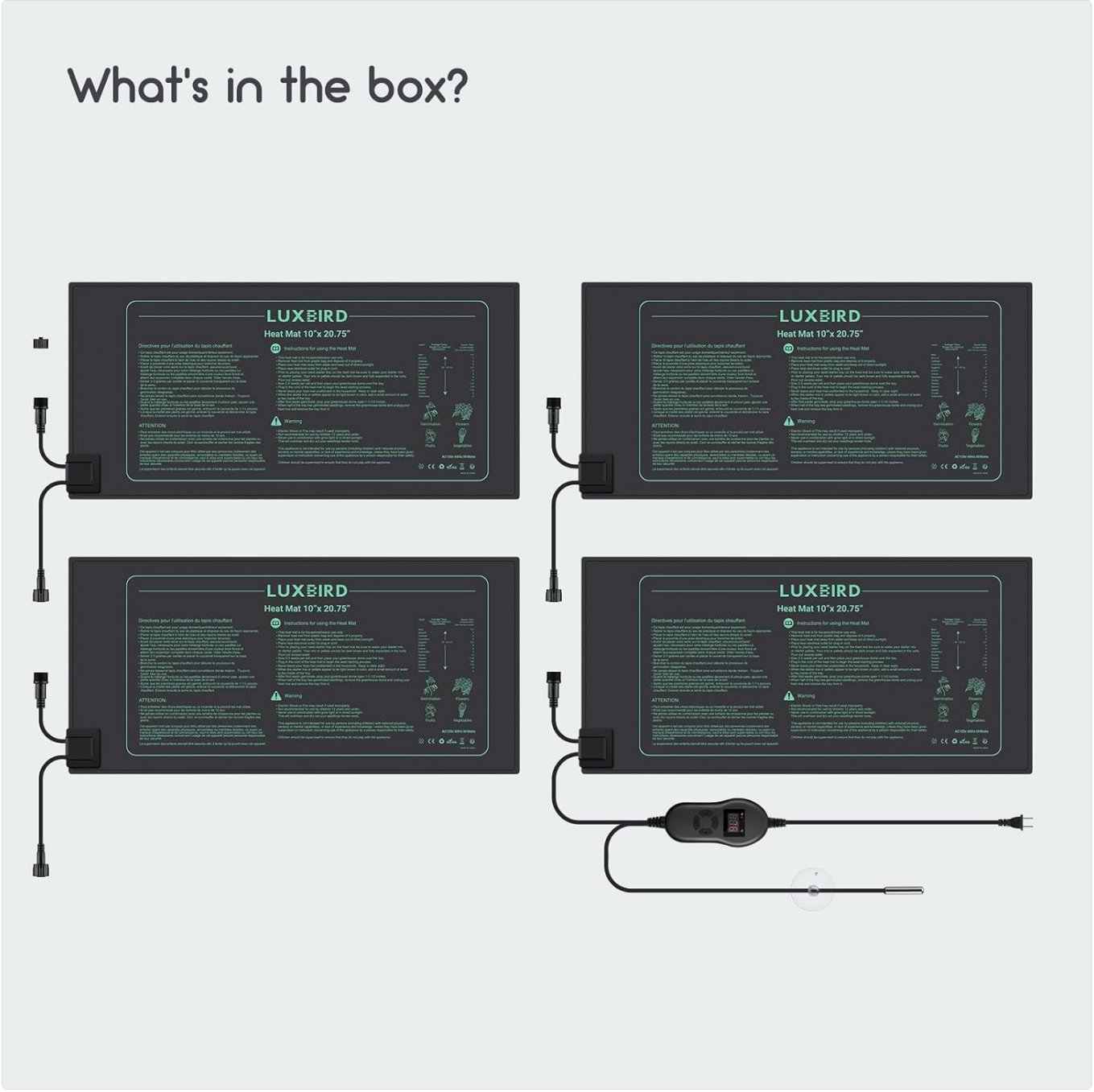

Figure 2: All components included in the LUXBIRD Seedling Heat Mat System package.

4. Setup Instructions

4.1. Unpacking and Placement

1. Carefully remove all components from the packaging.
2. Unroll the heat mats and place them on a flat, dry, and stable surface where they will be used. Ensure there are no folds or creases.

4.2. Connecting the Heat Mats

1. Connect the first heat mat (master mat) to the digital thermostat controller.
2. For additional mats, connect them in a daisy-chain fashion using the waterproof connectors provided on each mat. Up to six mats can be connected to a single controller.
3. Ensure all connections are secure and waterproof.



Figure 3: Daisy-chain connection of multiple heat mats to the thermostat controller.

4.3. Positioning the Temperature Probe

1. Insert the NTC temperature probe into the growing medium (e.g., soil, water) where you want to monitor and control the temperature.
2. Ensure the probe is positioned accurately to reflect the temperature of the root zone or desired area.



Figure 4: Proper placement of the temperature probe for real-time monitoring.

5. Operating Instructions

5.1. Powering On/Off

1. Plug the digital thermostat controller into a standard electrical outlet. The display will illuminate.
2. To turn off the system, unplug the controller from the outlet.

5.2. Setting the Desired Temperature

1. Press the **SET** button on the controller. The current set temperature will flash.
2. Use the **UP** (▲) and **DOWN** (▼) buttons to adjust the temperature to your desired setting. The temperature range is 32°F to 108°F (0°C to 42°C).
3. Press **SET** again to confirm the temperature. The display will stop flashing and show the current probe temperature.

5.3. Switching Temperature Units (°C/°F)

To switch between Celsius and Fahrenheit, press and hold the**UP** (▲) button for approximately 3 seconds until the unit changes on the display.



Figure 5: Digital thermostat controller for precise temperature control.

▶ **Watch video online**
Daisy Heating Mat With Thermostat

Video 1: An official video demonstrating the Daisy Heating Mat with Thermostat, showcasing its features and operation.

6. Maintenance and Care

Proper maintenance ensures the longevity and optimal performance of your heat mat system.

- **Cleaning:** Unplug the system before cleaning. Wipe the heat mats and controller with a damp cloth. Do not use abrasive cleaners or immerse the controller in water. Ensure all components are completely dry before

reconnecting to power.

- **Storage:** When not in use, clean the mats and store them flat or loosely rolled in a cool, dry place. Avoid folding or creasing the mats.
- **Inspection:** Regularly inspect the mats and cables for any signs of damage, such as cuts, fraying, or discoloration. Discontinue use if any damage is observed.



Figure 6: The heat mats are made of durable, IP67 waterproof PVC material for easy cleaning and resistance to abrasion and dust.

7. Troubleshooting

If you encounter issues with your LUXBIRD Seedling Heat Mat System, refer to the following common problems and solutions:

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Heat mats not heating	No power, loose connection, controller malfunction, temperature set too low.	Check power outlet, ensure all cables are securely connected. Verify controller settings and increase target temperature if necessary.
Uneven heating across mats	Mats not laid flat, probe not accurately placed, external cold drafts.	Ensure mats are completely flat. Reposition the temperature probe to the area requiring precise control. Minimize cold drafts around the mats.
Temperature display is inaccurate	Probe not fully inserted, probe damaged, external factors.	Ensure the NTC probe is fully and correctly inserted into the medium. If the probe is damaged, it may need replacement.
Controller display not working	No power, controller malfunction.	Check power connection. If still unresponsive, contact customer support.

8. Product Specifications

- **Model Number:** YQ128 (Product Identifier: LB-HT04)
- **Mat Dimensions:** 10" x 20.75" (25.4 cm x 52.7 cm)
- **Power Output:** 30W per mat (for efficient performance)
- **Temperature Control Range:** 32°F ~ 108°F (0°C ~ 42°C)
- **Waterproof Rating:** IP67
- **Material:** Durable PVC with fireproof surface
- **Item Weight:** Approximately 3.21 pounds (for the 4-pack system)
- **Package Dimensions:** 11.14 x 5.83 x 5.55 inches
- **Manufacturer:** Luxbird

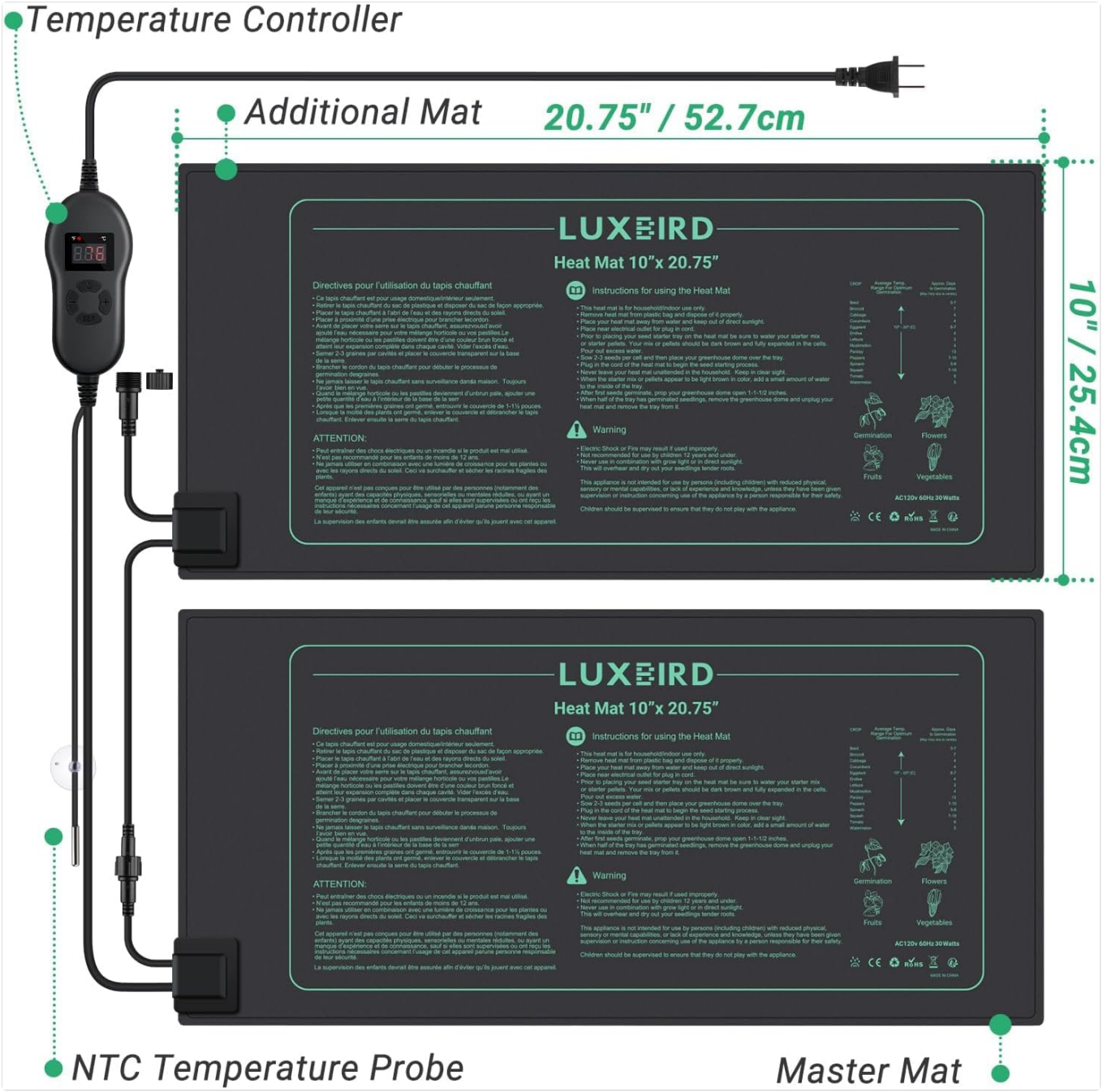

Figure 7: Key dimensions and components of the LUXBIRD heat mat system.

9. Warranty and Support

For warranty information, technical support, or any product-related inquiries, please refer to the official Luxbird website or contact their customer service directly. Keep your purchase receipt for warranty claims.

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