

## Spider Farmer XHC-F044

# Spider Farmer Seedling Heat Mat and Digital Thermostat Controller (Model XHC-F044) - Instruction Manual

Comprehensive guide for optimal plant germination and growth.

## 1. INTRODUCTION

This manual provides detailed instructions for the safe and effective use of your Spider Farmer Seedling Heat Mat and Digital Thermostat Controller. This product is designed to create an optimal warm environment for seed germination, rooting, and plant growth, ensuring healthier and more robust plants.

The Spider Farmer Seed Mat and Thermostat Controller are engineered for durability and precision, offering stable and uniform heat distribution. Please read all instructions carefully before operation.

## 2. SAFETY INFORMATION AND WARNINGS

**Please read and understand all safety warnings before using the product.**

- This appliance features a polarized plug (one blade is wider than the other). To reduce the risk of electric shock, this plug is intended to fit into a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician. Do not modify the plug in any way.
- Do not immerse the heat mat or the thermostat controller/probe in water. This can lead to electric shock or product damage.
- For indoor use only. Do not use outdoors or in environments exposed to direct weather.
- Avoid folding the heating pad on the surface when in use or during storage, as this may damage the internal heating elements.
- Keep the heating pad away from sharp objects to prevent punctures.
- Do not exceed a total of 1000 watts of heating devices plugged into the thermostat controller.

### 3. PRODUCT OVERVIEW

The Spider Farmer Seedling Heat Mat system includes a durable heat mat and a precise digital thermostat controller with a professional probe sensor. This combination ensures stable and uniform heat for your plants.



Figure 1: The Spider Farmer Seedling Heat Mat and Digital Thermostat Controller.

The heat mat features a five-layer structure with heavy-duty PVC and double-layer insulating PET, ensuring durability and compliance with MET and UL standards. Its IP67 waterproof rating allows for easy cleaning.



Figure 2: Illustration of the heat mat's five-layer durable and insulated construction.

### 4. SETUP INSTRUCTIONS

1. **Placement of Heat Mat:** Place the heat mat on a well-drained surface, ensuring no standing water. For optimal performance and to retain heat, place the mat on an insulated surface rather than a cold floor.
2. **Connect Power:** Plug the heat mat directly into a 120-volt power source.
3. **Connect Thermostat:** Plug the heat mat's power cord into the digital thermostat controller.
4. **Insert Probe:** Insert the professional probe sensor into the rooting area of your plants. This allows the thermostat to accurately measure and control the soil temperature.
5. **Optional Humidity Control:** Covering your plant tray with a humidity cover or dome will help maintain warmth and humidity, further aiding rooting.



Figure 3: Proper placement of the heat mat and thermostat for plant cultivation.

## 5. OPERATING INSTRUCTIONS (DIGITAL THERMOSTAT CONTROLLER)

The digital thermostat controller allows for precise temperature management, crucial for successful germination and rooting. The controller features an easy-to-read LED display and intuitive buttons.

# THERMOSTAT INSTRUCTIONS

1. Plug in the thermostat controller
2. Press and hold the "Set" button for 3 seconds to enter the temp setting
3. Press the UP/DOWN button to adjust the target temperature
4. Press the "Set" button again to complete the process

## Change between Fahrenheit/Celsius

- C** Press and hold the DOWN button for 3 seconds for Celcius
- F** Press and hold the UP button for 3 seconds for Fahrenheit



Figure 4: Detailed instructions for setting temperature and switching units on the digital thermostat controller.

## 5.1. Setting the Target Temperature

1. Plug the thermostat controller into a power outlet.
2. Press and hold the **'SET'** button for 3 seconds until the display flashes, indicating you are in temperature setting mode.
3. Use the **UP** (▲) or **DOWN** (▼) buttons to adjust the target temperature to your desired value.
4. Press the **'SET'** button again to confirm the setting and exit the temperature setting mode.

## 5.2. Switching Between Fahrenheit and Celsius

- To display temperature in Celsius (°C), press and hold the **DOWN** (▼) button for 3 seconds.
- To display temperature in Fahrenheit (°F), press and hold the **UP** (▲) button for 3 seconds.

## 5.3. Temperature Range

- **Temperature Setting Range:** 40°F-108°F (5°C-42°C)
- **Temperature Display Range:** 32°F-140°F (0°C-60°C)



Figure 5: Key features of the digital thermostat controller, including temperature range and accuracy.

## 5.4. Germination Chart

The heat mat includes a printed germination chart for various plants, providing approximate days to germination and optimal temperature ranges (70-85°F / 24-30°C).



Figure 6: The thermostat controller and a germination chart for various plant types.

## 5.5. Product Video: Spider Farmer Heating Mat with Thermostat Controller

This video demonstrates the Spider Farmer 48"X20" Heating Mat with Thermostat Controller in action, showcasing its features and ease of use for creating an optimal growing environment.

## 6. MAINTENANCE

The heat mat's IP67 waterproof rating makes it easy to clean. Simply wipe the mat with a damp cloth or wash it gently to remove any soil or debris. Ensure the mat is completely dry before plugging it back into a power source.

Store the mat rolled up in its dust-proof bag when not in use to protect it from damage and prolong its lifespan.

## 7. TROUBLESHOOTING

- **Mat Not Heating:** Ensure the mat is securely plugged into the thermostat controller, and the controller is plugged into a working 120V outlet. Check the thermostat settings to ensure the target temperature is above the current ambient temperature.
- **Uneven Heat:** Ensure the mat is placed on a flat, insulated surface. Avoid placing heavy objects directly on the mat that could impede heat distribution.
- **Temperature Fluctuations:** Verify that the probe sensor is correctly inserted into the rooting medium and is not exposed to ambient air. Ensure the humidity dome is properly placed to maintain a stable microclimate.
- **Controller Display Issues:** If the display is blank or showing errors, unplug the controller from the power source for 5 minutes, then plug it back in. If the issue persists, contact customer support.

## 8. SPECIFICATIONS

Feature	Detail
Model Number	XHC-F044
Heat Mat Dimensions	48" x 20.75" x 0.06"
Power Input	120VAC, 60Hz
Heat Mat Wattage	105 Watts
Temperature Setting Range	40°F-108°F (5°C-42°C)
Temperature Display Range	32°F-140°F (0°C-60°C)
Waterproof Rating	IP67
Certifications	MET, UL Certified, FCC, CE
Item Weight	3.96 pounds

## 9. WARRANTY AND SUPPORT

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Specific warranty details are not available in the provided product information. For any product-related inquiries, technical support, or warranty claims, please contact Spider Farmer customer service directly.

You may find contact information on the product packaging or on the official Spider Farmer website.