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› [KETOTEK 21W Seedling Heat Mat User Manual \(Model YQ103\)](#)

## KETOTEK YQ103

# KETOTEK 21W Seedling Heat Mat Instruction Manual

Model: YQ103

## INTRODUCTION

This manual provides essential instructions for the safe and effective use of your KETOTEK 21W Seedling Heat Mat. Please read this manual thoroughly before operation and retain it for future reference.

## IMPORTANT SAFETY INSTRUCTIONS

- **Do not immerse in water.** The mat is IP67 waterproof, but immersion is not recommended for the electrical connection.
- Do not place the heat mat on any heating or insulating device.
- Do not pierce the PVC surface of the heat mat.
- Always unroll the heat mat flat during use. Do not roll or fold it in half when powered on.
- Ensure the power cord is not damaged before use.
- Use only with a standard 220V power outlet.
- Keep out of reach of children and pets.
- For indoor use only.

**Warning:** Failure to follow these safety instructions may result in electric shock, fire, or damage to the product.

## PRODUCT FEATURES

- **Stable Heating System:** Automatically warms the rooting area 5-11°C (10-20°F) above ambient air temperature. Provides stable, even heat distribution without overheating.
- **Durable and Reliable:** Multi-layer structure with integrated insulated heating wire and PET film design. Meets strict CE standards.
- **Waterproof Design:** IP67 rated surface for easy and safe cleaning.
- **Energy Efficient:** Operates at only 21 watts, saving electricity.
- **Optimal Size:** Measures 25.2 cm x 52.6 cm (approximately 10" x 20.75"), suitable for standard 1020 seedling trays.

52.6cm

**KETOTEK Heat Mat 10" X 20.75"**

**Instructions for using Seeding Heat Mat**

- 1.Put the mat on a dry and flat surface.
- 2.Plug into the outlet or thermostat
- 3.Put propagation tray or other container on the mat
- 4.Cover seeds with a humidity dome
- 5.Work more than 20minutes to keep temperature 10~20°F/5~11°C above ambient temperature

**Warning**

- 1.Do not immerse in water.
- 2.Do not put mat on any heating or insulating device.
- 3.Do not put mat on rough pointed surface.

**Instructions d'utilisation du tapis chauffant pour semis**

1. Placez le tapis sur une surface sèche et plane.
2. Branchez dans la prise ou le thermostat
3. placez le plateau de propagation sur le tapis
4. Couvrir les graines avec un dôme d'humidité
5. Travaillez plus de 20 minutes pour maintenir la température 10 ~ 20 °F / 5 ~ 11 °C au-dessus de la température ambiante

**Warning**

1. Ne plongez pas dans l'eau.
2. Ne posez pas de tapis sur un appareil chauffant ou isolant.
3. Ne placez pas le tapis sur une surface pointue rugueuse.

**Anleitung zur Verwendung von Seedling Heat Mat**

1. Legen Sie die Matte auf eine trockene und flache Oberfläche.
2. Stecken Sie den Stecker in die Steckdose oder den Thermostat
3. Legen Sie die Vermehrungsschale auf die Matte
4. Samen mit einer Feuchtigkeitskuppel abdecken
5. Arbeiten Sie länger als 20 Minuten, um die Temperatur zu halten 10 ~ 20 °F / 5 ~ 11 °C über der Umgebungstemperatur

**Warning**

1. Tauchen Sie nicht in Wasser.
2. Legen Sie keine Matte auf ein Heiz- oder Isoliergerät.
3. Legen Sie die Matte nicht auf eine rauhe, spitze Oberfläche.

**Istruzioni per l'utilizzo del tappetino riscaldante per piante**

- 1.Metti il tappetino su una superficie asciutta e piana.
2. Collegare alla presa o al termostato
3. Posizionare il vassetto di propagazione sul tappetino
- 4.Coprire i semi con una cupola umida
- 5.Lavori più di 20 minuti per mantenere la temperatura 10 ~ 20 °F / 5 ~ 11 °C sopra la temperatura ambiente

**Warning**

1. Non immergere in acqua.
2. Non mettere il tappetino su alcun dispositivo di riscaldamento.
3. Non mettere il tappetino su una superficie appuntita rugueosa.

**Plant Approx. Days to Germination Average Temp. Range for Optimum Germination**

Basil	5-7	70°-85°F (22°-30°C)
Beans (Bush)	6-10	
Broccoli	7-10	
Cabbage	4-7	
Cilantro	6-8	
Cucumber	4-7	
Eggplant	6-8	
Lettuce	4-7	
Peppers	7-10	
Spinach	5-8	
Squash	7-10	
Tomato	5-8	
Watermelon	5-8	

**Seedlings**   
**Flowers**   
**Fruits**   
**Vegetables** 

Model:YQ103 230VAC 50HZ 21W  
Designed by ketotek Made in China  
CE IP67   
info@cnketotek.com

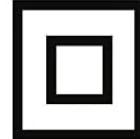
25.2cm



IP67

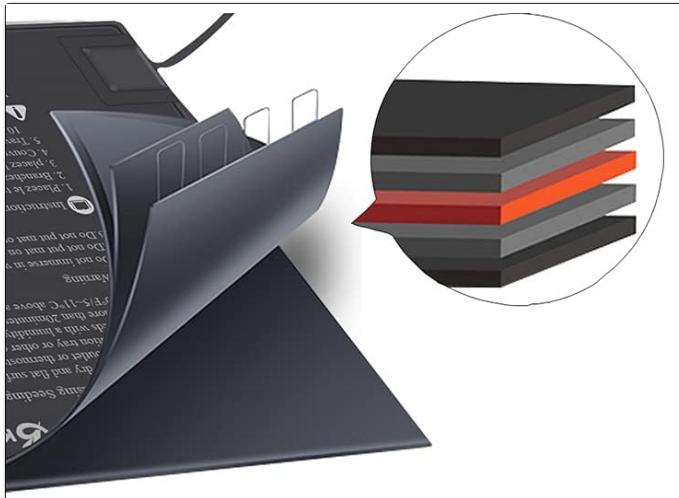


Energy conservation



Double  
Insulation

Image: The KETOTEK 21W Seedling Heat Mat, showing its rectangular shape and power cord.



## 5 Layers Structure

- Durable PVC material
- IP67 Waterproof & easy to clean
- Insulated PET layer:  
Double insulation, much safer for use
- Alloy Nikrothal Heating Wire:  
MET safety certified, more stable

## Sealed with high-frequency voltage

- Tightness, firmness, appearance, and precision are absolutely perfect.



## Nearly 2 meters of cable length

Image: Diagram illustrating the 5-layer structure of the heat mat, including durable PVC, insulated PET, and Nikrothal heating wire. Also shows the sealed edge and power cable.

### SETUP INSTRUCTIONS

1. **Unpack:** Carefully remove the heat mat from its packaging.
2. **Placement:** Lay the heat mat flat on a dry, stable, and level surface. Ensure there are no wrinkles or folds.
3. **Position Seedlings:** Place your seedling tray or propagation container directly on top of the heat mat. For best results, cover the tray with a humidity dome.
4. **Power Connection:** Plug the power cord into a standard 220V electrical outlet.
5. **Initial Warm-up:** Allow at least 20 minutes for the mat to reach its optimal operating temperature, which will be 5-11°C (10-20°F) above the ambient air temperature.



Image: The KETOTEK heat mat displaying printed instructions and a germination guide for various plants.

Warms Root Area **5°C~11°C**  
Over Ambient Temperature

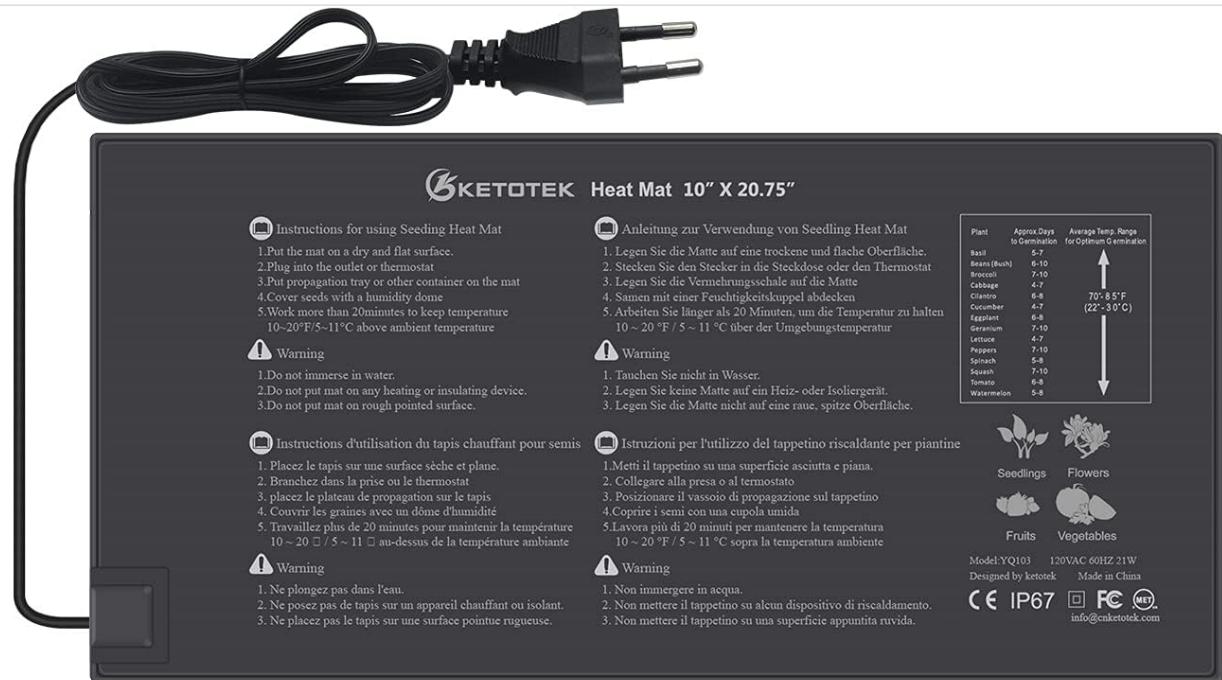


Image: The KETOTEK heat mat placed under seedling trays with young plants, illustrating the upward heat distribution.

## OPERATING INSTRUCTIONS

The KETOTEK Seedling Heat Mat is designed for continuous operation to maintain a consistent temperature for germination and rooting. It does not feature adjustable temperature controls. For precise temperature management, an external thermostat (sold separately) can be used.

- Once plugged in, the mat will begin to heat.
- Monitor the temperature of your rooting medium using a soil thermometer for optimal results.
- Ensure adequate ventilation to prevent excessive humidity, especially when using a humidity dome.



## Plants

## Reptile

## Home Brewing

Image: Examples of the heat mat's versatile applications, including plant propagation, reptile terrarium heating, and home brewing fermentation.

## Maintenance

- Cleaning:** Disconnect the mat from the power outlet before cleaning. Wipe the surface with a damp cloth. Do not use abrasive cleaners or immerse the mat in water.
- Storage:** When not in use, ensure the mat is clean and dry. Roll it loosely or store it flat in a cool, dry place, away from direct sunlight.
- Inspection:** Periodically inspect the mat and power cord for any signs of damage, such as cuts, fraying, or discoloration. If damage is found, discontinue use immediately.

# Waterproof

IP67



Unfold



Fold



Image: The KETOTEK heat mat with water droplets on its surface, demonstrating its IP67 waterproof capability for easy cleaning.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Mat is not heating	Not plugged in correctly Power outlet malfunction Damaged power cord or mat	Ensure the mat is securely plugged into a working 220V outlet. Test the outlet with another device. Inspect the mat and cord for damage. If damaged, discontinue use and contact support.
Mat is not warm enough	Ambient temperature is too low Mat not given enough time to warm up	The mat provides 5-11°C (10-20°F) above ambient. For higher temperatures, consider a warmer room or an external thermostat. Allow at least 20 minutes for the mat to reach full operating temperature.

Problem	Possible Cause	Solution
Mat is too hot	Ambient temperature is too high Mat placed on an insulating surface	Move the mat to a cooler environment. Ensure the mat is placed on a non-insulating, flat surface. If using an external thermostat, check its settings.

## SPECIFICATIONS

Model Number	YQ103
Power Output	21 Watts
Voltage	230V
Dimensions (L x W)	52.6 cm x 25.2 cm (approx. 10" x 20.75")
IP Rating	IP67 (Waterproof)
Temperature Increase	5-11°C (10-20°F) above ambient
Certifications	CE
Country of Origin	China

## WARRANTY AND SUPPORT

For warranty information or technical support, please contact KETOTEK customer service. Refer to your purchase documentation for specific warranty terms and contact details.

Email: [info@ketotek.com](mailto:info@ketotek.com)

Please have your model number (YQ103) and purchase date available when contacting support.