

Thermacell EX90

Thermacell EX90 Rechargeable Mosquito Repellent

User Manual

1. IMPORTANT SAFETY INFORMATION

Read all instructions and warnings before using this product. Failure to follow these instructions may result in product damage, fire, explosion, electrical shock, or other hazards, which may cause serious injury, death, or property damage.

- **Outdoor Use Only:** This device is designed for outdoor use. Do not use indoors, in tents, or in any enclosed area.
- **Keep Out of Reach of Children and Pets:** The repellent mats and device should be kept away from children and animals.
- **Avoid Direct Contact:** Do not touch the repellent mat directly. Wash hands thoroughly after handling.
- **Do Not Cover:** Ensure the device is not covered during operation to allow proper air circulation.
- **Charging:** Use only the provided USB charging cable. Do not charge near water or in damp conditions.
- **Storage:** Store the device and repellent refills in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Disposal:** Dispose of used repellent mats and the device according to local regulations. Do not incinerate.

2. PRODUCT OVERVIEW

The Thermacell EX90 is a rechargeable, scent-free mosquito repellent device designed to create a 20-foot (6-meter) zone of protection. It utilizes a proprietary formula to repel mosquitoes without sprays or lotions on your skin, making it ideal for various outdoor activities.



Image: The Thermacell EX90 device, showcasing its compact and durable design.

Key Features:

- 20-foot (6-meter) mosquito protection zone.
- Rechargeable lithium-ion battery with up to 9 hours of continuous use.
- Scent-free, no open flame, no messy sprays.
- Durable, rubber-armored design with IP54 rating for dirt and moisture resistance.
- Includes a carabiner for easy portability.

3. PACKAGE CONTENTS

Verify that all items are present in your package:



Image: Contents of the Thermacell EX90 Starter Kit, including the device, repellent refill, lanyard, carabiner, and USB charging cable.

- 1 x Thermacell EX90 Rechargeable Repellent Device
- 1 x 12-Hour Repellent Refill Cartridge
- 1 x USB Charging Cable
- 1 x Lanyard with Carabiner

4. SETUP

4.1 Inserting the Repellent Cartridge

1. Ensure the device is turned off.
2. Remove the top cap of the device by twisting it counter-clockwise and lifting it off.
3. Insert the repellent cartridge into the opening, ensuring it is seated firmly.
4. Replace the top cap by aligning it and twisting clockwise until secure.



Image: A diagram illustrating the process of inserting the repellent cartridge into the top of the Thermacell EX90 device.

4.2 Charging the Device

The device comes with a partial charge, but it is recommended to fully charge it before first use.

1. Locate the charging port on the device.
2. Connect the small end of the USB charging cable to the device's charging port.
3. Connect the large end of the USB cable to a compatible USB power source (e.g., wall adapter, power bank, computer USB port).
4. The indicator lights will show charging status. A full charge typically takes 3-4 hours.

STARTER KIT TROUSSE DE DÉMARRAGE

Ready to use / Prêt à l'emploi

**I REPELLER
I DISPOSITIF ANTI-MOUSTIQUE**

4.25 in
4,25 po
10,8 cm



**I REFILL 12 HOURS
MOSQUITO DEFENCE
I RECHARGE DE 12 HEURES
DÉFENSE CONTRE LES
MOUSTIQUES**



**I LANYARD AND CARABINER
I LONGE ET MOUSQUETON**



**I USB CHARGING CABLE
I CÂBLE DE CHARGE USB**



Image: The Thermacell EX90 device being charged via its USB cable.

5. OPERATING INSTRUCTIONS

5.1 Turning On/Off

- **To Turn On:** Press and hold the power button for approximately 2 seconds. The indicator lights will illuminate, and the device will begin to heat up.
- **To Turn Off:** Press and hold the power button for approximately 2 seconds. The indicator lights will turn off.

5.2 Understanding Indicator Lights

The device features indicator lights to communicate its status:

- **Solid Blue:** Device is on and operating normally.
- **Flashing Blue:** Device is heating up or cooling down.
- **Solid Red:** Low battery.
- **Flashing Red:** Very low battery, device will soon shut off.

- **Solid Green (during charging):** Fully charged.
- **Pulsing Green (during charging):** Charging in progress.

5.3 Optimal Placement for Protection

For best results, place the Thermacell EX90 device on a flat surface in the center of your desired protection zone. Allow 10-15 minutes for the zone to fully establish. Avoid placing it in strong winds, as this can reduce effectiveness.



Image: The Thermacell EX90 device positioned on an outdoor table, demonstrating its use in creating a mosquito-free zone for a group of people.

6. MAINTENANCE

6.1 Cleaning

Periodically wipe the exterior of the device with a damp cloth. Do not use abrasive cleaners or immerse the device in water.

6.2 Repellent Cartridge Replacement

Replace the repellent cartridge when the liquid is depleted. A 12-hour cartridge provides 12 hours of protection. Follow the instructions in Section 4.1 for insertion.

6.3 Battery Care

To prolong battery life, avoid fully discharging the battery frequently. If storing the device for an extended period, charge it to approximately 50% every few months.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device not turning on	Low or depleted battery.	Charge the device fully using the provided USB cable.
No visible vapor/mist	This device does not produce a visible mist. Repellent is diffused invisibly.	This is normal operation. Ensure the device is on and the cartridge is inserted.
Reduced mosquito protection	Repellent cartridge is empty or nearly empty. Strong winds. Device not allowed enough time to establish zone.	Replace the repellent cartridge. Move the device to a less windy location. Allow 10-15 minutes for the zone to establish.
Device not charging	Faulty USB cable or power source.	Try a different USB cable or power source. Ensure connections are secure.

8. SPECIFICATIONS

- **Model Number:** EX90
- **Dimensions (L x W x H):** 15.2 x 7.9 x 22.2 Centimetres
- **Weight:** 490 g
- **Power Source:** Battery Powered (1 Lithium Ion battery, included)
- **Battery Life:** Up to 9 hours (rechargeable)
- **Protection Zone:** 20 feet (6 meters)
- **Material:** Rubber
- **IP Rating:** IP54 (dirt and moisture resistant)

9. WARRANTY AND SUPPORT

9.1 Manufacturer's Warranty

The Thermacell EX90 Rechargeable Mosquito Repellent comes with a **1 Year Manufacturer Warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

9.2 Customer Support

For technical assistance, warranty claims, or product inquiries, please contact Thermacell Customer Support. Refer to the product packaging for the most current contact details.

Manufacturer: Thermacell Mosquito Repellents, Inc.

Place of Business: 943 Gainesville Highway Buford 30518

You can also visit the official Thermacell website for FAQs and additional support resources.