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› HEATIT Warmmat Electric Radiant Floor Heating System & ET-72 Thermostat Kit (40 sq.ft.) User Manual

HEATIT ET-72 KIT

HEATIT Warmmat Electric Radiant Floor Heating System & ET-72 Thermostat Kit (40 sq.ft.) User Manual

Model: ET-72 KIT

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1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your HEATIT Warmmat Electric Radiant Floor Heating System with ET-72 Thermostat Kit. This system is designed to provide comfortable and efficient heating for various floor types in residential and commercial settings. Please read this manual thoroughly before installation and use to ensure safe and optimal performance.



Figure 1: Overview of an underfloor heating system.

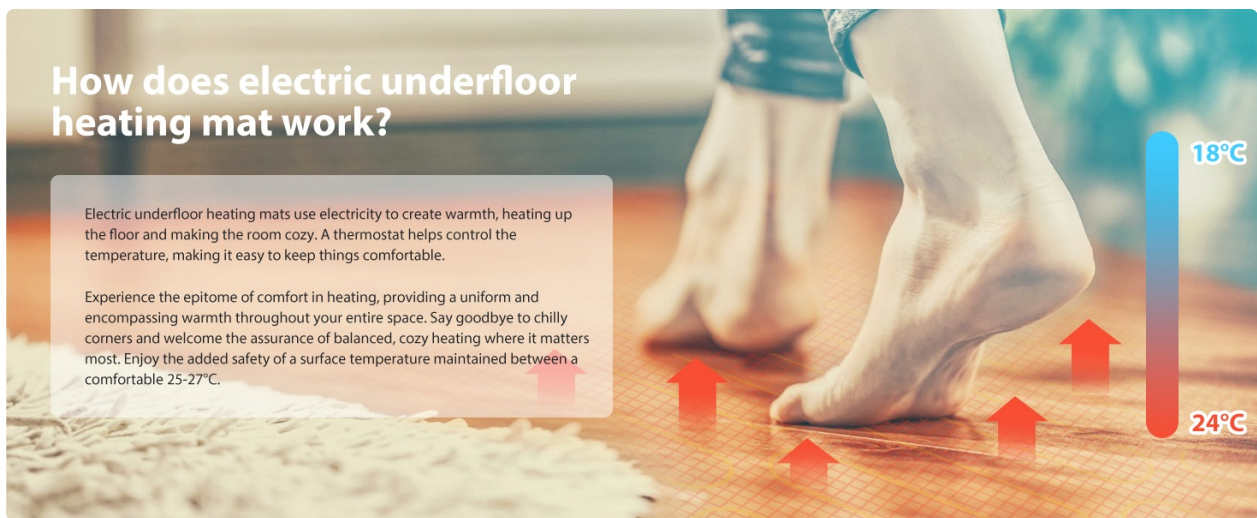


Figure 2: Radiant floor heating provides uniform warmth.

2. SAFETY INFORMATION

Your HEATIT Warmmat system is UL Listed for USA and Canada, ensuring high standards of electrical safety, thermal performance, and environmental responsibility. The heating element uses Fluoropolymer insulation, a heavy-duty plastic material.

- This system is suitable for wet applications, such as bathrooms, showers, kitchens, and laundry rooms.
- Do not install in pool and spa areas, or for outdoor use.
- The yellow heating element cable cannot be cut. Only the mesh material can be cut to adjust the mat layout.
- Always ensure proper electrical connections and follow local electrical codes during installation.
- A GFCI (Ground Fault Circuit Interrupter) thermostat is recommended for enhanced safety.

UL and CSA Certification

Discover peace of mind with our electric underfloor heating products, certified by globally recognized organizations CSA and UL. This validation underscores our commitment to quality, safety, and efficiency, ensuring your home is warmed reliably and securely. Embrace a cozy atmosphere, backed by our trusted certifications.

\$2 Million Insurance

Opt for security with our insured products, backed by a \$2 million policy—ensuring quality, safety, and your peace of mind. Protect your choice with us.

Transparency

The Transparency Program safeguards this product, enabling you to authenticate its genuineness. Each of our products features a unique Transparency code. This program guarantees the purchase of authentic brand products and underscores HEATIT's promise to product quality and customer satisfaction.



Figure 3: UL and CSA certifications ensure product safety and quality.

3. PACKAGE CONTENTS

Your HEATIT Warmmat Electric Radiant Floor Heating System & ET-72 Thermostat Kit includes the following components:

- HEATIT Warmmat (40 sq.ft.)
- ET-72 Electric Floor Heating Thermostat
- Alarm Monitor
- Floor Sensor Cable
- Nuts and Screws for installation
- User Manuals

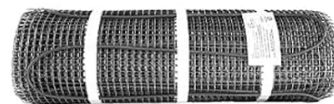
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Video 1: Unboxing the HEATIT Warmmat with ET-72 thermostat. This video demonstrates the contents of the product package, including the heating mat, thermostat, sensor cable, and other accessories.

Our heating cables have obtained the **UL certification**. They have undergone strict tests in multiple aspects including electrical safety, mechanical performance, and environmental adaptability, and meet international safety standards. Heating cables without UL certification pose great hidden dangers, such as the risks of electric leakage and overheating, which threaten daily life and work. **Please only choose certified heating cables.**



NO UL certification



Choosing our UL - certified heating cables. You can use them without worries for winter heating or industrial heating.

Figure 4: The HEATIT Warmmat, a self-adhesive electric radiant floor heating mat.



Energy Saving & Environmental Protection

- ✓ Using thermostat to change the Heating time and Temperature
- ✓ Advanced Heating Technology, converting electrical energy into heat energy, obtaining Higher Energy Utilization Rate

Figure 5: The ET-72 Digital Programmable Floor Heating Thermostat.

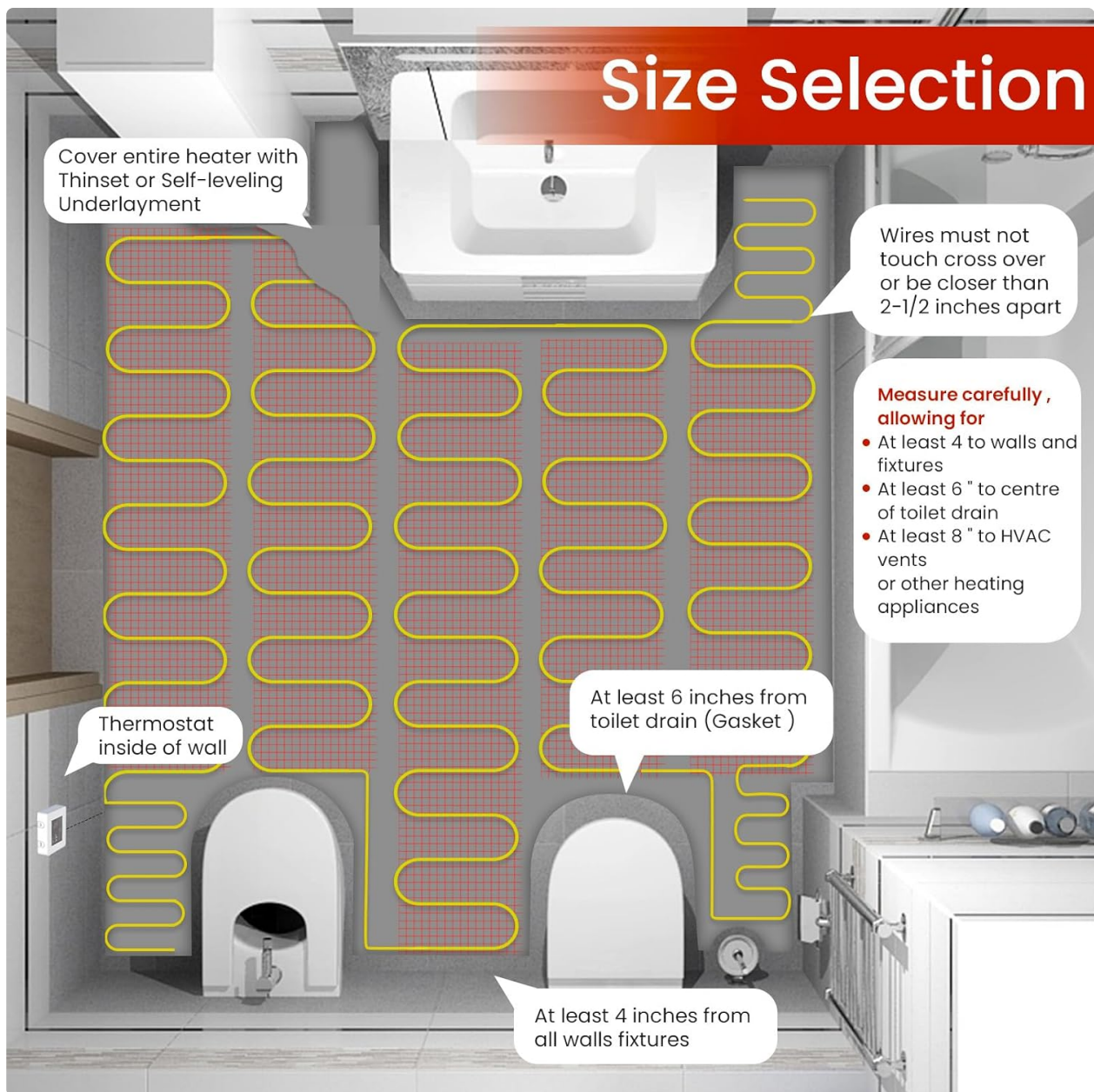


Figure 6: The Alarm Monitor for detecting wiring and system errors during setup.

4. PRODUCT FEATURES

- **Ultra-thin & Durable Heating Element:** Only 1/8" (3.2mm) thick, ensuring minimal floor height increase.
- **Pre-spaced Wire:** Heating cable is secured onto a tough fiberglass mesh backing for easy installation.
- **Self-adhesive Underlay:** Fully self-adhesive backing for ease of laying and permanent bonding to subfloors.
- **High Output:** Delivers 12 Watts per square foot for efficient heating.
- **Versatile Application:** Suitable for various floor coverings including ceramic tiles, natural stones, wood, laminate, vinyl, and linoleum.
- **Wet Location Approved:** CE/UKCA certified for safe use in wet locations like bathrooms, showers, kitchens, and laundry rooms.
- **ET-72 Thermostat:** Features a 4.0-inch HD VA display, weekly programmability (5+1+1 with 4 events per day), Auto/Hold/Holiday modes, open window detection, energy efficiency, floor temperature limit,

and adaptive function.

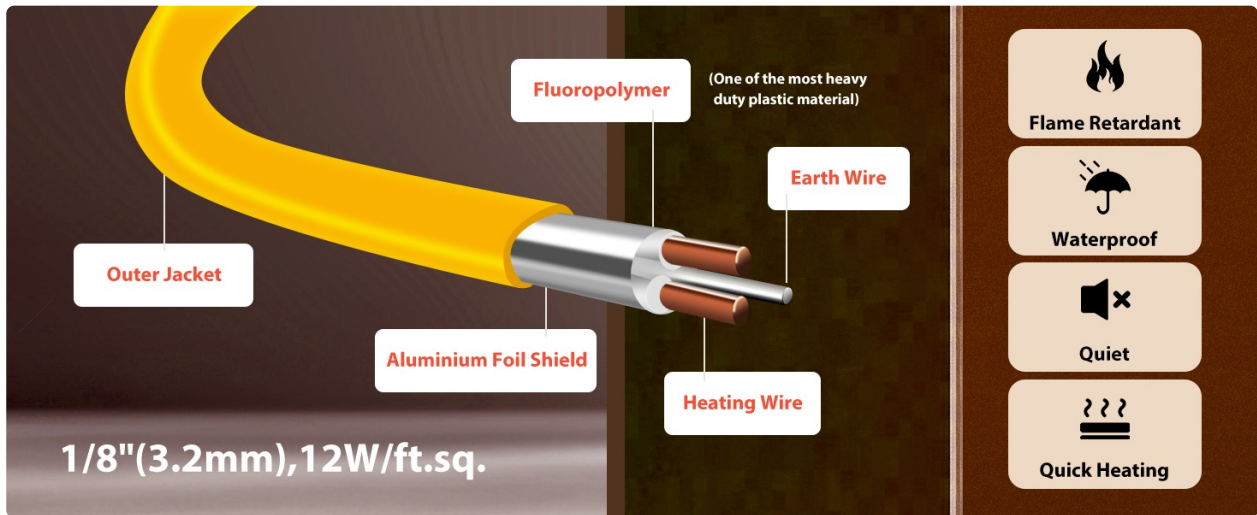


Figure 7: Components of the floor heating cable system.



Figure 8: Key features of the HEATIT Warmmat, including custom-fit mesh and strong adhesive backing.

5. INSTALLATION

5.1 Pre-Installation Preparation

- Ensure the subfloor is clean, dry, and level.
- Plan the mat layout carefully, avoiding permanent fixtures and ensuring proper spacing from walls and other heating appliances.
- Measure the area to be heated accurately.

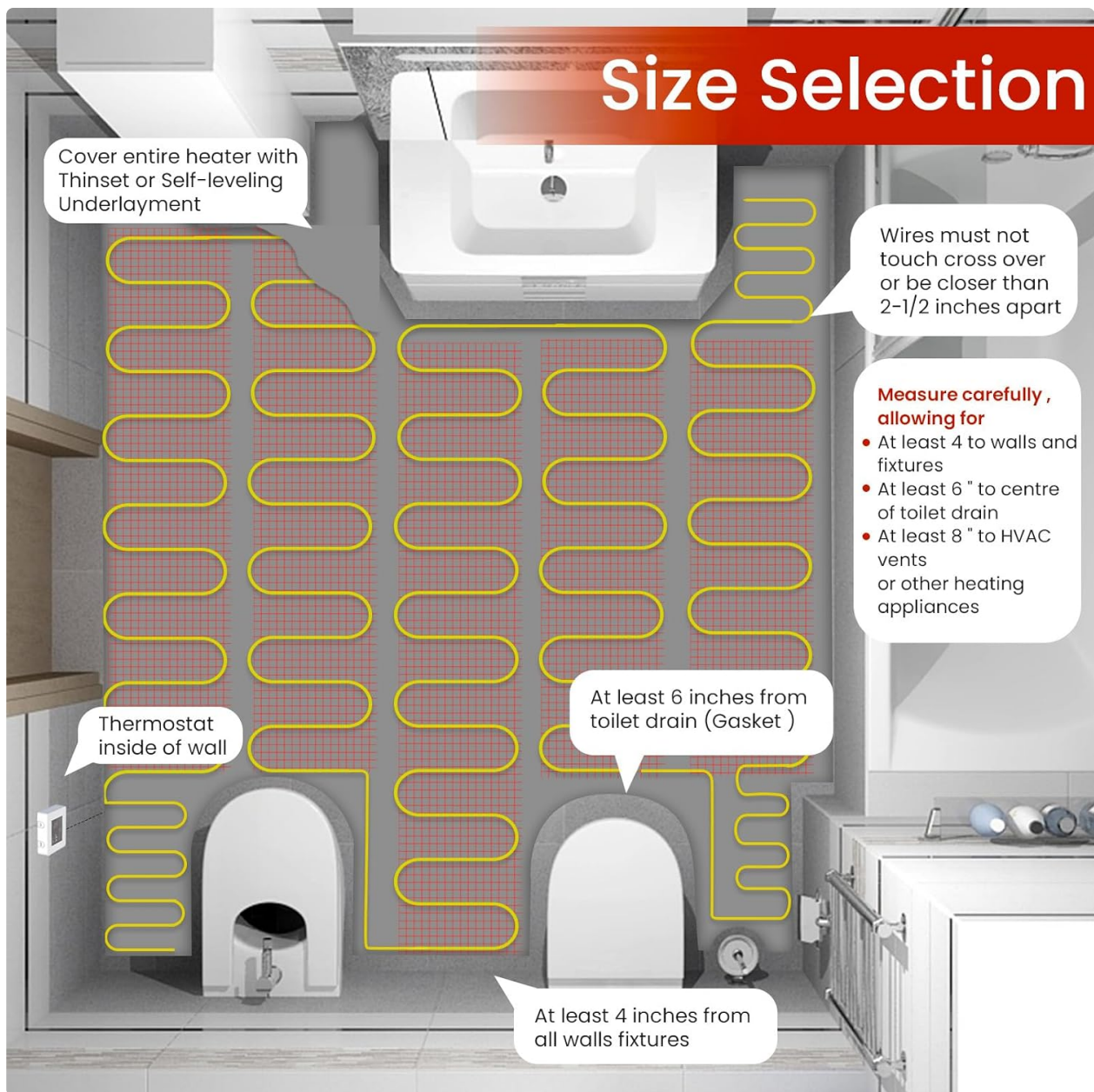


Figure 9: Example of a floor heating layout plan, showing required clearances from walls and fixtures.

5.2 Laying the Warmmat

- Roll out the self-adhesive mat onto the prepared subfloor.
- The mesh material can be cut to make turns and angles to fit the heated area. **Do not cut the yellow heating cable.**
- Ensure the heating cables do not cross over or touch each other.



Figure 10: Various techniques for cutting the mesh to navigate corners and obstacles, ensuring the heating cable remains intact.

5.3 Sensor and Thermostat Installation

- Install the floor sensor cable in a conduit between two heating cables, centered in the heated area.
- Mount the ET-72 thermostat in a standard electrical box on the wall.
- Connect the power supply, heating mat leads, and sensor cable to the thermostat as per the wiring diagram in the thermostat manual.
- Ensure all connections are secure and comply with electrical safety standards.

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Video 2: Detailed installation guide for the ET-72 Thermostat, including wiring and mounting steps.

5.4 Using the Alarm Monitor

The included Alarm Monitor helps detect wiring or system errors during the installation process. Connect the braided ground line of the cold lead to the green alligator clip, and the white and black wires of the cold lead to the red and black alligator clips. Switch the unit to "ON" to monitor for faults.



Figure 11: The Alarm Monitor helps ensure proper cable installation by detecting faults.

5.5 Suitable Floor Coverings and Substrates

The HEATIT Warmmat is compatible with a wide range of floor coverings and substrates:

- **Floor Coverings:** Tiles, engineered wood, laminate, vinyl, linoleum, natural stone, marble, ceramic, glass tile, porcelain tile, slate, granite.
- **Substrates:** Concrete substrates, timber substrates.



Figure 12: Visual guide to suitable ground materials for the heating system.

6. OPERATING INSTRUCTIONS (ET-72 THERMOSTAT)

The ET-72 thermostat provides precise control over your floor heating system. It features a touchscreen interface for easy navigation.

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Video 3: This video provides a comprehensive overview of the ET-72 Digital Programmable Floor Heating Thermostat's features and settings.

6.1 Display Overview

The thermostat display shows current temperature, set temperature, time, and day. Touch keys allow for navigation and setting adjustments.

6.2 Basic Settings

- **Mode Selection:** Choose between Auto, Manual, or Frost Protection modes.
- **Key Lock:** Lock the thermostat to prevent unintended changes. Long-press the Back key to unlock.
- **Schedule:** Set weekly heating schedules with options for 5+1+1 days or 7-day programming.
- **Program Settings:** Adjust specific heating events for each day.

6.3 Advanced Settings

Access advanced settings by pressing "SETTING" and then "OK" to enter edit mode. Use the Up/Down keys to navigate and adjust values.

1. **Set Time & Day:** Adjust the current time and day of the week.
2. **Set Temperature Unit:** Switch between Fahrenheit (°F) and Celsius (°C).

3. **Set Floor Sensor Type:** Configure the sensor type (e.g., 3950-10K).
4. **Set Sensor Type:** Select whether the thermostat uses room sensor, floor sensor, or both.
5. **Set Temperature Limit:** Define the maximum allowable floor temperature.
6. **Select Thermostat Location:** Choose between "OFFICE" or "HOME" modes, which may affect program stages.
7. **Adaptive Function:** This feature allows the thermostat to start operating according to the programmed weekly schedule ahead of time, ensuring the desired temperature is reached precisely when needed.
8. **Electric Energy Calculation:** View energy consumption data (e.g., for 1 day, 30 days, or 365 days).
9. **Factory Reset:** Reset all settings to their default factory values.

6.4 WiFi Connection

The ET-72 thermostat can be connected to your home WiFi network for remote control via a mobile application. Follow these steps:

1. Ensure your thermostat's WiFi indicator is flashing rapidly. If not, press and hold the up and down buttons on the thermostat for 5-10 seconds until it flashes.
2. Open the HEATIT mobile application on your smartphone.
3. Select "Add Device" and choose the appropriate thermostat model (e.g., Thermostat (Wifi 2.4+5G)).
4. Select your 2.4 GHz WiFi network and enter the password. (Note: If your WiFi is 5GHz, please set it to 2.4GHz for connection).
5. Confirm that the indicator light on the thermostat is rapidly blinking.
6. The app will discover and add your device. Once connected, you can control your thermostat remotely.

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Video 4: This video demonstrates the WiFi connection process for the ET-72 thermostat, allowing remote control via a mobile app.

7. MAINTENANCE

- The HEATIT Warmmat system is designed for zero maintenance once installed.
- Keep the thermostat display clean with a soft, dry cloth. Avoid abrasive cleaners.
- Regularly check for any visible damage to the thermostat or wiring. If damage is found, consult a qualified electrician.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Heating system not turning on	No power to thermostat, thermostat in OFF mode, GFCI tripped.	Check circuit breaker, ensure thermostat is ON, reset GFCI.

Problem	Possible Cause	Solution
Floor not heating to set temperature	Incorrect sensor reading, thermostat settings incorrect, open window detection activated.	Verify sensor connection, check thermostat mode and schedule, close windows.
Thermostat display is blank	No power, internal fault.	Check power supply, contact customer support if power is present.
WiFi connection issues	Incorrect WiFi password, 5GHz network selected, device not in pairing mode.	Ensure correct 2.4GHz WiFi, re-enter password, put thermostat in rapid flashing mode.

9. SPECIFICATIONS

- **Mat Size:** 40 sq.ft. (20" width, 24.4' length)
- **Voltage:** 120V
- **Amps:** 4.0A
- **Watts:** 480W
- **Output:** 12 Watts/Sqft
- **Heating Element Thickness:** 1/8"
- **Insulation Material:** Fluoropolymer
- **Certifications:** UL Listed for USA and Canada
- **Item Weight:** 6.95 pounds
- **Package Dimensions:** 23.43 x 8.27 x 7.76 inches

10. WARRANTY & SUPPORT

10.1 Limited Warranty

The HEATIT Warmmat heating mesh comes with a **30-year limited warranty**. This warranty is valid based on correct installation methods and completion of all test requirements as outlined in this manual and accompanying documentation.

10.2 Customer Support

For any questions, technical assistance, or warranty claims, please contact HEATIT customer support. Refer to the contact information provided in your product packaging or visit the official HEATIT website.

- [Visit the HEATIT Store on Amazon](#)

