VEVOR SHHC-1200

VEVOR SHHC-1200 100 sqft Floor Heating Mat System User Manual

Model: SHHC-1200

1. Introduction

This manual provides detailed instructions for the safe installation, operation, and maintenance of your VEVOR SHHC-1200 100 sqft Electric Radiant Floor Heating Mat System. Please read this manual thoroughly before installation and retain it for future reference.

2. Important Safety Instructions

WARNING: Risk of Electric Shock. Installation must be performed by a qualified electrician in accordance with local electrical codes.

- Always disconnect power at the main circuit breaker before installing or servicing the heating system.
- Do not cut the heating cable. Only the cold lead can be cut to length.
- Ensure the heating mat is fully embedded in thin-set mortar or self-leveling compound.
- Do not install the heating mat under permanent fixtures such as cabinets, bathtubs, or toilets. Maintain specified clearances from walls and fixtures.
- The system must be connected to a Ground Fault Circuit Interrupter (GFCI) protected circuit.
- Use the provided installation monitor to check the heating cable's integrity before, during, and after installation.
- Keep the thermostat away from direct sunlight, drafts, and other heat sources that could affect temperature readings.

3. Product Components

The VEVOR SHHC-1200 system includes the following main components:

- Heating Mat with Cable
- Smart Control Thermostat with GFCI
- Floor Sensor
- Installation Monitor
- Installation Guides

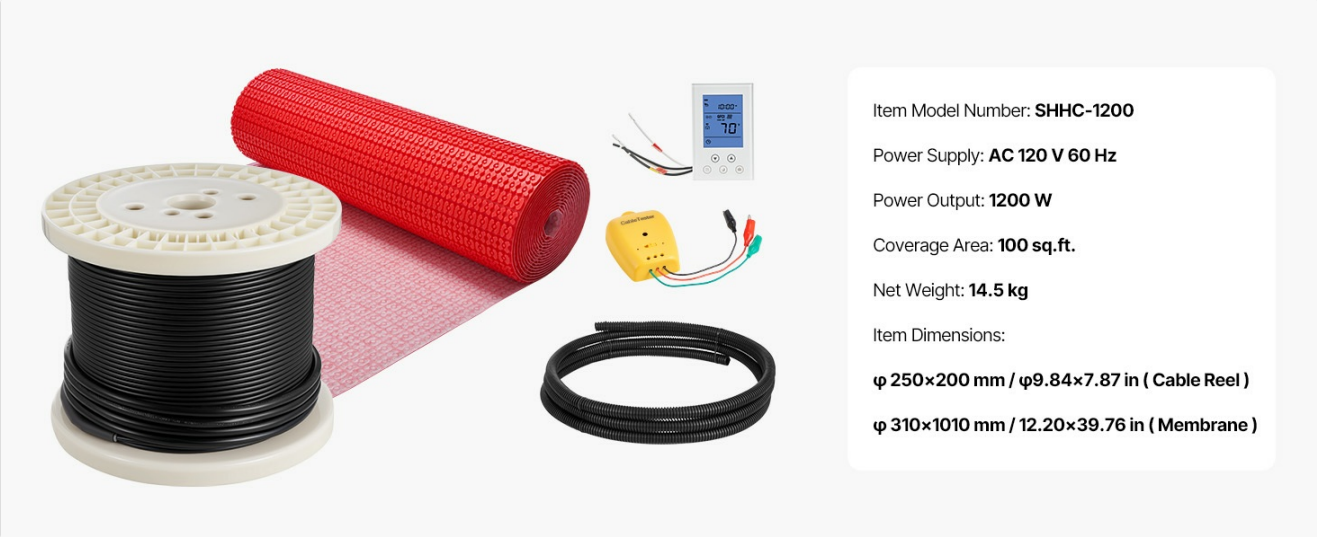

Image 3.1: Overview of the VEVOR SHHC-1200 floor heating system components, including the heating mat, thermostat, cable reel, and installation monitor.

3.1. Heating Cable Construction

The heating cable is designed for durability and efficient heat transfer.

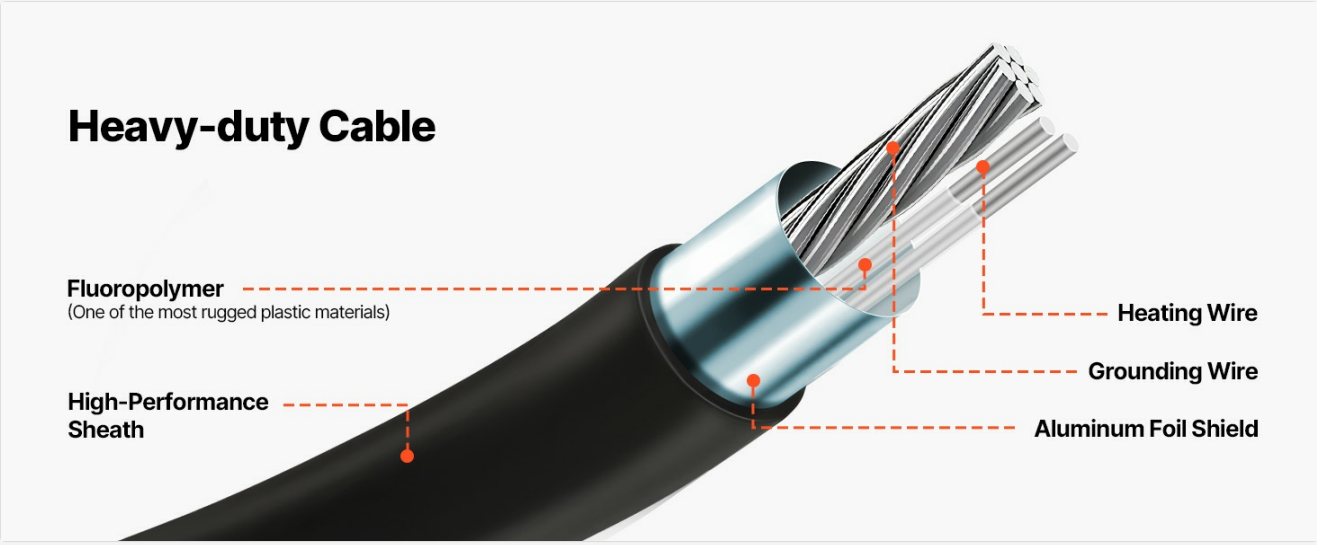

Image 3.2: Diagram illustrating the internal structure of the heavy-duty heating cable, showing the fluoropolymer insulation, aluminum foil shield, grounding wire, and heating wire.

4. Installation Guide

4.1. Planning and Layout

Careful planning is essential for optimal performance and safety. Ensure the heating mat covers the desired area while adhering to clearance requirements.

Image 4.1: Diagram showing recommended placement guidelines for the heating mat, including minimum distances from walls (4 inches) and toilet drains (6 inches), and avoiding installation under permanent fixtures. It also indicates approval for wet areas.

- Measure the area to be heated. Round up the floor area to the next mat size if necessary.
- Maintain a minimum of 4 inches (10 cm) from walls and permanent fixtures.
- Maintain a minimum of 6 inches (15 cm) from toilet drains.
- Do not install under permanent fixtures like cabinets, bathtubs, or toilets.
- The heating mat is suitable for various floor types, including tile, natural stone, laminate, and wooden floors.

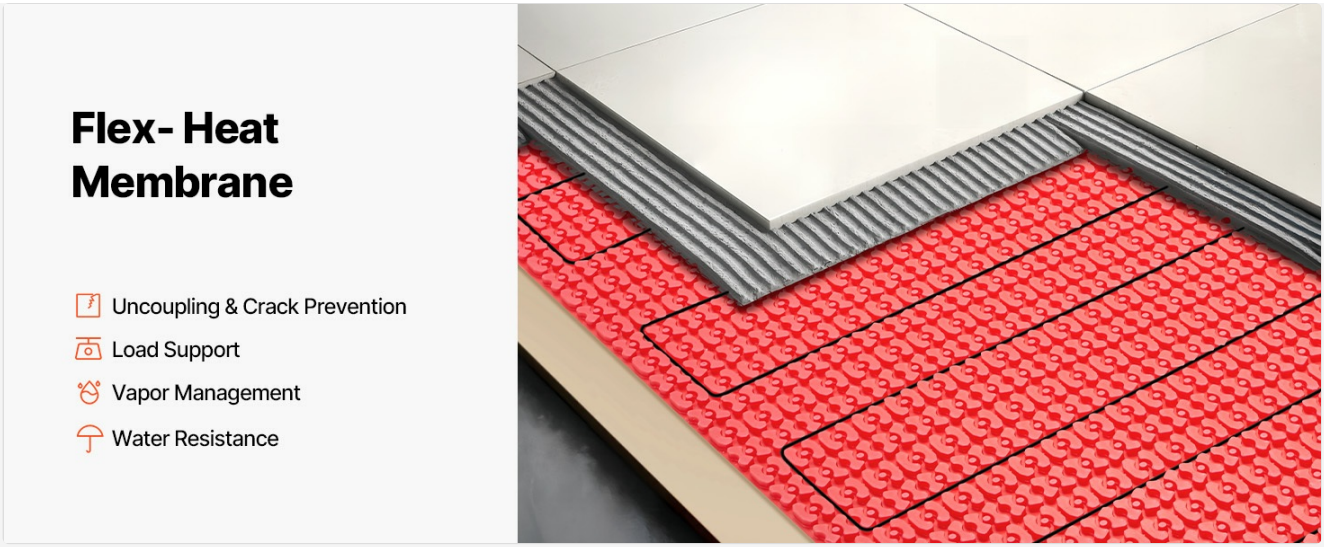

Image 4.2: Cross-section diagram illustrating the layers of a floor heating system, showing the subfloor, optional insulation, Flex-Heat Membrane, heating cable, flexible adhesive, and floor covering.

4.2. Step-by-Step Installation

1. **Prepare the Subfloor:** Ensure the subfloor is clean, dry, and level. Install optional insulation if desired for improved efficiency.
2. **Lay Out Decoupling Membrane:** Unroll the decoupling membrane (red mat) and cut it to fit your space.
3. **Apply Thin-set:** Apply a layer of thin-set mortar to the subfloor and fix the membrane securely.
4. **Test Heating Cable (Pre-Layout):** Before laying the cable, connect the heating cable to the installation monitor. Ensure it functions correctly and there are no faults.

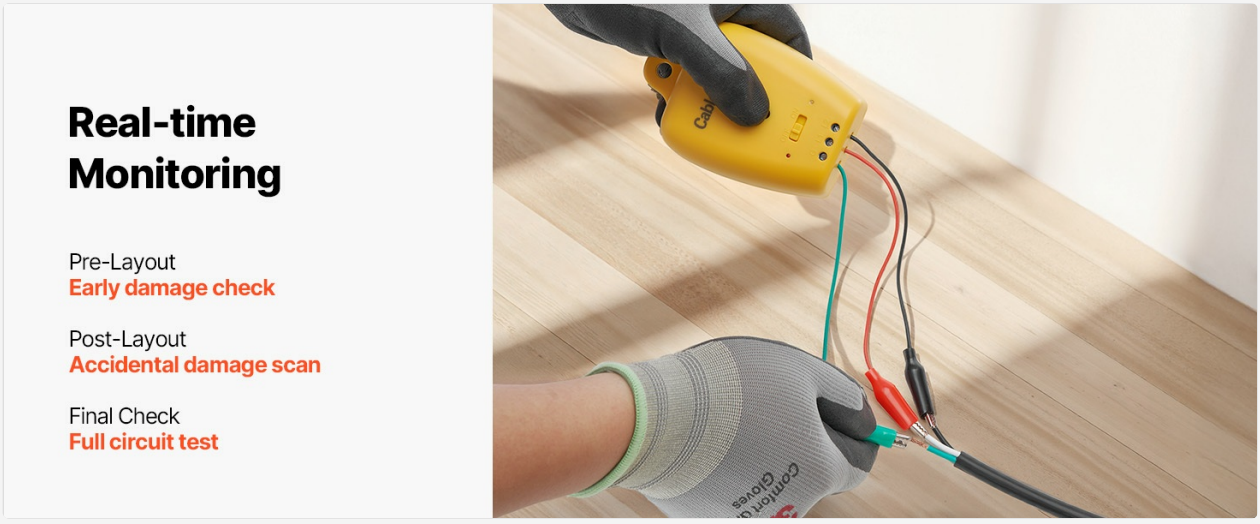

Image 4.3: The installation monitor connected to the heating cable for a pre-layout damage check, ensuring the cable is intact before installation.

5. **Lay Heating Cable:** Lay the heating cable into the channels of the decoupling membrane, maintaining the specified spacing (e.g., 3-stud spacing). Place the floor sensor into a dedicated cable channel, ensuring it is centered between two heating cables.
6. **Re-test Heating Cable (Post-Layout):** After laying the cable and before covering, re-test the heating cable with the installation monitor to check for any accidental damage during placement.
7. **Apply Underlayment and Floor Covering:** Apply thin-set mortar or self-leveling compound over the cables, fully embedding them. Then install your chosen floor covering (tile, stone, etc.).
8. **Final Circuit Test:** After the floor covering is installed and cured, perform a final circuit test with the installation monitor.

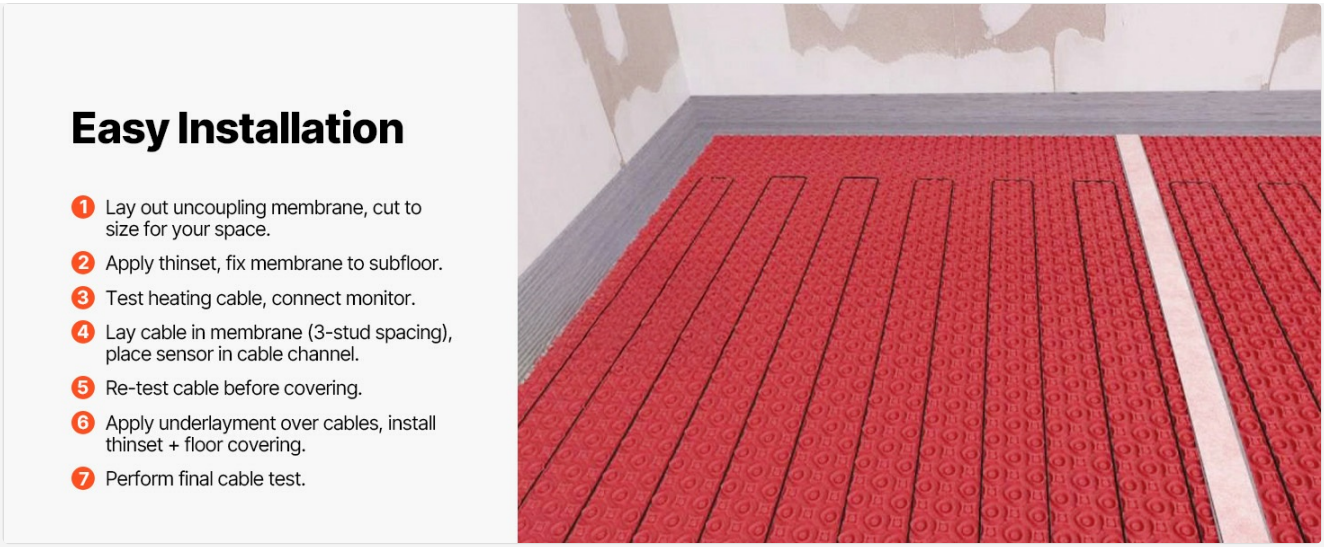

Image 4.4: Visual representation of the seven easy installation steps, from laying out the membrane to the final cable test.

5. Operating Instructions (Smart Thermostat)

The smart thermostat provides precise control over your floor heating system. It features a 15A programmable thermostat with GFCI protection.

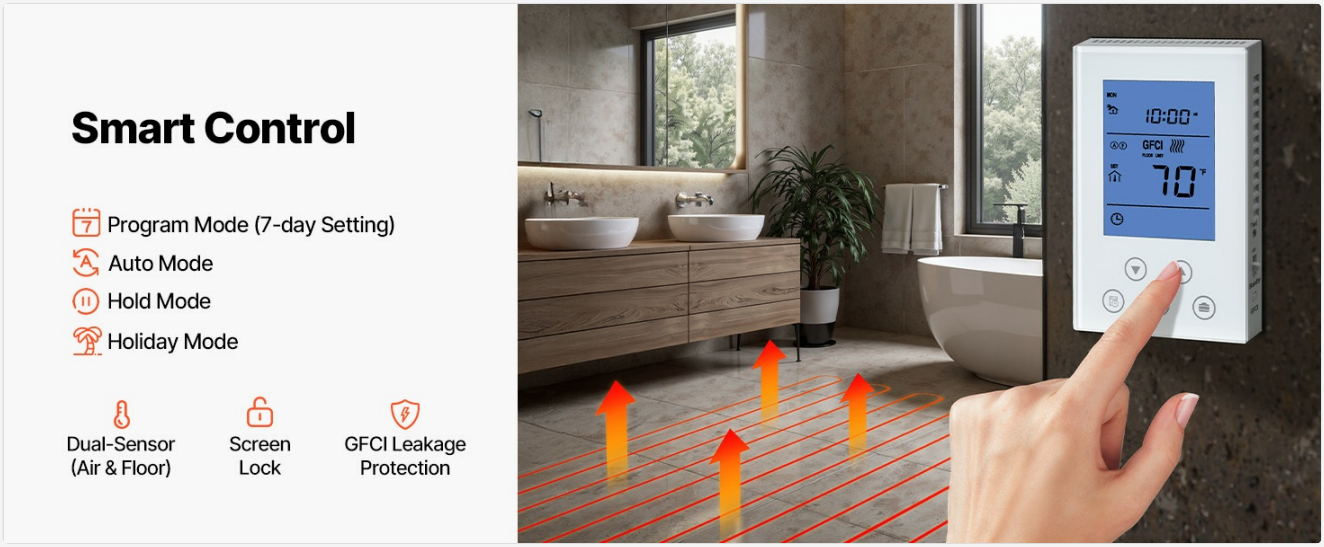

Image 5.1: The smart thermostat displaying its interface and key features, including Program Mode (7-day setting), Auto Mode, Hold Mode, Holiday Mode, Dual-Sensor (Air & Floor), Screen Lock, and GFCI Leakage Protection.

- **Temperature Range:** 41°F–98.6°F (5°C–37°C).
- **Programmable Schedule:** Set a 7-day schedule with up to 4 events per day for energy efficiency.
- **Dual-Sensor Monitoring:** Monitors both air and floor temperatures for accurate control.
- **Screen Lock:** Prevents accidental changes to settings.
- **GFCI Protection:** Integrated Ground Fault Circuit Interrupter for enhanced safety.
- **Modes:** Program Mode, Auto Mode, Hold Mode, Holiday Mode. Refer to the thermostat's dedicated manual for detailed programming instructions.

6. Maintenance

The VEVOR floor heating system requires minimal maintenance once installed correctly.

- **Cleaning:** Clean the thermostat screen and housing with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **System Checks:** Periodically check the GFCI function on the thermostat by pressing the "TEST" button. The GFCI should trip, cutting power to the heating system. Press "RESET" to restore power. If it does not trip, consult a qualified electrician.
- **No User Serviceable Parts:** The heating mat and cables contain no user-serviceable parts. Do not attempt to repair damaged cables.

7. Troubleshooting

If you encounter issues with your VEVOR floor heating system, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
System not heating	No power to thermostat; GFCI tripped; Thermostat set to low temperature or off mode; Faulty heating cable.	Check circuit breaker; Reset GFCI; Adjust thermostat settings; Use installation monitor for cable fault detection. If a fault is detected, consult a qualified electrician.
Floor is not warm enough	Thermostat set too low; Insufficient insulation under mat; Air sensor reading incorrectly; Floor sensor not properly placed.	Increase thermostat setpoint; Ensure proper insulation was installed; Check thermostat placement for drafts; Verify floor sensor placement (centered between cables).
GFCI trips frequently	Moisture in the system; Damaged heating cable; Electrical fault.	Immediately disconnect power. This indicates a serious electrical issue. Contact a qualified electrician for diagnosis and repair. Do not attempt to reset repeatedly.
Thermostat display is blank	No power to thermostat; Thermostat malfunction.	Check circuit breaker; Ensure wiring connections are secure. If power is present and display remains blank, the thermostat may need replacement.

8. Specifications

Feature	Detail
Model Number	SHHC-1200
Power Supply	AC 120 V 60 Hz
Power Output	1200 W
Coverage Area	100 sq.ft.
Item Weight	34.7 pounds (15.7 kg)
Product Dimensions (Cable Reel)	φ 250x200 mm / 9.84x7.87 inches
Product Dimensions (Membrane)	φ 310x1010 mm / 12.20x39.76 inches
Thermostat Temperature Range	41°F–98.6°F (5°C–37°C)

Item Model Number: **SHHC-1200**

Power Supply: **AC 120 V 60 Hz**

Power Output: **1200 W**

Coverage Area: **100 sq.ft.**

Net Weight: **14.5 kg**

Item Dimensions:

φ 250×200 mm / φ9.84×7.87 in (Cable Reel)

φ 310×1010 mm / 12.20×39.76 in (Membrane)

Image 8.1: Visual summary of the product components and key specifications for the VEVOR SHHC-1200 system.

9. Warranty and Support

For warranty information or technical support, please contact VEVOR customer service. Refer to your purchase documentation for specific warranty terms and contact details.
You can also visit the official VEVOR store for more information:VEVOR Official Store

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