



Manuals.plus /

› Nuheat /

› NuHeat F1509 Floor Warming Mat User Manual

Nuheat F1509

NuHeat F1509 Floor Warming Mat User Manual

Model: F1509

1. INTRODUCTION

The NuHeat F1509 Floor Warming Mat is designed to provide consistent and comfortable radiant heat for your floors. This manual provides essential information for the safe and effective installation, operation, and maintenance of your NuHeat floor warming system. Please read this manual thoroughly before beginning installation or operation.

2. SAFETY INFORMATION

WARNING: Improper installation or use can result in electric shock, fire, or personal injury. All electrical work must be performed by a qualified electrician in accordance with local and national electrical codes.

- Always disconnect power at the circuit breaker before installing or servicing the mat.
- Do not cut or shorten the heating wire.
- Ensure the mat is fully encapsulated in thin-set mortar or self-leveling cement.
- Do not install the mat under permanent fixtures such as cabinets, bathtubs, or toilets.
- Test the mat's resistance before, during, and after installation as per instructions.
- Keep the mat dry during installation.

3. PRODUCT OVERVIEW

The NuHeat F1509 Floor Warming Mat is a pre-assembled heating mat system. It features a durable heating wire embedded within a fiberglass mesh, ensuring uniform heat distribution. The mat is only 1/8 inch thick, minimizing floor height buildup.



Figure 1: NuHeat F1509 Floor Warming Mat rolls and associated wiring. This image displays several rolls of the NuHeat F1509 Floor Warming Mat, along with the associated electrical wiring. The mats are designed to be thin and easily installed under flooring to provide consistent heat.

The system includes the heating mat and a cold lead wire for connection to a thermostat (sold separately). The pre-configured design eliminates the need for complex wire spacing calculations during installation.

4. SETUP AND INSTALLATION

Proper planning and preparation are crucial for a successful installation. Consult the detailed installation guide provided with your product for comprehensive instructions.

4.1 Pre-Installation Checklist

- Verify the subfloor is clean, dry, and structurally sound.
- Ensure all necessary electrical connections and a dedicated circuit are available.
- Confirm the mat size matches the heated area.
- Have a multimeter ready for resistance testing.

4.2 Installation Steps (Summary)

1. **Plan Layout:** Lay out the mats to cover the desired heating area, avoiding permanent fixtures.
2. **Test Mat:** Perform an initial resistance test of the mat and cold lead. Record readings.
3. **Secure Mat:** Adhere the mat to the subfloor using hot glue or tape.
4. **Install Floor Sensor:** Place the floor sensor (from your thermostat kit) equidistant between two heating wires.
5. **Embed Mat:** Apply thin-set mortar or self-leveling cement over the mat, ensuring full encapsulation.
6. **Final Test:** Perform another resistance test after embedding the mat.
7. **Connect to Thermostat:** Once the mortar is cured, connect the cold lead and sensor wires to the thermostat according to the thermostat's instructions.

Note: Do not energize the mat until the thin-set or self-leveling cement has fully cured, typically 7-28 days depending on the product used.

5. OPERATING INSTRUCTIONS

The NuHeat F1509 Floor Warming Mat is controlled by a compatible thermostat (e.g., NuHeat SIGNATURE, NuHeat HOME, or third-party thermostats). Refer to your thermostat's user manual for specific operating instructions.

- **Power On:** Ensure the circuit breaker supplying power to the system is ON.
- **Set Temperature:** Use the thermostat to set your desired floor temperature.
- **Programming:** Many thermostats offer programmable schedules for energy efficiency.
- **Initial Warm-up:** It may take several hours for the floor to reach the desired temperature, especially during initial use or after a long period of being off.

6. MAINTENANCE

The NuHeat F1509 Floor Warming Mat is designed to be maintenance-free once properly installed. No routine maintenance is required for the mat itself.

- **Floor Covering Care:** Maintain your floor covering (tile, stone, etc.) according to the manufacturer's recommendations.
- **Thermostat Care:** Keep the thermostat clean and free from dust. Refer to the thermostat manual for its specific maintenance guidelines.
- **Avoid Damage:** Do not drill or nail into the floor where the heating mat is installed. Keep a record of the mat's layout for future reference.

7. TROUBLESHOOTING

If your NuHeat floor warming system is not operating as expected, consider the following common issues:

Problem	Possible Cause	Solution
Floor not heating	No power to thermostat Thermostat set too low or off Circuit breaker tripped Faulty mat or sensor	Check thermostat display and power connection. Adjust thermostat setting. Reset circuit breaker. Contact NuHeat technical support for diagnosis.
Floor too hot/cold	Incorrect thermostat setting Floor sensor issue	Adjust thermostat setting. Verify sensor connection and placement.
Thermostat displays error code	Refer to thermostat manual	Consult your specific thermostat's user manual for error code definitions and troubleshooting steps.

For issues not listed here, or if solutions do not resolve the problem, please contact NuHeat technical support.

8. SPECIFICATIONS

The NuHeat F1509 Floor Warming Mat is designed with the following general specifications:

- **Model:** F1509

- **Thickness:** Approximately 1/8 inch (3 mm)
- **Heating Element:** Embedded heating wire
- **Power Source:** Requires connection to a compatible thermostat and electrical supply (voltage depends on specific mat variant, typically 120V or 240V).
- **Coverage:** Varies by mat dimensions (e.g., 15 sq ft for the 15' model).
- **Manufacturer:** NuHeat
- **First Available:** December 19, 2016

Refer to the product packaging or NuHeat's official website for precise electrical specifications and dimensions for your specific mat size.

9. WARRANTY AND SUPPORT

NuHeat products are backed by a comprehensive warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official NuHeat website.

Technical Support

If you require technical assistance, have questions about installation, or need troubleshooting help, please contact NuHeat customer support:

- **Website:** www.nuheat.com (for FAQs, detailed manuals, and contact information)
- **Phone:** Refer to the NuHeat website for regional contact numbers.

Please have your product model number (F1509) and purchase date available when contacting support.