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**Nuheat F1809**

# Nuheat 120V Floor Heating Standard Mat (F1809) Instruction Manual

Model: F1809

## 1. Product Overview

The Nuheat 120V Floor Heating Standard Mat is designed to provide efficient and uniform radiant heat for various floor coverings. This pre-assembled mat simplifies the installation process for electric floor heating systems, eliminating the need for complex wire configuration. It is suitable for use under materials such as ceramic tile, stone tile, vinyl flooring, porcelain tile, cement tile, and granite tile.

Key features include:

- **Pre-assembled Design:** Eliminates the need to configure heating wires, reducing installation complexity and time.
- **Minimal Floor Height Increase:** At only 1/8 inch thick, it ensures smooth transitions without the need for transition strips.
- **Even Heat Distribution:** Pre-wired heating elements ensure uniform heat distribution and reduce the chance of cold spots.
- **Reduced Installation Time:** Significantly faster to install compared to traditional cable and mesh systems.
- **Versatile Compatibility:** Compatible with most standard base materials and various floor covering types.



*Image 1.1: Example of a heated floor in a bathroom setting, demonstrating the comfort provided by the Nuheat mat.*

## 2. Safety Information

Please read all instructions carefully before installation and operation. Failure to follow these instructions may result in electric shock, fire, or property damage. Keep this manual for future reference.

- **Electrical Safety:** Installation must be performed by a qualified electrician in accordance with local electrical codes. Ensure power is disconnected at the main circuit breaker before any installation or maintenance.
- **Grounding:** The heating mat must be properly grounded.
- **Damage Prevention:** Do not cut, puncture, or damage the heating mat or its wires during installation or subsequent flooring work. Avoid placing heavy, sharp objects directly on the mat.
- **Moisture:** Do not install in areas prone to standing water unless specifically rated for such conditions and installed according to manufacturer guidelines for wet areas.
- **Thermostat:** Always connect the heating mat to a compatible thermostat with a Ground Fault Circuit Interrupter (GFCI) for safety.

## 3. Components

The Nuheat Standard Mat consists of a durable mat material with integrated heating wires and a cold lead for electrical connection. The mat is designed for direct adhesion to the subfloor.



*Image 3.1: Detailed view of the Nuheat mat, highlighting the heating elements and electrical connection.*




*Image 3.2: Surface detail of the Nuheat mat, displaying the integrated brand marking.*

## 4. Setup and Installation

The Nuheat Standard Mat is designed for straightforward installation. Always consult the full installation guide provided with your product for detailed instructions and local building codes.

### 4.1 Pre-Installation Steps

1. **Plan Layout:** Determine the exact area to be heated and plan the mat layout to avoid obstacles and ensure proper coverage.
2. **Subfloor Preparation:** Ensure the subfloor is clean, dry, level, and structurally sound. Repair any cracks or imperfections.
3. **Electrical Connection:** A dedicated electrical circuit and a compatible thermostat with GFCI protection are required. Consult a qualified electrician for wiring.
4. **Test Mat:** Before permanent installation, perform an electrical resistance test on the mat to ensure it is functioning correctly and has not been damaged during handling.

### 4.2 Mat Installation

1. **Apply Thin-set:** Apply a layer of thin-set mortar adhesive to the prepared subfloor using a notched trowel.
2. **Lay Mat:** Carefully unroll and press the Nuheat mat into the wet thin-set, ensuring full contact and no air pockets. Follow your planned layout.
3. **Route Cold Lead:** Route the cold lead (non-heating wire) to the thermostat location, ensuring it is protected and properly embedded.
4. **Embed Mat:** Once the mat is laid, apply another layer of thin-set mortar over the mat, fully embedding the heating elements. This layer will also serve as the base for your final flooring material.
5. **Final Test:** After embedding the mat, perform another electrical resistance test to confirm no damage occurred

during this stage.



*Image 4.1: Installation of the Nuheat mat onto a prepared subfloor.*

## 5. Operation

The Nuheat Floor Heating Mat operates in conjunction with a compatible floor heating thermostat. The thermostat controls the on/off cycles and temperature settings of the heating system.

1. **Thermostat Connection:** Ensure the mat's cold lead is correctly wired to the thermostat by a qualified electrician.
2. **Power On:** Once installation is complete and verified, restore power to the circuit at the main breaker.
3. **Set Temperature:** Use the thermostat controls to set your desired floor temperature. Refer to your specific thermostat's manual for detailed programming and operation instructions.
4. **GFCI Protection:** The thermostat's integrated GFCI will monitor for ground faults. If a fault is detected, the power to the mat will be interrupted for safety. Reset the GFCI if it trips.

## 6. Maintenance

The Nuheat Floor Heating Mat is designed to be maintenance-free once installed. However, general care of your heated floor is recommended.

- **Floor Care:** Maintain your floor covering according to its manufacturer's recommendations. Avoid using harsh chemicals or abrasive cleaners that could damage the flooring material.
- **Avoid Punctures:** Be cautious when moving furniture or heavy objects to prevent damage to the floor covering and the underlying heating mat. Do not drill or nail into the heated floor.
- **Electrical Checks:** Periodically check the thermostat's GFCI function by pressing the 'Test' button (if available) to ensure it is operating correctly.

## 7. Troubleshooting

If your Nuheat floor heating system is not functioning as expected, consider the following common issues and solutions:

| Problem | Possible Cause | Solution |
|---|---|---|
| Floor not heating | No power to thermostat; Thermostat set too low; GFCI tripped; Mat damage | Check circuit breaker; Adjust thermostat setting; Reset GFCI; Contact a qualified electrician for inspection. |
| Uneven heating | Air pockets under mat; Improper mat installation; Damaged heating element | Ensure mat was fully embedded during installation; Contact a qualified electrician for diagnosis. |
| GFCI trips frequently | Ground fault in mat or wiring; Moisture intrusion | Immediately disconnect power. Contact a qualified electrician to identify and repair the fault. |

For issues not resolved by these steps, or for any electrical concerns, always contact a qualified electrician or Nuheat customer support.

## 8. Specifications

The following specifications apply to the Nuheat 120V Floor Heating Standard Mat (F1809):

- **Manufacturer:** NUHEAT
- **Voltage:** 120V
- **Power Output:** 12 Watts per Sq Ft
- **Mat Thickness:** 1/8 inch
- **Item Weight:** 1.8 pounds (for F1809 36" x 72" model)
- **Package Dimensions:** 45 x 5 x 5 inches (approximate)
- **ASIN:** B076H8T3WT
- **Certification:** 14, 2, DEFAULT (as per product data)
- **Date First Available:** October 16, 2017

## 9. Warranty and Support

For specific warranty information regarding your Nuheat Floor Heating Standard Mat, please refer to the documentation included with your product or visit the official Nuheat website. For technical support, installation assistance, or troubleshooting beyond this manual, please contact Nuheat customer service directly.

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