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› [Nuheat F1506 Under Floor Heating Mat 120v. 60" X 24" Heats 10 Sq Feet Using Only 120 Watts of Power](#)

Nuheat F1506

Nuheat F1506 Under Floor Heating Mat User Manual

Model: F1506 | Brand: Nuheat

INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Nuheat F1506 Under Floor Heating Mat. Please read this manual thoroughly before beginning installation or use.

The Nuheat F1506 is an electric radiant floor heating mat designed to provide soothing heat to tile or stone floors. It features an ultra-thin, fleece blanket-like design for easy integration into your flooring system.

SAFETY INFORMATION

WARNING: Failure to follow these safety instructions could result in electric shock, fire, property damage, or personal injury.

- Installation must be performed by a qualified electrician in accordance with all local and national electrical codes.
- Do not cut or modify the heating cable. Only the mat mesh can be cut.
- Ensure the mat is not overlapped or installed over itself.
- Do not install the mat under permanent fixtures such as cabinets, bathtubs, or toilets.
- Always test the heating mat with a multimeter before, during, and after installation to ensure proper resistance.
- Connect the heating mat only to a Ground Fault Circuit Interrupter (GFCI) protected circuit.
- Keep the mat and connections dry during installation.

PRODUCT OVERVIEW

The Nuheat F1506 heating mat is a pre-assembled mat with heating cable uniformly spaced and attached to a fiberglass mesh. It is designed for quick and easy installation under various floor coverings.



Image: Several Nuheat F1506 heating mats rolled up, showing their compact form and the attached wiring. These mats are designed for easy unrolling and installation under flooring.

Key Features:

- **Dimensions:** 60 inches x 24 inches (10 square feet)
- **Power Output:** 120 Watts
- **Voltage:** 120 Volts
- **Current:** 1.1 Amps
- **Resistance:** 101 Ohms
- **Design:** Ultra-thin fleece blanket-like, 1/8" in height
- **Efficiency:** Energy efficient (12 Watts per square foot)
- **Compatibility:** Compatible with most dual-voltage floor heating thermostats.

SETUP AND INSTALLATION

Proper installation is critical for the performance and longevity of your Nuheat heating mat. It is highly recommended that installation be performed by a certified professional.

Pre-Installation Steps:

1. **Plan Layout:** Determine the exact area to be heated. Avoid areas under permanent fixtures. Sketch a detailed layout plan.
2. **Subfloor Preparation:** Ensure the subfloor is clean, dry, level, and structurally sound.
3. **Electrical Requirements:** Verify that a dedicated 120V, GFCI-protected circuit is available and properly sized for the total wattage of the heating mat(s).
4. **Resistance Test:** Before unrolling, test the mat's resistance using a multimeter. Record the reading and compare it to the specified 101 Ohms ($\pm 10\%$).

Installation Procedure:

1. **Unroll Mat:** Carefully unroll the Nuheat mat according to your layout plan. The mat can be cut and turned to fit irregular shapes, but *never cut the heating cable itself*.
2. **Secure Mat:** Adhere the mat to the subfloor using appropriate adhesive or thin-set mortar, ensuring it lies flat without wrinkles or overlaps.
3. **Sensor Placement:** Install the floor sensor (from your thermostat kit) equidistant between two heating cables, ensuring it is fully embedded in the thin-set.
4. **Electrical Connection:** Route the cold lead wires from the mat to the thermostat junction box. Connect the wires to the thermostat as per the thermostat's instructions and local electrical codes.
5. **Post-Installation Test:** After the mat is secured and before applying the final floor covering, perform another resistance test and a continuity test to ensure no damage occurred during installation.
6. **Apply Floor Covering:** Once all tests are successful, apply your tile or stone flooring over the mat using a suitable thin-set mortar. Ensure full coverage around the heating cables.

OPERATING INSTRUCTIONS

The Nuheat F1506 heating mat is controlled by an external thermostat (sold separately). Refer to your thermostat's user manual for specific operating instructions.

General Operation:

- Ensure the thermostat is properly wired and powered.
- Set your desired floor temperature using the thermostat controls.
- Allow sufficient time for the floor to reach the set temperature, as radiant heating warms the mass of the floor.
- For optimal energy efficiency, utilize the thermostat's programming features to set heating schedules.

MAINTENANCE

The Nuheat F1506 Under Floor Heating Mat is designed to be a maintenance-free system once properly installed.

- No routine maintenance is required for the heating mat itself.
- Ensure your thermostat is kept clean and free from dust.
- Avoid placing heavy, insulated objects directly on the heated floor for extended periods, as this can lead to heat buildup and potential damage to the heating system or flooring.

TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No heat from floor	Thermostat off or set too low; GFCI tripped; wiring issue; damaged mat.	Check thermostat settings. Reset GFCI. Consult a qualified electrician to inspect wiring and mat resistance.
Floor not heating evenly	Improper mat installation; air pockets in thin-set; external heat source.	Ensure mat was fully embedded. Avoid placing large rugs or furniture that block heat.
Thermostat displaying error code	Sensor issue; wiring fault.	Refer to your thermostat's manual for error code definitions and troubleshooting steps.

For issues not resolved by these steps, contact Nuheat customer support or a qualified electrician.

SPECIFICATIONS

Attribute	Value
Model Number	F1506
Dimensions	60" x 24" (10 sq ft)
Voltage	120 Volts
Wattage	120 Watts (12 Watts per sq ft)
Amperage	1.1 Amps
Resistance	101 Ohms
Mat Thickness	1/8"
Power Source	AC
Item Weight	2.05 pounds
Manufacturer	Nuheat Industries

WARRANTY AND SUPPORT

Nuheat products are backed by a comprehensive warranty. Please refer to the official Nuheat website or your product's packaging for specific warranty terms and conditions.

For technical support, installation assistance, or warranty claims, please contact Nuheat customer service directly. Contact information can typically be found on the manufacturer's website or product documentation.

Online Resources: For additional information, FAQs, and installation videos, visit the official Nuheat website.

