



## WARNINGS

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Warning: Check contents of all boxes immediately upon receipt of your Heatizon shipment and notify Heatizon within 24 hours of any discrepancy or missing part.

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Warning: Read this installation manual in its entirety before attempting to install Heatizon Systems Tuff Cable and Z Mesh Products.

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Warning: Installation of Heatizon Systems products and associated work must be performed by qualified persons and conform to local building codes, ordinances, trade practices, and in accordance with all applicable sections of the National Electric Code (NEC).

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Warning: Risk of fire! Risk of fire possible if installation of system is not completed according to all of the installation instructions contained within this Installation Manual, including but not limited to the warnings and notes throughout. Risk of fire possible if metal or any other conductive material is allowed to come into contact with the Tuff Cable or Z Mesh Heating Element. Risk of fire possible if connections/joints between Cold Leads and Tuff Cable, Colds Leads and Z Mesh, Tuff Cable and Tuff Cable, and or Z Mesh and Z Mesh are not crimped and/or soldered correctly. Risk of fire possible if loose strands of Z Mesh or Tuff Cable Heating Element or cuts or other damage to Z Mesh or Tuff Cable are not repaired correctly. Note: The safety features incorporated into Heatizon Systems products cannot detect cuts in Z Mesh or Tuff Cable element.

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Warning: Risk of shock! Make sure all power to your Heatizon Systems product and thermostat is shut off at the electric distribution panel before installing, removing covers, servicing, or working on any of the components of any Heatizon System product.

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Warning: All connections/joints between colds leads and Tuff Cable heating element must be embedded into mortar, asphalt, or other acceptable heat sink.

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Warning: Knockout openings shall not be used except with devices that are designed to fill such openings.

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Warning: Obtain written approval from Heatizon Systems for applications and installations that are different from those described herein.

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Warning: In order for your Heatizon Systems product to operate correctly, the transformer portion of the Control Box must be installed so that it can dissipate the heat that it generates

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Warning: Like all electric products, Heatizon Systems products create a magnetic field that may interfere with certain brands of televisions, computer monitors, etc. Contact Heatizon Systems prior to installing any of its products if magnetic field interference is a concern for you.

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Warning: Never install Heatizon Systems products in space heating or floor warming applications to deliver more than 15 watts per square foot (or 160 watts/m<sup>2</sup>).

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Please call Heatizon Systems Technical Support Department at (801) 293-1232 with any questions you have regarding these Installation Instructions and The Customer Information Sheet, or the installation, operation, and maintenance of Heatizon Systems products.

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## Installation Instructions

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**This installation manual is designed to assist in the installation of:**

- Tuff Cable heating element
- Z Mesh heating element

**for use with the**

- SLC500 Control Box Series

**A complete Heatizon System installation typically incorporates four main steps which are described in this manual:**

- Step 1. Rough-in**
  - Step 2. Heating Element Lay-out and Installation**
  - Step 3. Control Box and Transformer**
  - Step 4. Activation Device**
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