

## Description

The SLC500 Control Unit houses the appropriate sized step-down Transformer and the other electronic components necessary to provide low-voltage electricity to the heating element. The SLC500 continually monitors the system's operation, and is self-testing and problem diagnosing. It is engineered to provide simple and problem free operation

Is used with the following transformers: S050, S025 and S101

System operates on 120 volts

Dimensions: 12.25" wide, 12.25" tall, 6" deep

The SLC500 Control Unit Kit includes the  
Control Unit  
PC Board  
Sheet Metal Enclosure  
50" Thermostat Wire  
25' #2 Cold Lead  
Hardware Kit

## Uses

One SLC500 can energize one area, or can energize multiple areas that have been "jumpered" (connected in series) together on the same system.



## Features

- Soft Start circuits that turn the Transformer on without a high in-rush current or power surge.
- Safety circuits that monitor for shorting and arcing, transformer over temperature, over current and under current, and power problems.
- Thermostat Wire and Cold Lead included for a simplified rough-in process.
- May be used to energize either Tuff Cable or ZMesh heating elements.
- May be used for radiant snow melting, radiant roof deicing, radiant floor warming or radiant in-floor space heating.
- A status LED that indicates when the system is energized and working, off, or in need of attention.



## Description:

The SLC500 Control Unit houses the appropriate sized step-down Transformer and the other electronic components necessary to provide low-voltage electricity to the heating element.

Used with Tuff Cable or ZMesh for snow melting, roof deicing, and floor heating applications.

The SLC500 continually monitors the system's operation, and is self-

testing and problem diagnosing. It is engineered to provide simple and problem free operation.

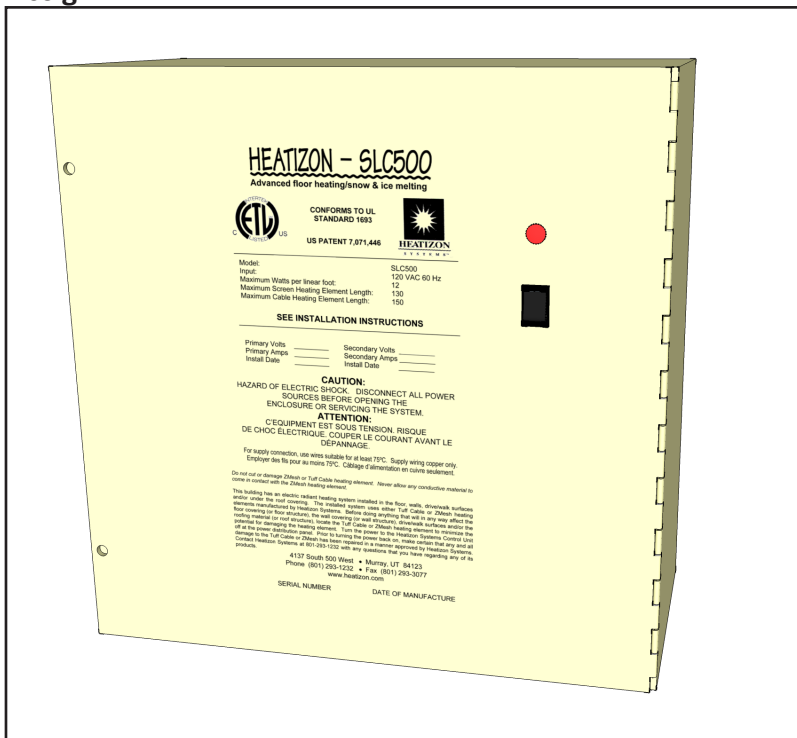
One SLC500 can energize one area, or can energize multiple areas that have been "jumpered" (connected in series) together on the same system.

The SLC500 includes Soft Start circuits that turn the transformer on without a high inrush current or power surge. Additionally, it uses safety

circuits to monitor for shorting and arcing, transformer over temperature, over current and current, and power problems. This control unit utilizes a status LED to indicate when the system is energized and working, off, or in need of attention.

Thermostat wire and cold lead are included to simplify the rough-in process.

## Design:



## Features:

- Soft Start circuits that turn the Transformer on without a high inrush current or power surge.
- Safety circuits that monitor for shorting and arcing, transformer over temperature, over current and under current, and power problems.
- Thermostat Wire and Cold Lead included for a simplified rough-in process.
- May be used to energize either Tuff Cable or ZMesh heating elements.
- May be used for radiant snow melting, radiant roof de-icing, radiant floor warming or radiant infloor space heating.
- A status LED that indicates when the system is energized and working, off, or in need of attention.

## Includes

Control Unit	PC Board
Sheet Metal Enclosure	50" Thermostat Wire
25' #2 Cold Lead	Hardware Kit

## Related Documents

- SLC500 Install Manual (Partial)
- SLC500 Install Manual (Complete)
- Transformers

## Specifications:

Dimensions	12.25"w, 12.25"h, 6"d
Input Voltage	120V

Note: Refer to the NEC or CEC for specific requirements.



**COMFORT RADIANT HEATING, LLC**  
**"WARMING YOUR HEART AND SOLE"**  
 (888)448-0555 (518)373-5700  
 WWW.COMFORTRADIANT.COM