



**HEATIZON**  
S Y S T E M S™



*Advanced floor heating/  
Snow and ice melting systems*

# THE HEATIZON SYSTEM

## Enjoy Warm Floors & Snow-free Drives

With Heatizon Systems low voltage radiant heating products you truly experience one of the finer things in life. Imagine stepping onto the tile or marble in your bathroom or kitchen and feeling luxurious warmth caressing your feet. Envision snow being melted from your driveways and sidewalks as it falls, leaving them clear and safe, having done no more than flip a switch. The benefits and applications of Heatizon's products are almost endless.

## The Product

Using state of the art components and utilizing low voltage electricity, Heatizon Systems are the "cutting edge" of the future. The products are controlled and monitored by a solid state computer board that continuously evaluates the system for safety and efficiency. Heatizon uses two unique heating elements which provide the source of warmth for our products - one, a unique custom wire mesh which lays below the flooring, or roofing material and the other, a specially sheathed copper wire element embedded in the concrete, asphalt or sand bed under pavers.

## The Company

Heatizon's patented products have been warming floors and melting snow since 1979, with a commitment to providing the highest level of product performance and service. Heatizon continually strives to provide the most convenient, trouble free, efficient heating system available today.

## The Benefits

Heatizon's systems provide tremendous advantages to building owners, including:

**RELIABILITY** through advanced engineering. There are no moving parts to fail - no water-lines to break or crack, no boilers or pressure gauges, no pipes to drain, flush or break and nothing to perform routine maintenance on. The solid state circuitry allows for power failures or spikes, yet brings the system back on-line as quickly as possible.

**COMFORT** through in-floor radiant heat. In-floor radiant heat is superior to other forms of heating because it is uniform throughout the space. There are no "point-source" hot spots like baseboard and forced air systems. Radiant heat warms objects, not air. Since you are an object, you stay nice and warm.

**SAFETY** through the use of low-voltage electricity. Other electric resistance heating systems operate at 208/240 volts AC, whereas Heatizon systems operate at 8-30 volts AC. Water spilling or nails being driven into the element is not a safety concern. As long as the nail does not also touch something conductive.

## The System

Heatizon Systems low voltage in-floor heating, snow melting and roof de-icing products are comprised of three basic components:

- Heating Element
- Control Unit
- Activation Device

Heatizon's System's products have provided innovative methods for radiant heating, floor warming, snow melting and roof de-icing since 1979. Heatizon Systems are virtually maintenance free with a 25 year warranty and are designed for ease of installation.

## The Heating Element

### ZMESH

ZMesh, Heatizon's bronze mesh heating element is so advanced that it can be nailed or stapled through. (see installation manual and customer information sheet for complete details). ZMesh can be installed under roofing, carpeting, tile and hardwood flooring. Typical installations for ZMesh include total space heating, roof de-icing, and floor warming.



### TUFF CABLE

Heatizon's Tuff Cable heating element is a very durable, 10 gauge coated copper cable that is chemical and gasoline resistant. It is designed to be installed in asphalt, concrete, tile mortar bed, thin set or Heatizon's Heatsink Kit. Typical installations for Tuff Cable include total space heating, floor warming, snow melting, and roof de-icing.



## *The Control Unit*

Heatizon's Control Box is the "brains" of the system. This solid-state component with a step-down transformer provides low-voltage electricity to the heating element and continually monitors the system's operation. The Control Box is self-testing, problem diagnosing, and engineered to provide simple and problem-free operation. One Control Box can energize one area or multiple areas on the same system. Dimensions for the Control Box are 17" wide, 12" high and 9" deep.



## *Activation Device*

Activation devices available for Heatizon's Control Box include a multiple of options for varied applications. All of Heatizon's activation devices include a system indicator light (LED) to notify owner of system status. Some of the activation devices currently available with the Heatizon Control Box include, but are not limited to, the following:

### **Snow Melting:**

- Aerial Mounted Temperature and Moisture Sensor (with individual zone control)
- Pavement Mounted Temperature and Moisture Sensor (with individual zone control)
- Remote Temperature Sensor
- 12 hour Mechanical Timer

### **Floor Warming and Radiant Heating**

- Programmable Thermostat
- Remote Temperature Sensor
- Standard Thermostat

### **Roof De-icing**

- Remote Temperature Sensor
- In-gutter Temperature Moisture Sensor

## *Floor Warming*

When floor warming is the objective, Heatizon products are used in conjunction with the primary heat source to provide warm inviting floors or supplemental heat. Small areas can be addressed very easily. Additionally, small areas that are not contiguous to one another can be warmed with one standard Control Unit simply by "jumping" between areas thus decreasing component costs. All that is required is additional cold lead and jumper kit.



## *RADIANT FLOOR HEATING*

Installed directly under most floor coverings, Heatizon's radiant floor heating products provide simplified installation procedures and minimal impact upon other trades. ZMesh can be nailed or stapled through and can be placed directly under hardwood, carpet tile flooring. (see installation manual and customer information sheet for details and limitations). Concrete is not required when using ZMesh, thereby reducing the structural costs, like floor load and additional framing requirements.



## *Snow Melting*

Heatizon's snow melting products are designed to be incorporated into small or large projects easily, cost effective and virtually maintenance-free. Heatizon's snow melting systems can address Class I, Class II, and Class III ASHRAE melting requirements. Tuff Cable's versatility allows it to be incorporated into new concrete and paver installations or to be retrofit into existing concrete or asphalt or in the grout between them. Allow our Heatizon consultants to help in the design of a system to your projects specific requirements.



## *ROOF DE-ICING*

Heatizon's roof de-icing products have revolutionized the eave and valley ice melting industry. By developing products that are installed under roofing materials. Heatizon products provide an aesthetically acceptable and long-term solution.

Applications for Heatizon's roof de-icing products include:

- Eave de-icing - reducing the potential of ice-daming for most roof types.
- Reducing build-up of ice around roof drains or valleys.

Heatizon Systems has products that are easily incorporated under asphalt/shake/tile shingles, single-ply membrane, built-up, or metal.



# THE HEATIZON SYSTEM *Makes Cents!*

Hydronic



Requires Gypsum or Concrete Slab

It is estimated that it costs \$4.50 or more per square foot to install a hydronics in-floor heating system than it does to install Heatizon's in-floor heating system.

Heatizon



Flooring goes on top of heating material

Hydronic



Boiler Room

The cost of floor space consumed by boilers, pumps, tanks and venting can range from \$5,000 to \$15,000 depending upon the cost per square foot.

Heatizon Systems Control Box hangs on the wall, requires no fresh air or exhaust venting, and requires only one fuel source.

Heatizon



Control Box

## Commercial and Residential Applications

Heatizon's advanced floor heating and snow and ice melting systems are the perfect solutions for:

- Wood, tile, & marble floors
- Basement heating
- Building entrances
- Pedestrian bridges
- Handicap ramps
- Elderly care facilities
- Parking ramps
- Loading docks
- Nursery floors
- Roof de-icing

*Please contact your local representative or call one of our trained professionals to find out how you can enjoy greater comfort and convenience with cost-effective radiant heat. Whether you're building, remodeling, or interested in how your home or business can be retrofitted with a system, we'll be happy to help.*



Top - Trax stations handicap ramps use Heatizon Tuff Cable for snow melt.

Right, LDS Convention Center uses Heatizon Tuff Cable for snow melt.



Hidden Springs Ranch & Resort uses in-floor Radiant Zmesh heating element to completely heat their 12,000 sq. ft. lodge.

LOCAL DISTRIBUTOR



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