FloorHeat



Warmzone FloorHeat STEP Low-voltage Radiant Floor Heating Systems

FloorHeat STEP heating is a technologically advanced low-voltage, self-regulating radiant heat system that utilizes an extremely low profile heating element that requires no floor buildup. The radiant heating system features a unique semi-conductive polyethylene heating element that can be used for a wide variety of interior and exterior applications to consistently distribute heat safely, evenly and efficiently.

The radiant heat system is idealy suited for heating hardwood and laminate flooring, but can be discreetly installed under just about any floor covering. The flexible polymer heating element is so thin that it will not affect your floor buildup, weight loads, or flooring choices. FloorHeat's unique attributes make it an effective radiant heat choice for new construction jobs as well as retrofit applications.

FloorHeat Features and Benefits



- **Easy to Customize** - The 9 and 12-inch wide heating element is thin, durable and flexible, and can be cut to length on the job site.
- **Comfortable, Even Heat** - The heating element can be placed closer to the surface than other radiant floor heating systems.
- **Self Regulating** - FloorHeat is self-regulating, so it draws only the energy required to maintain the ideal temperature.
- **Efficient** - The system is 100% efficient, meaning that all the electrical power is directly transferred to heat.
- **Versatile** - The low-voltage FloorHeat heating element can be installed under almost any flooring, including: hardwood, tile, carpet, laminates, vinyl, marble, and more. The system is also used for a variety of exterior applications, including roof deicing and driveway snow melting.
- **New Construction & Retrofit** - FloorHeat is unique in that it is ideal for both renovation/retrofit applications and new construction jobs.
- **No Buildup** - FloorHeat is so thin that no surface buildup is necessary.
- **Easy Installation** - The FloorHeat heating element can be stapled and nailed through, facilitating quick, easy installation.



FloorHeat STEP Floor Heating System Components

Heating Element

FloorHeat STEP can be installed under just about any type of floor surface. The heating element is thin, flexible and very durable. It can be nailed or stapled to the sub-floor, making installation quicker and easier than other in-floor heating systems. The heating element is self regulating, meaning that when the ambient temperature rises, the electrical resistance in the heating element increases and the consumption of electricity decreases. So, as the material gets warmer, less electricity passes through the heating element, ensuring that the element will not overheat, making this one of the most energy-efficient systems on the market.



Low-voltage Heating Element

Power Unit/Transformer

The power unit contains the brains of the system, along with the step down transformer, which converts the line voltage (220 V) to the low voltage (60 V or less). The advanced circuitry in the power unit regulates the system, assuring safe, accurate, and optimal performance.

FloorHeat operates on low-voltage and does not require a ground fault switch. It is normally connected to a 24 volt transformer, but can also be run by solar or wind-power sources. The radiant floor heating system is maintenance free, easily zoned and extremely energy efficient.



FloorHeat Transformer

Activation Device

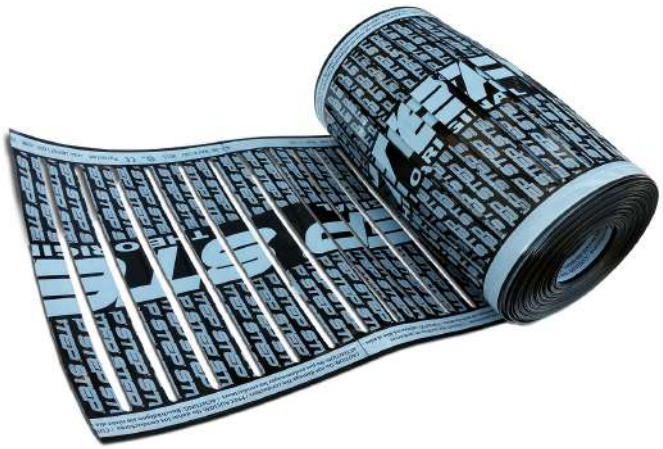
Our 100 percent automated floor heating thermostats save energy and allow you to have the radiant floor heating system turn on when desired. Thermostats are available (see pages 8-9) that feature a sensor in the floor to measure floor temperature or a sensor that senses the temperature of the room (air). The Warmzone electronic power controller features a relay output for infinitely variable setting of requested heating output, up to 10A.

The low-voltage FloorHeat STEP warming system allows you to reduce the usage of your primary heating system to facilitate greater energy savings while lowering your monthly heating bills.

Radiant floor heating systems also give you the freedom to design rooms the way you want without intrusion from ducts or vents.

To learn more, call Warmzone at 888.488.9276.





The FloorHeat STEP heating element is easy to install and features maintenance free operation.