RetroHeat® for Heating Existing Floors

RetroHeat in-floor film heating systems feature a paper-thin heating element that gives homeowners an affordable option to heat existing floors. The heating panels are stapled up between the floor joists and then batt insulation is installed over the heating element to direct all of the heat upward to warm the floor. This proven system can be used for heating existing carpet, tile, hardwood and laminate floors. To install RetroHeat radiant floor heating to warm your existing floors, you need to have open access to the floor joists from below. The heating element is easy to install and can be cut on site.

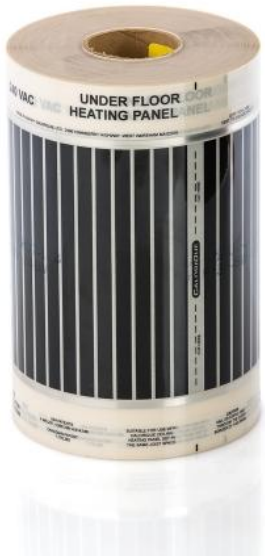
RetroHeat Features and Benefits



- **Low Cost** – Provides an affordable solution for heating existing floors.
- **Easy Installation** – The thin, lightweight, easy-to-install heating element is stapled up between the floor joists. No alarms or repair kits are needed. The heating element can be stapled and nailed through for easy installation.
- **Energy Efficient** – The system is easy to use and energy efficient. The electrical power is directly transferred to heat so there is virtually no wasted energy.
- **Versatile** – RetroHeat can be installed under almost any flooring, including: hardwood, tile, carpet, laminates, vinyl, and marble, etc.
- **No Remodeling** – Because it is installed under the floor joists, no floor buildup is necessary.
- **Safe and Reliable** – GFCI protected and UL certified.
- **Warranty** – Features a best-in-class warranty of 25-years.
- **Programmable Thermostat** – The system can be operated with smart controls. The touch screen programmable thermostat with floor sensor can be programmed for 7 days, with 4 settings per day. The Wi-Fi enabled smart thermostat allows you to program and/or set your thermostat from your smart phone.

Specifications

Voltage:	120 V, 240 V, 24 V
Length:	1 ft to 250 ft (RIB kits can be cut to length)
Width:	12″ on center, 16″ on center, 24″ on center
Thickness:	0.016-inch
Power:	10 watts per sq.ft.
Floor Types:	All floor types
Coverage	Can be cut to length to cover any area.



Joists

The RetroHeat System is designed for use with typical wood and/or metal floor joists. The joists must have a facing width no greater than 2-inches with a spacing between the joist strips of 12, 16, or 24-inches on center.

Floor Surface

The floor surface may be of any material having a total thermal insulation value of less than R-11 / RSI-2. This includes any floor finish such as tile, hardwood, or carpet, as well as secondary materials added to the floor at a later time. Contact the material manufacturer for specific information concerning the thermal insulation factor of the material being specified.

RetroHeat Specifications and Technical Information

General Specifications (For use with 12-inch on-center joist spacing)

For use for floor joists with 12-inch centers		
	120 Volts	**240 Volts**
Overall Width	13 (330.20 mm)	13 (330.20 mm)
Heated Width	8.75 (222.25 mm)	20.75 (527.05 mm)
Nominal Voltage	120 V	240 V
Maximum Length	60 feet	120 feet
Watts per Square Foot	11 Watts (118.39 per square meter)	11 Watts (118.39 per square meter)
Watts per Unit Length	8 Watts	8 Watts

General Specifications (For use with 16-inch on-center joist spacing)

For use for floor joists with 16-inch centers		
	120 Volts	**240 Volts**
Overall Width	17 (431.80 mm)	17 (431.80 mm)
Heated Width	12.75 (323.85 mm)	12.75 (323.85 mm)
Nominal Voltage	120 V	240 V
Maximum Length	48 feet	96 feet
Watts per Square Foot	9.44 Watts (101.56 per square meter)	9.44 Watts (101.56 per square meter)
Watts per Unit Length	10 Watts	10 Watts

General Specifications (For use with 24-inch on-center joist spacing)

For use for floor joists with 24-inch centers		
	120 Volts	**240 Volts**
Overall Width	25 (635.00 mm)	25 (635.00 mm)
Heated Width	20.75 (527.05 mm)	20.75 (527.05 mm)
Nominal Voltage	120 V	240 V
Maximum Length	28.24 feet	56.47 feet
Watts per Square Foot	9.36W (100.78 per square meter)	9.36W (100.78 per square meter)
Watts per Unit Length	17 Watts	17 Watts

RetroHeat Floor Heating Systems

System Controller (Touch Thermostat)



The RetroHeat radiant floor heating system is controlled by a technologically advanced, easy-to-use thermostat with a built-in GFCI and in-floor sensor. The programmable thermostat includes a clock function that allows you to set four events per day, including weekday and weekend settings. You can program the floor heating system to warm your floors in the morning just before you get up and then automatically shut off when you leave for work, allowing you to efficiently use the radiant heat system only when you need. The thermostat also allows you to temporarily change the temperature for a single event. Afterwards, the radiant heating system will return to the program schedule on the next scheduled event.

Thermostat Specifications

Functions:	3.5-inch color screen with easy interactive touch control, easy scheduling method
Supply Voltage:	120/240 V ±15%, 50/60 Hz
Maximum switching current:	15 Amp
Temperature control range:	41 to 104°F (5 to 40°C)
Ambient range:	32 to 104°F (0 to 40°C)
Floor temperature sensor:	Universal compatibility with existing floor heating sensors
Width	18, 24, 36, and 48 inches

For more information, call: 888.488.9276.

Email: info@warmzone.com • www.warmzone.com

WARRANTY INFORMATION

RetroHeat: 25-year limited warranty.

Thermostat: 2-year limited warranty.

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