

# FilmHeat

FLOOR HEATING SYSTEMS



FILMHEAT PRODUCT SHEET

**WARMZONE**   
PREMIER RADIANT HEATING

# FilmHeat

Radiant Floor Heating Systems

GENERAL PRODUCT INFORMATION

## FilmHeat Thin Floor Heating Element

FilmHeat in-floor film heating systems feature a paper-thin heating element that can be cut on site and requires no floor buildup. This floor heating system is easy to install and provides moderate, regulated warmth that is well suited for laminate surfaces. The FilmHeat floor heating panels can also be used to retrofit existing floors with radiant heat. The panels are stapled up between the floor joists and insulation is then installed afterwards so all the heat is directed upward to heat the existing floor.

## FilmHeat is Ideal for Laminate Surfaces

The FilmHeat In-Floor Heating System is one of the best values for installing radiant heat under laminate flooring. It is extremely simple to install at the same time as laminate flooring is being laid out.

The FilmHeat In-Floor Heating System efficiently heats your floors and is easy to install. When installing the system, the heating panels are cut to their proper length, then installed under laminate flooring.

After installing FilmHeat, the electrical connections are made and the laminate floor is installed directly on the panels.

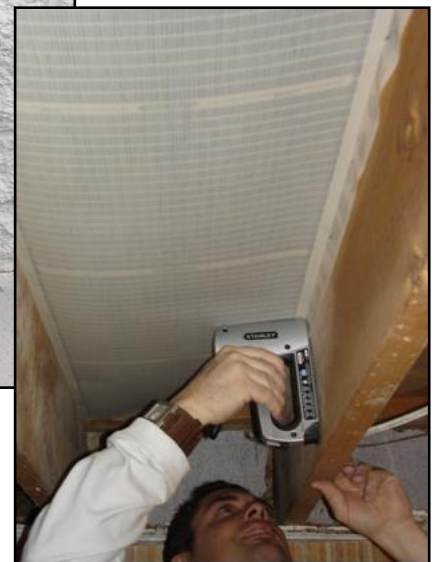
**NOTE:** A similar floor heating element –

RetroHeat – can be used to retrofit existing floors with radiant heat. If access to the joists is available, the thin heating element is simply stapled up between the floor joists and Batt insulation is then applied over the RetroHeat. (See photo to the right.)

The FilmHeat under floor heating system consists of heating panels, connection materials, and unique digital thermostat that includes a 15-amp GFCI breaker and floor sensor for accurate programming.

Another advantage of the Warmzone FilmHeat electric floor heating system is that the heating element features a fast response time so that it quickly and evenly heats your floors at the times when you need the warmth the most.

Energy efficient and easy to use, the Warmzone FilmHeat radiant floor heating system is the system of choice for retrofit applications or heating floors without requiring any floor buildup.



# FilmHeat

## Radiant Floor Heating Systems

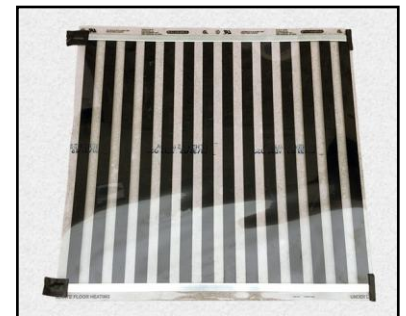
### System Controller (Touch Thermostat)

The FilmHeat 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



### FilmHeat Features and Benefits

**Low Cost** – The FilmHeat system is affordable to purchase and operate.

**No Floor Buildup** – The thin heating element is only 0.009-inches thick.

**Safe and Reliable** – The heating panels are UL, ETL, NEMKO and CE listed and EMC certified for safety.

**Easy Installation** – The FilmHeat system can be installed quickly and easily.

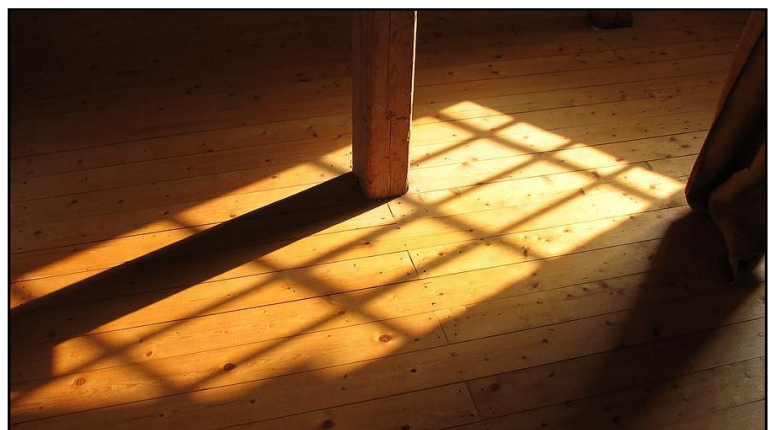
**Zoning** – Allows you efficiently heat only the rooms you want, when you want.

**Energy Efficient** – 99 percent of the energy is converted directly into heat.

**Maintenance Free** – The FilmHeat system contains no moving parts, so you don't have to worry about ongoing maintenance costs.

**Programmable Thermostat** – Gives you flexibility to set the primary heat setting as well as heating schedule.

**Warranty** – Features a 25-year warranty.



*For more information, call: 888.488.9276.*

## SPECIFICATION CHART

### 24-inch Elements (Heated width = 21.38 inches)

24-inch elements			120 V	240 V
Panels	Length	Power	Amps @120 volts	Amps @ 240 volts
1	1'-6"	22	0.18	0.09
2	2'-1.2"	44	0.37	0.18
3	3'-1.8"	66	0.55	0.28
4	4'-2.4"	88	0.73	0.37
5	5'-3"	110	0.92	0.46
6	6'-3.6"	132	1.10	0.55
7	7'-4.2"	154	1.28	0.64
8	8'-4.8"	176	1.47	0.73
9	9'-5.4"	198	1.65	0.83
10	10'-6"	220	1.83	0.92
11	11'-6.6"	242	2.02	1.01
12	12'-7.2"	264	2.20	1.10
13	13'-7.8"	286	2.38	1.19
14	14'-8.4"	308	2.57	1.28
15	15'-9"	330	2.75	1.38
16	16'-9.6"	352	2.93	1.47
17	17'-10.2"	374	3.12	1.56
18	18'-10.8"	396	3.30	1.65
19	19'-11.4"	418	3.48	1.74
20	21'-0"	440	3.67	1.83

\*Also available in widths of 36 and 48 inches. Call 888.488.9276 for more information.



## ORDERING INFORMATION

Line Voltage	Description	Voltage
FLR13P8W	13" wide heating element, for floor joists with 12" centers, 8W	120, 240
FLR17P10W	17" wide heating element, for floor joists with 16" centers, 10W	120, 240
FLR25P17W	25" wide heating element, for floor joists with 24" centers, 17W	120, 240
ULH24-22W	24" wide under floor heating panel, 22W	120, 240
ULH36-35W	36" wide under floor heating panel, 35W	120, 240
ULH48-47W	48" wide under floor heating panel, 47W	120, 240
ACC-25	Crimp connectors and plastic insulators (quantity 25)	
ACC-50	Crimp connectors and plastic insulators (quantity 50)	
ACC-50-120V	12-gauge, Type UF, connecting wire (White & Black) 50 feet	120
ACC-50-240V	12-gauge, Type UF, connecting wire (Red & Black) 50 feet	240
ACC-100-120V	12-gauge, Type UF, connecting wire (White & Black) 100 feet	120
ACC-100-240V	12-gauge, Type UF, connecting wire (Red & Black) 100 feet	240
LEADS-14-THHN-W	14-gauge, FilmHeat connecting wire (White), per foot price	120, 240
LEADS-14-THHN-B	14-gauge, FilmHeat connecting wire (Black), per foot price	120
LEADS-14-THHN-R	14-gauge, FilmHeat connecting wire (Red), per foot price	240
FRD-TAPE-1	Sealant tape to seal connections (1"x10')	
FCT-104A	Crimping tool	

## FilmHeat Heating Panels

The floor heating system is available for use with standard 120 or 240 volt line current.

**Watts per Square Foot:** 12

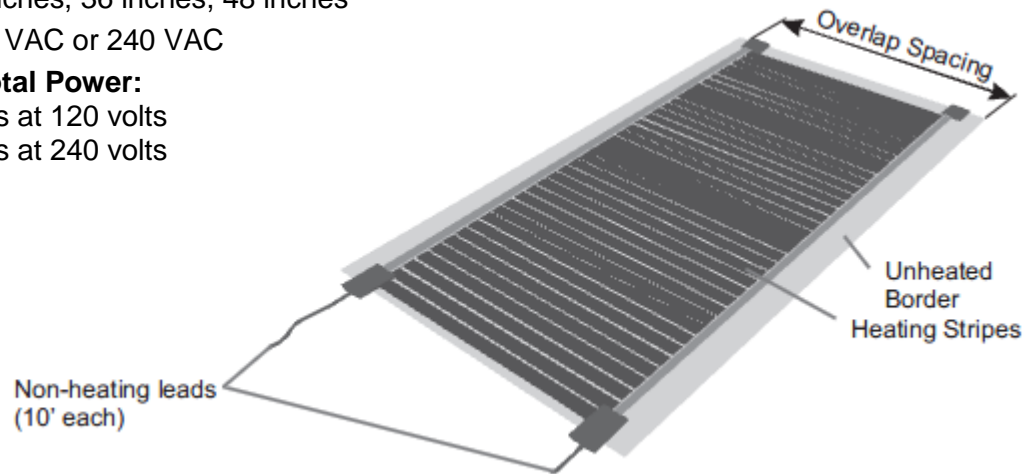
**Widths:** 24 inches, 36 inches, 48 inches

**Voltage:** 120 VAC or 240 VAC

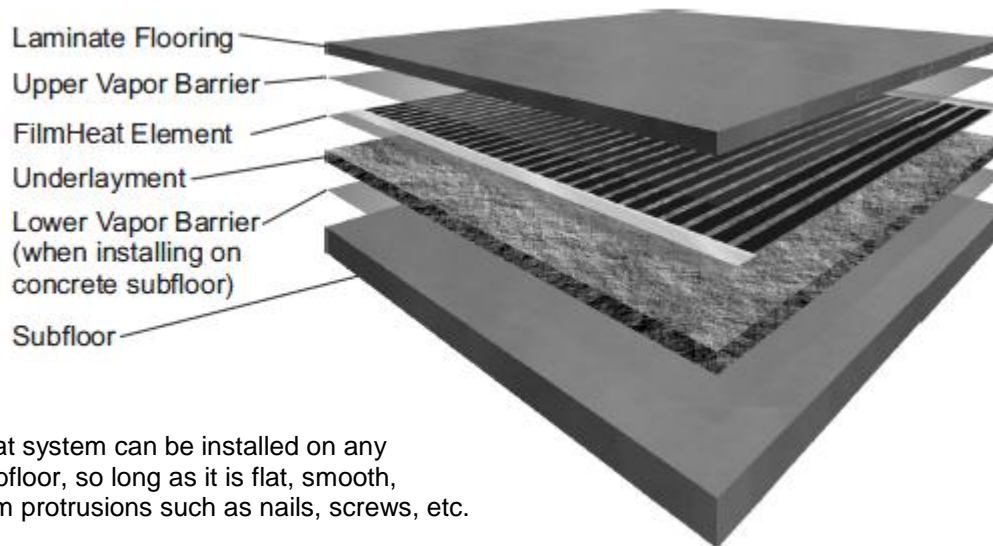
**Maximum Total Power:**

1,920 watts at 120 volts

3,840 watts at 240 volts



## Example of FilmHeat Under Floating Floor Installation



The FilmHeat system can be installed on any standard subfloor, so long as it is flat, smooth, and free from protrusions such as nails, screws, etc.

### WARRANTY INFORMATION

**FilmHeat:** 25-year limited warranty.

**Thermostat:** 2-year limited warranty.



Warmzone can accept no responsibility for possible errors in catalogs, brochures, other printed materials, and website information. Warmzone reserves the right to alter its products without notice. This also applies to products already on order provided that such alteration can be made without subsequent changes being necessary in specifications already agreed upon.

## *About Us*

Warmzone was created to match customers to the best radiant heat products and prices available. As a leading provider of radiant floor heating, roof deicing, portable and embedded snow melting solutions, Warmzone constantly searches for the latest radiant heat technology to provide customers with outstanding quality solutions, unparalleled service, and preferred pricing.

Radiant heat is still relatively new to most residents in the United States, but it has been widely used in other parts of the world. At Warmzone our goal is to conveniently provide clear information through our website. Our experienced consultants will work with you and guide you to the ideal system for your needs. We offer sincere, non-biased recommendations based on your requirements and what makes the most sense, from small remodeling projects to large commercial construction.

While the hydronics technology has gained the most recognition in North America, we have found a variety of other energy efficient solutions that utilize electricity. This is where Warmzone uses experience to understand your needs, and our experts will propose a radiant heat system that will provide the results you dreamed of without the hassle of weeks of research. We have formed relationships with companies worldwide that we consider to be the best in their class. Warmzone is proud to offer the highest quality, proven products at the best prices available - all in a quick and convenient manner. When it comes to radiant heat, you won't find a more knowledgeable, helpful and friendly staff.

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