Electric Floor-Warming Product Catalog

HeatWeave® Floor-Warming Mats

FloorStat™ Controls

LoudMouth™ Monitor

Installation Accessories

Showroom Display

Quick-Quote™ Guide

TCA
Tile Council of America, Inc.

WATTS MAKES IT SAFE

Made in the USA
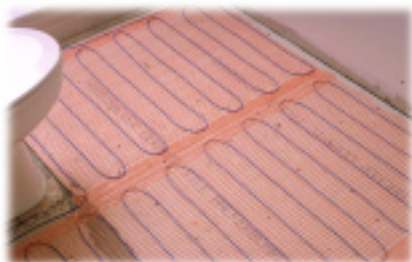
Step Onto a HeatWeave Floor!

Warm Your Floors

HeatWeave mats warm almost any floor covering. They work great in new construction or remodeling and in projects of any size.

Feel Wonderful

HeatWeave is true radiant heating. It feels like a gentle foot massage or a walk on a warm beach. Warm floors are also dry floors and that is important in your bathroom, kitchen or entry.

Heat Cold Rooms

You can heat most rooms with a HeatWeave floor. Contact your local HeatWeave distributor for details.

Easy to Install

There's a HeatWeave mat sized exactly for your project. Roll out the mat on your subfloor and secure it in place with tape or staples. When you need to make a turn, cut the orange fabric between the blue heating elements and fill in the area to be heated. Our installation videos and manuals will show you the details.

Peace of Mind

Use the HeatWeave LoudMouth™ monitor when you install your mats. The Loud-Mouth monitors the heating elements and sets off an alarm if they are ever damaged . . . <u>before</u> the floor is finished!

It's Affordable

The materials cost for an average 30–40-sq.ft. HeatWeave floor is less than $800 and an average operating cost is about 10¢ a day, or $3 per month.

Control Your Comfort

The HeatWeave FloorStat uses a floor sensor for selecting your temperature. An optional programmable control automatically turns your system on and off based on your personal schedule. Both models contain a Ground Fault Circuit Interrupter (GFCI) for safety.

Engineered for Safety

HeatWeave is the safest electric floor-warming mat in the world. The power leads and heating elements are fully grounded from one end of the mat to the other. They are also armored against jobsite abuse. The blue heating elements are reinforced with DuPont® Kevlar® and insulated with DuPont Tefzel®. HeatWeave is the only tile-warming product manufactured in America that registers no measurable electromagnetic field (EMF)*. No other product offers this combination of safety features.

Number One in North America

Award-winning HeatWeave is the most requested electric radiant mat in North America. You'll find more options, more sources, more support and more satisfaction with HeatWeave.

HeatWeave FAQ

Q. Is it expensive to use HeatWeave to heat a floor?
A. No, because the FloorStat control uses only enough power to do the job, nothing more. When the floor is warm, the electricity cycles off. On average, the electricity is only on about one-third of the time.

Q. How much power does the mat use?
A. A 10-sq.ft. mat uses about 40 watts over the course of the day, the same amount as a 40-watt light bulb.

Q. How warm does the floor get?
A. Most people prefer about 80° to 85°F. You can adjust the temperature with your FloorStat.

Q. Can I use HeatWeave under wood or carpet?
A. Yes! HeatWeave is listed for use beneath other floor coverings if the mat is covered with self-leveling thin-set. Nail-down hardwoods are not approved.
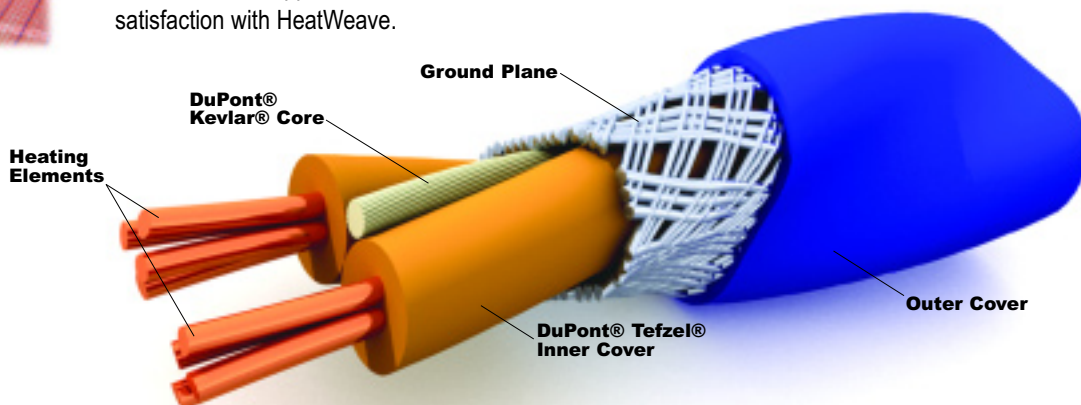
Q. What kind of circuitry do I need?
A. Use a 15- or 20-amp, 120- or 240-volt circuit with the HeatWeave FloorStat. The circuit will be protected by a ground fault circuit interrupter (GFCI) device. Amperage is determined by the square footage of the mat(s).

Q. I'm worried about products that emit EMFs (electromagnetic fields). Is HeatWeave safe?
A. HeatWeave emits ZERO measurable EMF.* It's the safest floor warming product in the world.

ZERO EMF
Zero Electro Magnetic Field

c(UL)us

*When measured at 1/2" above floor surface with a field EMF meter. HeatWeave internal lab results. Not UL verified.

Heating Elements

DuPont® Kevlar® Core

Ground Plane

DuPont® Tefzel® Inner Cover

Outer Cover

Three Ways To Warm Your Cold Floors

Under Tile or Stone.

HeatWeave warms tile and stone floors in bathrooms, kitchens, entries and sunrooms of any size and layout.

Roll out the HeatWeave mat on your subfloor and cut the orange mat to fit your room. Fasten the mat with tape or staples. Then top it with thin-set mortar and tile or stone.

Under Laminates.

HeatWeave mats are also UL Listed to warm any direct-contact floor surface as long as the mat is embedded in mortar. Laminates, engineered flooring, and vinyl flooring are popular choices.

Roll out the mat and hold it in place with tape or staples. Pour a 1/4"–1/2" layer of self-leveling mortar over the mat and then cover it with the finished flooring.
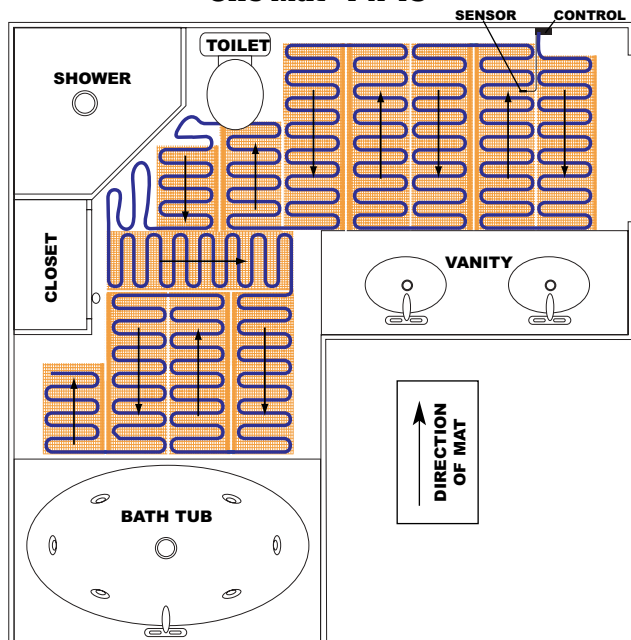
Under Anything.

If the floor surface is finished but you have access from below, you can install HeatWeave UnderFloor™ mats between the floor joists.

HeatWeave UnderFloor warms virtually any type of flooring material. Simply staple HeatWeave UnderFloor between the joists leaving a 1" space between the mat and the floor. One mat can heat several joist spaces. Insulate below the mat as shown.
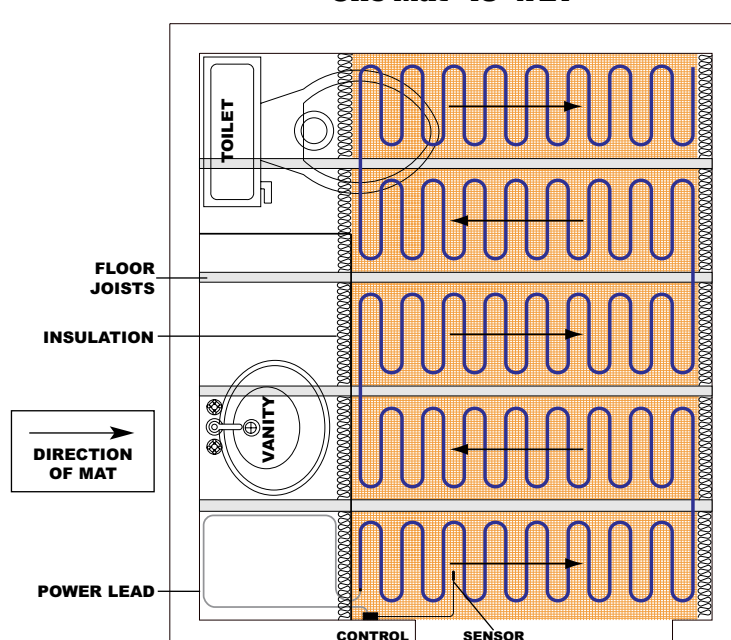
One Mat 1' x 45'

SENSOR CONTROL
TOILET
SHOWER
CLOSET
VANITY
DIRECTION OF MAT
BATH TUB

One Mat 16" x 21'

TOILET
FLOOR JOISTS
INSULATION
DIRECTION OF MAT
VANITY
POWER LEAD
CONTROL SENSOR

Sample Bathroom Layout Using HeatWeave:

Cut the orange mat between the blue heating wires to make turns. Install the mat(s) right up to the face of cabinets, and roughly 4"–6" away from walls and the wax toilet ring.

Sample Bathroom Layout Using UnderFloor Mats:

Staple mat to the sides of the joists below the subfloor. Cut the orange mat between the blue heating wires to transition from one joist bay to another. Insulate any penetrations, around the perimeter, and below the mat.

For design assistance, see our Web site at www.wattsradiant.com or use our Quick-Quote™ Planner on the back of this catalog.

HeatWeave

HeatWeave is the safest and easiest-to-install heating mat in the industry. Listed by UL® for the U.S. and Canada and tested by TCA for all residential and moderate commercial applications. All mats have the "S-pattern" wire construction and produce 12 watts/sq.ft. A single power connection comes off one mat corner. Just a few benefits of HeatWeave are:

1. Thin, open-weave construction allows thin-set or self-leveling mortar to install in one step to easily bond with the underlying material. HeatWeave adds only 1/8" over a normal tile installation.

2. Over 45 sizes manufactured in three widths (1', 2', and 3' wide) in sizes covering up to 160 sq.ft. Mats of any size (same voltage) may be combined to heat larger areas.

3. 120 VAC and 240 VAC models available for small residential to large commercial applications.

4. Highest-quality heating wire using DuPont® Kevlar®, Tefzel®, and copper alloys for corrosion-resistance, temperature-resistance, abrasion resistance, and longevity.

5. Armored and fully grounded 10-ft. power lead for safety and job-site durability (longer lengths available on request). Power leads are color-coded black/white/green for 120 VAC, and black/blue/green for 240 VAC.

6. Zero electromagnetic field (EMF) generation (measured at 1/2" above operating wire set at milligauss setting).

All HeatWeave Mats $16⁹⁰ per sq.ft.

120 VAC MATS

1'-wide Mats

MAT SIZE	TOTAL SQ. FT.	MODEL NUMBER	ORDER NUMBER	SHIP WT. (LBS.)	AMP. DRAW	PRICE EA.	QTY.	SUBTOTAL PRICE
1' x 10'	10	12001012	81002196	3	1.0	$169.00		
1' x 15'	15	12001512	81002206	4	1.5	$253.50		
1' x 20'	20	12002012	81002215	4	2.0	$338.00		
1' x 25'	25	12002512	81002224	5	2.5	$422.50		
1' x 30'	30	12003012	81002230	5	3.0	$507.00		
1' x 35'	35	12003512	81002238	6	3.5	$591.50		
1' x 40'	40	12004012	81002244	6	4.0	$676.00		
1' x 45'	45	12004512	81002250	7	4.5	$760.50		
1' x 50'	50	12005012	81002252	7	5.0	$845.00		

2'-wide Mats

MAT SIZE	TOTAL SQ. FT.	MODEL NUMBER	ORDER NUMBER	SHIP WT. (LBS.)	AMP. DRAW	PRICE EA.	QTY.	SUBTOTAL PRICE
2' x 5'	10	12000524	81002183	3	1.0	$169.00		
2' x 10'	20	12001024	81002197	4	2.0	$338.00		
2' x 15'	30	12001524	81002208	5	3.0	$507.00		
2' x 20'	40	12002024	81002217	6	4.0	$676.00		
2' x 25'	50	12002524	81002226	7	5.0	$845.00		
2' x 30'	60	12003024	81002234	9	6.0	$1,014.00		
2' x 35'	70	12003524	81002240	11	7.0	$1,183.00		
2' x 40'	80	12004024	81002246	13	8.0	$1,352.00		

3'-wide Mats

MAT SIZE	TOTAL SQ. FT.	MODEL NUMBER	ORDER NUMBER	SHIP WT. (LBS.)	AMP. DRAW	PRICE EA.	QTY.	SUBTOTAL PRICE
3' x 5'	15	12000536	81002184	4	1.5	$253.50		
3' x 6'8"	20	12000636	81002188	4	2.0	$338.00		
3' x 8'4"	25	12000836	81002194	5	2.5	$422.50		
3' x 10'	30	12001036	81002200	5	3.0	$507.00		
3' x 15'	45	12001536	81002209	7	4.5	$760.50		
3' x 20'	60	12002036	81002220	9	6.0	$1,014.00		

120 VAC HEATWEAVE TOTAL: $

240 VAC MATS

1'-wide Mats

MAT SIZE	TOTAL SQ. FT.	MODEL NUMBER	ORDER NUMBER	SHIP WT. (LBS.)	AMP. DRAW	PRICE EA.	QTY.	SUBTOTAL PRICE
1' x 20'	20	24002012	81002273	4	1.0	$338.00		
1' x 30'	30	24003012	81002282	5	1.5	$507.00		
1' x 40'	40	24004012	81002291	6	2.0	$676.00		
1' x 50'	50	24005012	81002409	7	2.5	$845.00		

2'-wide Mats

MAT SIZE	TOTAL SQ. FT.	MODEL NUMBER	ORDER NUMBER	SHIP WT. (LBS.)	AMP. DRAW	PRICE EA.	QTY.	SUBTOTAL PRICE
2' x 10'	20	24001024	81002265	4	1.0	$338.00		
2' x 15'	30	24001524	81002269	5	1.5	$507.00		
2' x 20'	40	24002024	81002274	6	2.0	$676.00		
2' x 25'	50	24002524	81002279	7	2.5	$845.00		
2' x 30'	60	24003024	81002284	9	3.0	$1,014.00		
2' x 35'	70	24003524	81002288	11	3.5	$1,183.00		
2' x 40'	80	24004024	81002293	13	4.0	$1,352.00		
2' x 45'	90	24004524	81002407	15	4.5	$1,521.00		
2' x 50'	100	24005024	81002410	17	5.0	$1,690.00		
2' x 60'	120	24006024	81002415	19	6.0	$2,028.00		
2' x 70'	140	24007024	81002419	21	7.0	$2,366.00		
2' x 80'	160	24008024	81002422	23	8.0	$2,704.00		

3'-wide Mats

MAT SIZE	TOTAL SQ. FT.	MODEL NUMBER	ORDER NUMBER	SHIP WT. (LBS.)	AMP. DRAW	PRICE EA.	QTY.	SUBTOTAL PRICE
3' x 10'	30	24001036	81002266	5	1.5	$507.00		
3' x 13'4"	40	24001336	81002268	6	2.0	$676.00		
3' x 16'8"	50	24001636	81002272	7	2.5	$845.00		
3' x 20'	60	24002036	81002277	9	3.0	$1,014.00		
3' x 30'	90	24003036	81002286	15	4.5	$1,521.00		
3' x 40'	120	24004036	81002406	19	6.0	$2,028.00		

240 VAC HEATWEAVE TOTAL: $

HeatWeave UnderFloor Mats

HeatWeave UnderFloor™ Mats are the perfect solution for nearly every type of floor covering. These special UnderFloor mats warm existing floors without having to replace the floor coverings. If you have access under a floor, simply staple these mats between the joists.

These effective, UL-Listed mats deliver 11 watts/sq. ft. of floor area (about 37 BTU/hour), and will warm the average floor about 12° to 15°F, depending on floor construction. HeatWeave UnderFloor will warm wood, vinyl, laminates, or tile floor coverings. Insulation under the floor is essential to complete the installation. The mats listed below are for joists spaced 16" on center.

Consider these benefits of HeatWeave UnderFloor Mats:

1. Easy staple-up installation between floor joists.

2. Manufactured in 21 different lengths providing 11 to 114 sq.ft. of underfloor heating. Mats of any size (same voltage) may be combined to heat larger areas.

3. 120 VAC and 240 VAC models for small to large projects.

4. Highest-quality heating wire using DuPont® Kevlar®, Tefzel®, and copper alloys for corrosion-resistance, temperature-resistance, abrasion-resistance, and longevity.

5. Armored and fully grounded 10-ft. power lead for safety and job-site durability (longer lengths available on request). Power leads are color-coded black/white/green for 120 VAC and black/blue/green for 240 VAC.

6. Zero electromagnetic field (EMF) generation (measured at 1/2" above operating wire set at milligauss setting).

Note: Do not install **HeatWeave UnderFloor** mats in mortar or cement, or install them in the same control zone as **HeatWeave** mats, as the two series of mats have different heat output.

All HeatWeave UnderFloor Mats $16⁹⁰ per sq.ft.

120 VAC MATS

16"-wide Mats

MAT SIZE	TOTAL SQ. FT.	MODEL NUMBER	ORDER NUMBER	SHIP WT. (LBS.)	AMP. DRAW	PRICE EA.	QTY.	SUBTOTAL PRICE
16" x 8'	11	12000816U	81002191	3	1.0	$185.90		
16" x 12'	16	12001216U	81002203	4	1.5	$270.40		
16" x 17'	23	12001716U	81002213	4	2.1	$388.70		
16" x 21'	28	12002116U	81002223	5	2.7	$473.20		
16" x 26'	35	12002616U	81002229	6	3.1	$591.50		
16" x 30'	40	12003016U	81002233	6	3.6	$676.00		
16" x 34'	45	12003416U	81002237	7	4.1	$760.50		
16" x 38'	50	12003816U	81002243	8	4.7	$845.00		
16" x 43'	57	12004316U	81002249	9	5.1	$963.30		
16" x 51'	68	12005116U	81002255	11	6.3	$1,149.20		
16" x 60'	80	12006016U	81002257	13	7.8	$1,352.00		
16" x 68'	90	12006816U	81002258	15	8.3	$1,521.00		

120 VAC UNDERFLOOR MAT TOTAL: $

240 VAC MATS

16"-wide Mats

MAT SIZE	TOTAL SQ. FT.	MODEL NUMBER	ORDER NUMBER	SHIP WT. (LBS.)	AMP. DRAW	PRICE EA.	QTY.	SUBTOTAL PRICE
16" x 16'	21	24001616U	81003367	4	1.0	$354.90		
16" x 24'	32	24002416U	81004001	6	1.5	$540.80		
16" x 34'	45	24003416U	81002901	7	2.1	$760.50		
16" x 42'	56	24004216U	81003577	9	2.7	$946.40		
16" x 52'	69	24005216U	81002412	11	3.1	$1,166.10		
16" x 60'	80	24006016U	81002414	13	3.6	$1,352.00		
16" x 68'	90	24006816U	81002417	15	4.1	$1,521.00		
16" x 76'	101	24007616U	81003368	17	4.7	$1,706.90		
16" x 86'	114	24008616U	81002423	19	5.1	$1,926.60		

240 VAC UNDERFLOOR MAT TOTAL: $

HeatWeave Controls & Accessories

HeatWeave FloorStat™ Controls

NEW!

The newly-redesigned FloorStat controls are now even more elegant. Loaded with more features, they are easier than ever to install and program due to the new two-part "control face" and "power base" design. Both FloorStats are sold with power bases as a single item; however, control faces and power bases can be ordered separately, if desired.

Having the thermostat in two parts makes it easier to wire line voltage, the floor sensor and our new remote thermostat control. The control face is easily removed from the power base allowing upgrade from non-programmable to programmable or vice versa. Because a built-in capacitor holds about 2 hours of power, you can also remove the face, program it at the kitchen table, and then reattach it to the power base.

Programmable FloorStat Control

NEW!

The Programmable FloorStat is both elegant and intelligent. Available for both 120 VAC and 240 VAC, it accepts programming for three set-points: Comfort, Economy (set-back), and Vacation. Features include:

- A floor sensor that directly senses floor temperature
- A 16-amp capacity controlling up to 150 sq.ft. of 120-VAC mats, or 260 sq.ft. of 240-VAC mats
- Built-in ground fault protection with no need for a separate GFCI (in most code areas)
- Large digital display
- Temperature range of 40° to 104°F
- Temperature display in °F or °C
- On/Off switch
- Connection for new Remote FloorStat Control.

FloorStat Control

NEW!

The non-programmable FloorStat is very simple to operate. Just push the on/off button and turn the dial to set the floor temperature. It has several other features:

- A floor sensor that directly senses floor temperature
- Built-in ground fault protection with no need for a separate GFCI (in most code areas)
- Temperature range of 59° to 95°F
- 16-amp capacity to control up to 150 sq.ft. of 120-VAC HeatWeave mats
- Connection for new Remote FloorStat Control.

  Available only in 120 VAC model.

Replacement Control Face and Power Base

NEW!

Control face units can be ordered separately as non-programmable (500550) or programmable (500650). Replacement control face units are compatible with either 120-VAC or 240-VAC power base units. Replacement power bases can be ordered separately. Order either the 120-VAC base (PB112-120GA) or the 240-VAC base (PB112-240GA).

Remote FloorStat Control

NEW!

This control provides remote control of up to four HeatWeave FloorStats (and possibly other devices). Through a telephone line, you can set the temperature of a thermostat to an energy-saving level during a long absence, and reset it to a comfortable temperature level before returning. Take advantage of greater operating flexibility and maximize your energy savings. Ideal for primary or secondary residences.

HeatWeave Controls and Accessories

DESCRIPTION	MODEL NUMBER	ORDER NUMBER	SHIP WT. (LBS.)	PRICE EACH	QTY.	SUBTOTAL PRICE
Prog. FloorStat 120 VAC	500650-120BH	81002908	2	$223.00		
Prog. FloorStat 240 VAC	500650-240B	81002909	2	$223.00		
Nonprog. FloorStat 120 VAC	500550-120B	81003836	2	$166.00		
Power Base 120 VAC	PB112-120GA	81004092	2	$117.00		
Power Base 240 VAC	PB112-240GA	81004093	2	$124.50		
Prog. Control Face	500650-F	81004094	2	$99.00		
Nonprog. Control Face	500550-F	81004095	2	$86.00		
Remote FloorStat Control	500900	81004160	3	$205.60		
Extra FloorStat Sensor	500100	81000048	1	$11.30		
LoudMouth Monitor	423250	81000049	2	$55.40		
HeatWeave Install Kit	600410	81002490	3.5	$26.80		
Extra 2-Sided Tape	423275	81000051	.6 lb./roll	$13.15		
UnderFloor Install Kit	600416	81002492	2	$14.10		
Extra Power Lead 120 VAC	322722-120	81000052	.25 lb./ft.	$8.90/ft.		
Extra Power Lead 240 VAC	322722-240	81000054	.25 lb./ft.	$8.90/ft.		
HeatWeave Repair Kit	200300	81002455	1	$21.20		

CONTROLS AND ACCESSORIES TOTAL: $

GRAND TOTAL: $

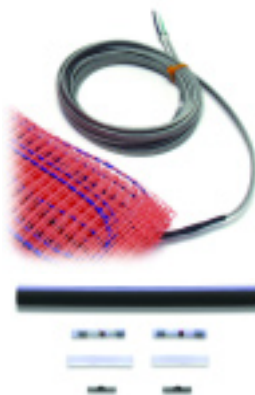# HeatWeave Controls & Accessories

NEW!

LoudMouth™ Monitor

The LoudMouth sounds an alarm if the mat's heating elements are cut or damaged, allowing for easy repair <u>before</u> the mat is covered with mortar and tile. Use it during the entire installation of your HeatWeave mats to monitor the heating elements and give yourself the assurance of a quality installation. It's a must for every job.

Our newly redesigned LoudMouth is better than ever. It has a bright new look and sports several new features:
- 9-V battery power, not 120 VAC as before
- A *much* louder alarm
- An on/off switch
- Green light to indicate operation and red light to indicate damage
- A test button to make sure it is operational.

HeatWeave Installation Kit

Everything you need to make the installation easier. Includes an installation video, installation manual, one 1" x 36-yard roll of double-sided tape to secure mat to the substrate (up to 150 sq.ft. of mat), 10 NailTites to secure the power leads and 50 wire clips.

Double-sided Tape

Each roll covers minimum 150 sq.ft. of mat. Order extra rolls of tape if the project is bigger than 150 sq.ft.

UnderFloor Installation Kit (not pictured)

Includes a manual, 10 NailTites and 50 wire clips.

Extra Power Lead

HeatWeave mats come standard with 10-ft. power lead but can be ordered with extra-long power leads, up to a maximum of 50 ft. in length. Let us know how long the leads need to be in order to reach the electrical box or control. We'll make the mat with a custom power lead to fit your application. For 120 VAC and 240 VAC.

Repair Kit

This simple and safe kit repairs heating elements damaged or severed during installation. Detailed written instructions included.

NEW!

WireWorks™ Design Software

Quote both HeatWeave and HeatWeave UnderFloor mats in a snap. You can select the exact mat(s) and stock control(s) needed for the project or design around mats. All you need is the square footage of heated floor area and you'll have a project pulled together in no time. Call for pricing and availability.

Heated Counter Display

Floor heat must be felt to be understood.

This heated 120 VAC HeatWeave display demonstrates the sheer comfort of warm tile floors. Comes complete with brochures, manuals, installation video, literature rack, graphic panel and graphic installation sticker. Measures 14"H x 12"W x 12"D. Tile/stone not included — select your own for display. We want to help you sell YOUR tile/stone.

HeatWeave Heated Counter Display

DESCRIPTION	MODEL NUMBER	ORDER NUMBER	SHIP WT. (LBS.)	PRICE EACH	QTY.	SUBTOTAL PRICE
Heated Counter Display	1001	81002504	15	$85.00		

HEATWEAVE DISPLAY TOTAL: $

Quick-Quote™ Planner

Project Name: _____

Project Number: _____

Date: _____

Designer Information

Name: _____

Company: _____

Address: _____

Phone: _____ **Fax:** _____

E-mail: _____

Project Contact Information

Name: _____

Company: _____

Address: _____

Phone: _____ **Fax:** _____

E-mail: _____

Since all mats are the same price per square foot, it's easy to quote a HeatWeave system. Write down your calculations here. ➡

1. Calculate the total wall-to-wall area of the room, then subtract the built-ins such as the vanity, tub, toilet, refrigerator, etc.

2. Multiply this area by 0.90, then round *down* to the nearest 5 sq.ft. This is the "heated area." For rooms with no built-ins or obstructions, simply take out 6"–12" around the perimeter of the room to determine the heated area. Don't multiply by 0.90.

3. Multiply the heated area by your mat price per square foot.

4. Add the price of a FloorStat, LoudMouth, and Installation Kit. If this price meets your budget, select mat(s) from this catalog that equal the "heated area."

UnderFloor Mats: The best, most accurate way to quote Under-Floor mats is to simply measure the lineal footage available in the joist space(s).

Need a drawing? Please reference our Design Library at www.wattsradiant.com or use your WireWorks™ software to select from several hundred existing drawings to find the one most similar to your project.

Determining the amount of HeatWeave Mat:

1. (Total area − built-ins) = (_____ − _____) = _____ sq.ft.

2. Multiply this area by 0.90. _____ x 0.90 = _____ sq.ft.
Then round *down* to nearest 5 sq.ft. "Heated area" = _____ sq.ft.

3. Multiply this area by retail mat price per square foot:

_____ sq.ft. x $ _____ /sq.ft. = $ _____

4. Choose any additional accessories:

	Qty.	Price Ea.	Subtotal
HeatWeave (Programmable) FloorStat	____	x $ _____	= $ _____
HeatWeave LoudMouth	____	x $ _____	= $ _____
HeatWeave Installation Kit	____	x $ _____	= $ _____
Extra FloorStat Sensor	____	x $ _____	= $ _____
_____	____	x $ _____	= $ _____
		TOTAL:	**$ _____**

Draw dimensional floor plan with FloorStat location and HeatWeave mats in this gridded area:

Scale: 1 = _____

HeatWeave

800-276-2419 (toll-free USA/Canada)   **417-864-6108**   **417-864-8161 (Fax)**

Charter Member:
RPA 00000
Radiant Panel Association