



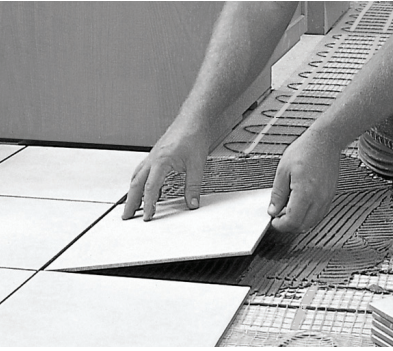
MasterHeat[®]

Floor Heating & Floor Warming Experts

Product Catalog

www.masterheat.com

Warm from the ground up.



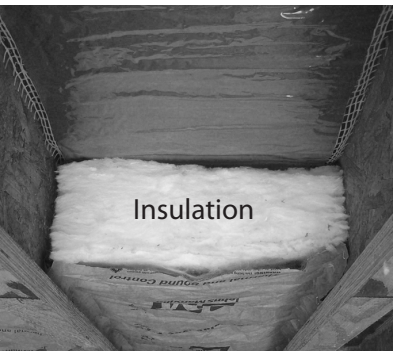
MasterHeat Mats

Roll out MasterHeat Mats over a subfloor, shape them to fit the room and cover with thin-set or self-leveling mortar. Almost any floor covering works great. MasterHeat is most popular in baths, kitchens and entries.



MasterHeat Wire

MasterHeat Wire costs less than MasterHeat Mat and installs differently. Secure the cable straps to the subfloor and stretch the wire between them. Cover with thin-set or self-leveling mortar and finish with almost any floor covering.



Under-the-Floor Mats

Install MasterHeat Under-the-Floor mats between floor joists to warm the floor above. They work under any floor covering, including nail-down hardwood flooring. These mats work great for remodeling.



Slab Heating Cables

SlabHeat cables can be used to heat a room or an entire structure. The cables install directly in the slab before it is poured, so they work well as a primary heat source while offering the ability to control heat room by room.



Snow Melting Cables & Mats

New snow melting mats and cables clear snow and ice to make walking and driving safer. They install below concrete, asphalt, stone or brick, and even under exterior tiles. For more safety and less work, these are the simple choice.

Why MasterHeat?

Customers love warm floors. They spend lots of time in kitchens and bathrooms and they want to be comfortable. Electric radiant floors are easy to explain, install, and enjoy. Because warm floors come in many sizes, they fit almost any budget.

Surfaces such as driveways, steps, sidewalks and patios are dangerous when covered with snow and ice. Your customers will love a maintenance free solution to clearing these surfaces. Our new Electric Snow Melting Mats and Cables are easy to install and you don't need a mechanical room.

You can rest easy knowing that MasterHeat builds a solid product. Our wire is better, our power leads are better, our controls are better and our support is better. We're extremely proud of our high quality and safety.

Code Listings and Standards



MasterHeat Mat & Wire Quick Reference Guide

Measurements:

1. Calculate total wall-to-wall area of the room and subtract the square footage of all built-ins (tub, toilet, cabinets, etc.).
2. Multiply this area by .90 and round down to the nearest 5 ft². This is the heated area.
3. Select the appropriate TapeMat or WarmWire Kit that covers your needs based on the square footage of the heated area.

Typical Operating Costs:

Monthly cost to heat a bathroom floor is approximately \$1 per 10 ft² of heated area. This is based on an 80°F floor surface temperature & a 10 cent/KiloWatt Per Hour electric rate.

Product Application:

- MasterHeat electric products can be installed under a variety of tile, stone, laminate, linoleum, vinyl, engineered hardwood, and carpet.
- Mat and Coated Wire are waterproof and UL listed for installation in shower floors and shower seats but not in a shower wall.
- Looking for a main heat source for a room? Check with MasterHeat to make sure the room has enough insulation and is the right application to use Mat or Wire as a main heat source. In many situations, it is possible.

System Info:

- 1 thermostat at 120 volts = 150 sq. ft. or less, 15 amps max.
- 1 thermostat at 240 volts = 160–300 sq. ft. 15 amps max.
- 3 power-leads may be connected to a single MasterHeat Thermostat as long as the product DOES NOT EXCEED the sq. ft. listed above.
- A Wire Fault Installation Monitor (included in each kit) sounds an audible alarm if the heating elements are cut or damaged.
- The MasterHeat Programmable controls are universal controls for both 120 volt & 240 volt systems.
- Up to 3000 ft², can be controlled with a combination of a MasterHeat Thermostat and up to 10 MasterHeat Relays.
- A dedicated circuit and circuit breaker is recommended for each floor heating system.
- MasterHeat Mats produce 12 watts/sq. ft. (41 Btu/hr/sq.ft) which is enough to heat many spaces.

NOTICE

This is not intended to replace instruction sheet

Continued on next page

MasterHeat Mat & Wire Quick Reference Guide (cont.)

Choose the right wire spacing:

The distance between the wires determines how much heat is produced per square foot. It's important to choose the correct spacing based on the area you will be heating.

2"

15 Watts/sq. ft. Use on concrete basement slabs, sunrooms, and in other high heat loss areas.

2.5"

12 Watts/sq. ft. Use in bathrooms, kitchens, dining/living room areas.

3"

10 Watts/sq. ft. Use in hallways, entries, and other low heat loss areas.

Space wires no closer than 2" and no further apart than 3". The heat will only radiate 2" beyond the heating wire.

Determining Your Layout:

- Stay 4" – 6" away from the toilet wax ring and perimeter walls.
- Run MasterHeatMat and/or Wire up to 1" from cabinet toe-kick areas.
- Product may not be installed under fixed cabinets.
- Contact MasterHeat customer service if you have any questions on the layout of your floor heating system.

Installation Tips:

- Slab-on-grade may need an antifracture membrane with some insulation value, especially for a small heated area over a large concrete slab.
- The MasterHeat products will need to be covered with at least 1/4" of thinset, or 3/8" of self-leveling thinset.
- Do not cut any part of the heating cable. If necessary, you can shorten the power lead.
- Wait 4 weeks before starting up a new MasterHeat system so the mortar can properly cure.
- It is possible to add extra length of power lead at the factory.

Why Choose MasterHeat?

- Assembled in the USA
- Engineered for Safety & Reliability
- 25-Year Warranty on Heating Wire
- 3-Year Warranty on Thermostats

MasterHeat Wire

MasterHeat Wire is a simple, economical way to warm floors and provide years of lasting comfort. Warm all kinds of floor coverings: ceramic tile, stone, wood, laminates, vinyl, or carpet.

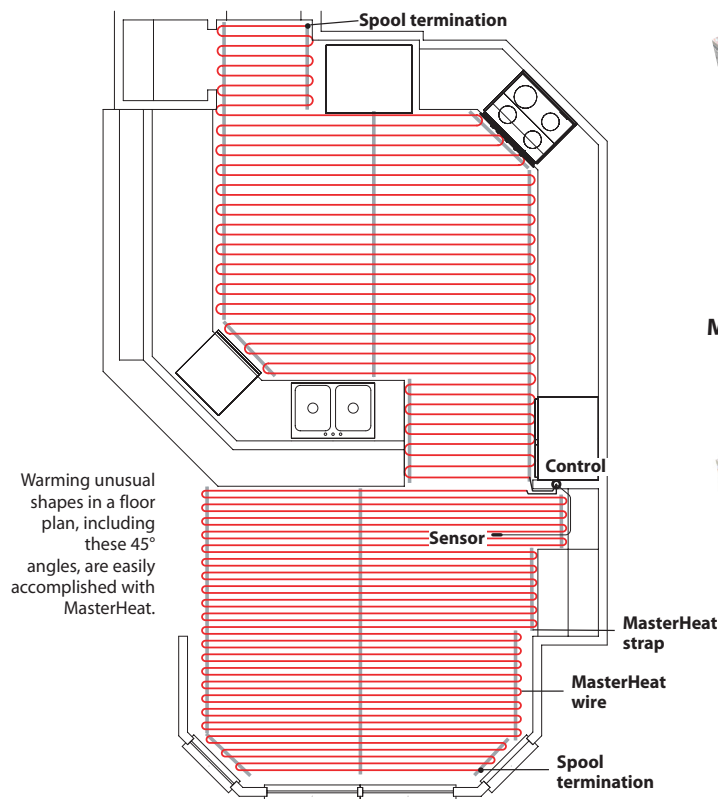
Available coated and uncoated, both wires are available in 120 and 240 VAC sizes to cover from 8 to 240 square feet, depending on wire spacing. MasterHeat Uncoated Wire can be used in all applications, excluding shower installations. Use *MasterHeat Coated Wire* for shower applications, or anywhere the added toughness of an outer jacket is needed (see pg. 11). The outer coating is an incredibly tough, waterproof material. We recommend using a separate heating wire system for shower installations while utilizing the same control as other floor heated areas of the bathroom.

MasterHeat Wires can be spaced and attached with metal straps or with special Radiant Positioning Mats called RPM-330. In either case, pay special attention to how thin-set or self-leveling mortar should be applied over the cables prior to setting tile, stone, or other flooring. Our installation manual will show more details.

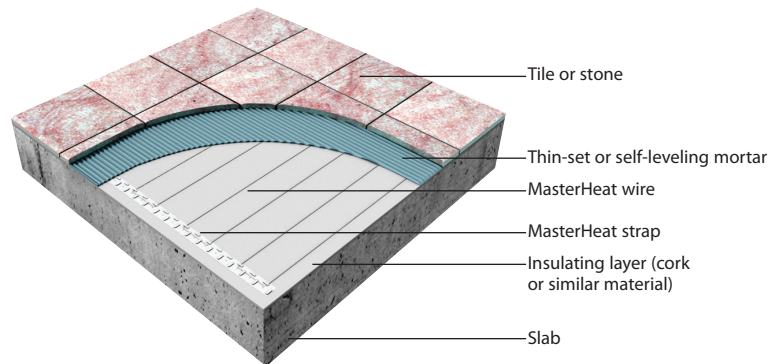


Kitchen/breakfast Layout

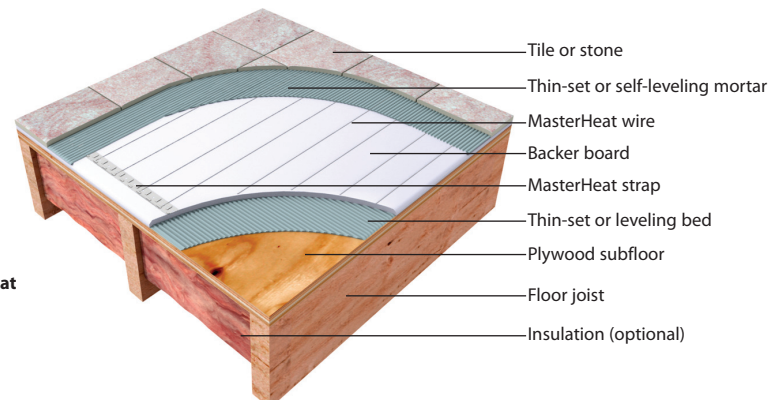
Due to differences in heat loss between the kitchen and breakfast areas, two different spacings were used: 3" on center in the kitchen, and 2" on center in the breakfast area due to the higher heat loss.



MasterHeat in thin-set mortar over slab



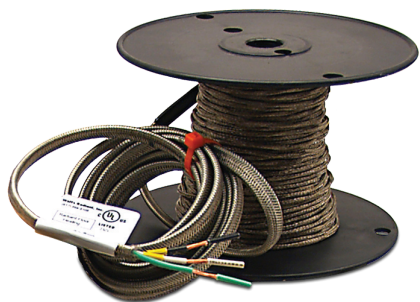
MasterHeat in thin-set on backer board on frame floor



MasterHeat Wire

Economical, easy to install uncoated wire for in floor heat.

Note: do not use uncoated wire in showers or wet areas.



Evaluate how many square feet of floor are to be heated. Do not put under cabinets or appliances. Generally, about 85–90% of the open areas should be heated. Leave the wire at least 6" away from the toilet wax ring and 4"–6" away from your walls. To keep toes warm, install right up to the toe-kick in front of kitchen or bath cabinets, and in front of a toilet, shower, or tub.

Choose a "spacing factor" of 2", 2-1/2", or 3" on center:

• 2" on center = 15 Watts/sq. ft.

Use on concrete basement slabs, sunrooms, and in other high heat loss areas.

• 2-1/2" on center = 12 Watts/sq. ft.

Use in bathrooms, kitchens, dining/living areas, etc.

• 3" on center = 10 Watts/sq. ft.

Use in hallways, entries, low heat loss areas, etc.

2-1/2" on center is the most commonly used spacing, and equals the heat output of MasterHeat mats.



MasterHeat Wire Spools 120 VAC

Total Sq. ft. 2" on center (15 W/sq. ft.)	Total Sq. ft. 2-1/2" on center (12 W/sq. ft.)	Total Sq. ft. 3" on center (10 W/sq. ft.)	Order Number	Model Number	Wire Length (ft.)	Amp Draw	Ship Weight (lb.)
8	10	12	81012083	120010WD-MH	47	1.0	2
12	15	18	81012084	120015WD-MH	71	1.5	2.5
16	20	24	81012085	120020WD-MH	94	2.0	2.5
20	25	30	81012086	120025WD-MH	118	2.5	2.5
24	30	36	81012087	120030WD-MH	141	3.0	2.5
28	35	42	81012088	120035WD-MH	165	3.5	3
32	40	48	81012089	120040WD-MH	188	4.0	3
36	45	54	81012090	120045WD-MH	212	4.5	3.5
40	50	60	81012091	120050WD-MH	235	5.0	3.5
48	60	72	81012092	120060WD-MH	282	6.0	4
56	70	84	81012093	120070WD-MH	329	7.0	4
64	80	96	81012094	120080WD-MH	376	8.0	6
72	90	108	81012095	120090WD-MH	423	9.0	9
80	100	120	81012096	120100WD-MH	470	10.0	10

MasterHeat Wire Spools 240 VAC

Total Sq. ft. 2" on center (15 W/sq. ft.)	Total Sq. ft. 2-1/2" on center (12 W/sq. ft.)	Total Sq. ft. 3" on center (10 W/sq. ft.)	Order Number	Model Number	Wire Length (ft.)	Amp Draw	Ship Weight (lb.)
16	20	24	81012097	240020WD-MH	94	1.0	2.5
24	30	36	81012098	240030WD-MH	142	1.5	3
32	40	48	81012099	240040WD-MH	188	2.0	3
40	50	60	81012100	240050WD-MH	236	2.5	3.5
48	60	72	81012101	240060WD-MH	282	3.0	3.5
56	70	84	81012102	240070WD-MH	330	3.5	4
64	80	96	81012103	240080WD-MH	376	4.0	4
72	90	108	81012104	240090WD-MH	424	4.5	4
80	100	120	81012105	240100WD-MH	470	5.0	7
96	120	144	81012106	240120WD-MH	564	6.0	8
112	140	168	81012107	240140WD-MH	658	7.0	9
128	160	192	81012108	240160WD-MH	752	8.0	13
144	180	216	81012109	240180WD-MH	846	9.0	15
160	200	240	81012110	240200WD-MH	940	10.0	20

2-1/2" spacing provides the same heat output as MasterHeat mats.

* The REET values listed above are 200% below daily exposure levels of the average U.S. citizen as reported by the National Institute of Environmental Health Sciences (NIEHS). Values are average electromagnetic field in milligauss.

The MasterHeat Advantage:

- Twin-wire technology
- Durable
- Flexible
- Single power lead
- Oxygen-free heating elements
- High-temp insulation
- Braided metal jacket

MasterHeat wire secured by the strap at 2-1/2" spacing.

MasterHeat Coated Wire



Coated wire for any room, including wet areas & showers.



MasterHeat Coated Wire Spools 120 VAC

Total Sq. ft. 2" on center (15 W/sq. ft.)	Total Sq. ft. 2-1/2" on center (12 W/sq. ft.)	Total Sq. ft. 3" on center (10 W/sq. ft.)	Order Number	Model Number	Wire Length (ft.)	Amp Draw	Ship Weight (lb.)
8	10	12	81013437	120010WD-JMH	47	1.0	2
12	15	18	81013438	120015WD-JMH	71	1.5	2.5
16	20	24	81013439	120020WD-JMH	94	2.0	3.0
20	25	30	81013440	120025WD-JMH	118	2.5	3.0
24	30	36	81013441	120030WD-JMH	141	3.0	3.5
28	35	42	81013442	120035WD-JMH	165	3.5	3.5
32	40	48	81013443	120040WD-JMH	188	4.0	4.0
36	45	54	81013444	120045WD-JMH	212	4.5	4.5
40	50	60	81013445	120050WD-JMH	235	5.0	5.0
48	60	72	81013446	120060WD-JMH	282	6.0	6.0
56	70	84	81013447	120070WD-JMH	329	7.0	7.0
64	80	96	81013448	120080WD-JMH	376	8.0	8.5
72	90	108	81013449	120090WD-JMH	423	9.0	9.5
80	100	120	81013450	120100WD-JMH	470	10.0	11

MasterHeat Coated Wire Spools 240 VAC

Total Sq. ft. 2" on center (15 W/sq. ft.)	Total Sq. ft. 2-1/2" on center (12 W/sq. ft.)	Total Sq. ft. 3" on center (10 W/sq. ft.)	Order Number	Model Number	Wire Length (ft.)	Amp Draw	Ship Weight (lb.)
16	20	24	81013451	240020WD-JMH	94	1.0	3.0
24	30	36	81013452	240030WD-JMH	142	1.5	3.0
32	40	48	81013453	240040WD-JMH	188	2.0	4.0
40	50	60	81013454	240050WD-JMH	236	2.5	5.0
48	60	72	81013455	240060WD-JMH	282	3.0	6.0
56	70	84	81013456	240070WD-JMH	330	3.5	7.0
64	80	96	81013457	240080WD-JMH	376	4.0	8.5
72	90	108	81013458	240090WD-JMH	424	4.5	9.5
80	100	120	81013459	240100WD-JMH	470	5.0	11.0
96	120	144	81013460	240120WD-JMH	564	6.0	13.0
112	140	168	81013461	240140WD-JMH	658	7.0	15.0
128	160	192	81013462	240160WD-JMH	752	8.0	17.0
144	180	216	81013463	240180WD-JMH	846	9.0	19.0
160	200	240	81013464	240200WD-JMH	940	10.0	21.0

Evaluate how many square feet of floor are to be heated. Do not put under cabinets or appliances. Generally, about 85–90% of the open areas should be heated. Leave the wire at least 4" away from the toilet wax ring and 6" away from your walls. To keep toes warm, install right up to the toe-kick in front of kitchen or bath cabinets, and in front of a toilet, shower, or tub.

Choose a "spacing factor" of 2", 2-1/2", or 3" on center. Below are guidelines for application and spacing recommendations.

- **2" on center = 15 Watts/sq. ft.**
Use on concrete basement slabs, sunrooms, and in other high heat loss areas.
- **2-1/2" on center = 12 Watts/sq. ft.**
Use in bathrooms, kitchens, dining/living areas, etc.
- **3" on center = 10 Watts/sq. ft.**
Use in hallways, entries, low heat loss areas, etc.

2-1/2" on center is the most commonly used spacing, and equals the heat output of MasterHeat mats.

MasterHeat Coated Wire is made similar to MasterHeat Wire, but has an additional tough, water proof outer jacket.

- Oxygen-free heating elements
- High-temp insulation
- Red outer jacket
- Approved for shower floors and benches



MasterHeat wire secured by the strap at 2-1/2" spacing.

* The REET values listed above are 200% below daily exposure levels of the average U.S. citizen as reported by the National Institute of Environmental Health Sciences (NIEHS). Values are average electromagnetic field in milligauss.

Wire Kits

To choose a kit, choose a wire, pick a thermostat, then add the associated thermostat letter to the end of the order number.

-Wi-Fi IP addressable thermostat add **I**

-Touchscreen thermostat add a **V**

-Programmable thermostat add a **P**

-For a non-programmable thermostat add a **N**

-Dial only thermostat add a **D**



Note: do not use uncoated wire in showers or wet areas.



Wi-Fi*	TOUCHSCREEN	PROGRAMMABLE	NON-PROGRAMMABLE	DIAL
I	V	P	N	D

*Wi-Fi thermostat available soon. Check masterheat.com for more information.

Each kit contains:
1 or more spools of MasterHeat Wire
1 MasterHeat Thermostat
1 Wire Fault Installation Monitor
1 or more Boxes of Strap Installation Manual

120 VOLT CABLE KITS

Kits are now available with the control of your choice. Simply add the control choice after the order number. For example, when ordering a 15 SqFt kit with a Dial thermostat, the order code would be 81011496U-D.

DESCRIPTION	QUANTITY & SIZE OF MATS	ORDER#	MODEL# *	SQ. FT. AT 2" O.C.	SQ. FT. AT 2.5" O.C.	SQ. FT. AT 3" O.C.	AMP DRAW
10 SqFt, MasterHeat Wire Kit	(1) 10 sq. ft.	81011495U	120010WD-KIT-MH	8	10	12	1.0
15 SqFt, MasterHeat Wire Kit	(1) 15 sq. ft.	81011496U	120015WD-KIT-MH	12	15	18	1.5
20 SqFt, MasterHeat Wire Kit	(1) 20 sq. ft.	81011497U	120020WD-KIT-MH	16	20	24	2.0
25 SqFt, MasterHeat Wire Kit	(1) 25 sq. ft.	81011498U	120025WD-KIT-MH	20	25	30	2.5
30 SqFt, MasterHeat Wire Kit	(1) 30 sq. ft.	81011499U	120030WD-KIT-MH	24	30	36	3.0
35 SqFt, MasterHeat Wire Kit	(1) 35 sq. ft.	81011500U	120035WD-KIT-MH	28	35	42	3.5
40 SqFt, MasterHeat Wire Kit	(1) 40 sq. ft.	81011501U	120040WD-KIT-MH	32	40	48	4.0
45 SqFt, MasterHeat Wire Kit	(1) 45 sq. ft.	81011502U	120045WD-KIT-MH	36	45	54	4.5
50 SqFt, MasterHeat Wire Kit	(1) 50 sq. ft.	81011503U	120050WD-KIT-MH	40	50	60	5.0
60 SqFt, MasterHeat Wire Kit	(1) 60 sq. ft.	81011504U	120060WD-KIT-MH	48	60	72	6.0
70 SqFt, MasterHeat Wire Kit	(1) 70 sq. ft.	81011505U	120070WD-KIT-MH	56	70	84	7.0
80 SqFt, MasterHeat Wire Kit	(1) 80 sq. ft.	81011506U	120080WD-KIT-MH	64	80	96	8.0
90 SqFt, MasterHeat Wire Kit	(1) 90 sq. ft.	81011507U	120090WD-KIT-MH	72	90	108	9.0
100 SqFt, MasterHeat Wire Kit	(1) 100 sq. ft.	81011508U	1200100WD-KIT-MH	80	100	120	10.0
110 SqFt, MasterHeat Wire Kit	(1) 50 (1) 60 sq. ft.	81011509U	1200110WD-KIT-MH	88	110	132	11.0
120 SqFt, MasterHeat Wire Kit	(2) 60 sq. ft.	81011510U	1200120WD-KIT-MH	96	120	144	12.0
130 SqFt, MasterHeat Wire Kit	(1) 60 (1) 70 sq. ft.	81011511U	1200130WD-KIT-MH	104	130	156	13.0
140 SqFt, MasterHeat Wire Kit	(2) 70 sq. ft.	81011512U	1200140WD-KIT-MH	112	140	168	14.0
150 SqFt, MasterHeat Wire Kit	(1) 70 (1) 80 sq. ft.	81011513U	1200150WD-KIT-MH	120	150	180	15.0

240 VOLT CABLE KITS

DESCRIPTION	QUANTITY & SIZE OF MATS	ORDER#	MODEL#	SQ. FT. AT 2" O.C.	SQ. FT. AT 2.5" O.C.	SQ. FT. AT 3" O.C.	AMP DRAW
160 SqFt, MasterHeat Wire Kit	(2) 80 sq. ft.	81011514U	240160WD-KIT-MH	128	160	192	8.0
170 SqFt, MasterHeat Wire Kit	(1) 80 (1) 90 sq. ft.	81011515U	240170WD-KIT-MH	136	170	204	8.5
180 SqFt, MasterHeat Wire Kit	(2) 90 sq. ft.	81011516U	240180WD-KIT-MH	144	180	216	9.0
190 SqFt, MasterHeat Wire Kit	(1) 90 (1) 100 sq. ft.	81011517U	240190WD-KIT-MH	152	190	228	9.5
200 SqFt, MasterHeat Wire Kit	(2) 100 sq. ft.	81011518U	240200WD-KIT-MH	160	200	240	10.0
220 SqFt, MasterHeat Wire Kit	(1) 100 (1) 120 sq. ft.	81011519U	240220WD-KIT-MH	176	220	264	11.0
240 SqFt, MasterHeat Wire Kit	(2) 120 sq. ft.	81011520U	240240WD-KIT-MH	192	240	288	12.0
260 SqFt, MasterHeat Wire Kit	(1) 120 (1) 140 sq. ft.	81011521U	240260WD-KIT-MH	208	260	312	13.0
280 SqFt, MasterHeat Wire Kit	(2) 140 sq. ft.	81011522U	240280WD-KIT-MH	224	280	336	14.0
300 SqFt, MasterHeat Wire Kit	(1) 140 (1) 160 sq. ft.	81011523U	240300WD-KIT-MH	240	300	360	15.0

Coated Wire Kit



To choose a kit, choose a wire, pick a thermostat, then add the associated thermostat letter to the end of the order number.

- Wi-Fi IP addressable thermostat add **I**
- Touchscreen thermostat add a **V**
- Programmable thermostat add a **P**
- For a non-programmable thermostat add a **N**
- Dial only thermostat add a **D**



Each kit contains:
1 or more Spools of MasterHeat Wire
1 MasterHeat Thermostat
1 Wire Fault Installation Monitor
1 or more Boxes of Strap Installation Manual

Wi-Fi*	TOUCHSCREEN	PROGRAMMABLE	NON-PROGRAMMABLE	DIAL
I	V	P	N	D

*Wi-Fi thermostat available soon. Check masterheat.com for more information.

120 VOLT CABLE KITS

Kits are now available with the control of your choice. Simply add the control choice after the order number. For example, when ordering a 15 SqFt kit with a Dial thermostat, the order code would be 81011496C-D.

DESCRIPTION	QUANTITY & SIZE OF MATS	ORDER#	MODEL# *	SQ. FT. AT 2" O.C.	SQ. FT. AT 2.5" O.C.	SQ. FT. AT 3" O.C.	AMP DRAW
10 SqFt, MasterHeat Wire Kit	(1) 10 sq. ft.	81011495C	120010WD-KIT-MH	8	10	12	1.0
15 SqFt, MasterHeat Wire Kit	(1) 15 sq. ft.	81011496C	120015WD-KIT-MH	12	15	18	1.5
20 SqFt, MasterHeat Wire Kit	(1) 20 sq. ft.	81011497C	120020WD-KIT-MH	16	20	24	2.0
25 SqFt, MasterHeat Wire Kit	(1) 25 sq. ft.	81011498C	120025WD-KIT-MH	20	25	30	2.5
30 SqFt, MasterHeat Wire Kit	(1) 30 sq. ft.	81011499C	120030WD-KIT-MH	24	30	36	3.0
35 SqFt, MasterHeat Wire Kit	(1) 35 sq. ft.	81011500C	120035WD-KIT-MH	28	35	42	3.5
40 SqFt, MasterHeat Wire Kit	(1) 40 sq. ft.	81011501C	120040WD-KIT-MH	32	40	48	4.0
45 SqFt, MasterHeat Wire Kit	(1) 45 sq. ft.	81011502C	120045WD-KIT-MH	36	45	54	4.5
50 SqFt, MasterHeat Wire Kit	(1) 50 sq. ft.	81011503C	120050WD-KIT-MH	40	50	60	5.0
60 SqFt, MasterHeat Wire Kit	(1) 60 sq. ft.	81011504C	120060WD-KIT-MH	48	60	72	6.0
70 SqFt, MasterHeat Wire Kit	(1) 70 sq. ft.	81011505C	120070WD-KIT-MH	56	70	84	7.0
80 SqFt, MasterHeat Wire Kit	(1) 80 sq. ft.	81011506C	120080WD-KIT-MH	64	80	96	8.0
90 SqFt, MasterHeat Wire Kit	(1) 90 sq. ft.	81011507C	120090WD-KIT-MH	72	90	108	9.0
100 SqFt, MasterHeat Wire Kit	(1) 100 sq. ft.	81011508C	1200100WD-KIT-MH	80	100	120	10.0
110 SqFt, MasterHeat Wire Kit	(1) 50 (1) 60 sq. ft.	81011509C	1200110WD-KIT-MH	88	110	132	11.0
120 SqFt, MasterHeat Wire Kit	(2) 60 sq. ft.	81011510C	1200120WD-KIT-MH	96	120	144	12.0
130 SqFt, MasterHeat Wire Kit	(1) 60 (1) 70 sq. ft.	81011511C	1200130WD-KIT-MH	104	130	156	13.0
140 SqFt, MasterHeat Wire Kit	(2) 70 sq. ft.	81011512C	1200140WD-KIT-MH	112	140	168	14.0
150 SqFt, MasterHeat Wire Kit	(1) 70 (1) 80 sq. ft.	81011513C	1200150WD-KIT-MH	120	150	180	15.0

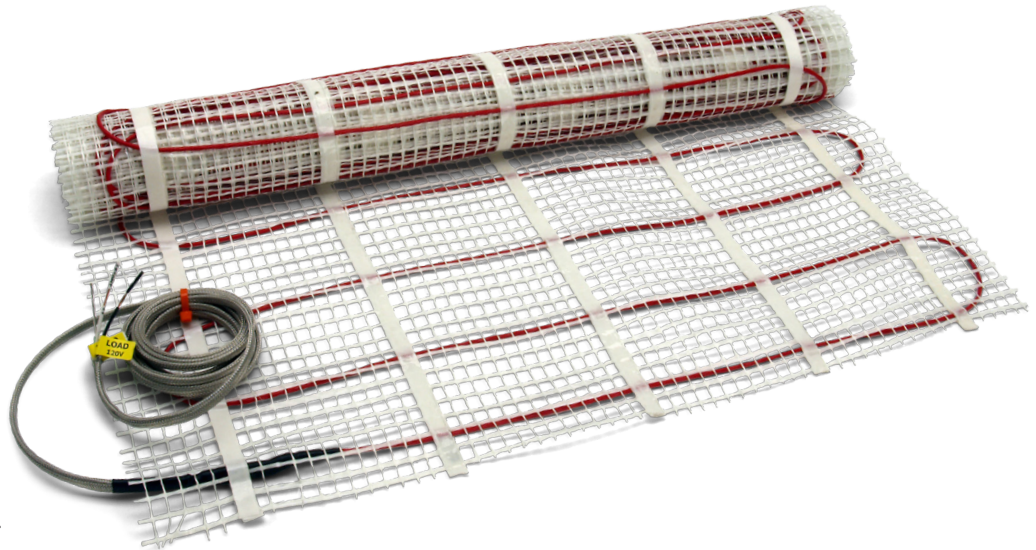
240 VOLT CABLE KITS

DESCRIPTION	QUANTITY & SIZE OF MATS	ORDER#	MODEL#	SQ. FT. AT 2" O.C.	SQ. FT. AT 2.5" O.C.	SQ. FT. AT 3" O.C.	AMP DRAW
160 SqFt, MasterHeat Wire Kit	(2) 80 sq. ft.	81011514C	240160WD-KIT-MH	128	160	192	8.0
170 SqFt, MasterHeat Wire Kit	(1) 80 (1) 90 sq. ft.	81011515C	240170WD-KIT-MH	136	170	204	8.5
180 SqFt, MasterHeat Wire Kit	(2) 90 sq. ft.	81011516C	240180WD-KIT-MH	144	180	216	9.0
190 SqFt, MasterHeat Wire Kit	(1) 90 (1) 100 sq. ft.	81011517C	240190WD-KIT-MH	152	190	228	9.5
200 SqFt, MasterHeat Wire Kit	(2) 100 sq. ft.	81011518C	240200WD-KIT-MH	160	200	240	10.0
220 SqFt, MasterHeat Wire Kit	(1) 100 (1) 120 sq. ft.	81011519C	240220WD-KIT-MH	176	220	264	11.0
240 SqFt, MasterHeat Wire Kit	(2) 120 sq. ft.	81011520C	240240WD-KIT-MH	192	240	288	12.0
260 SqFt, MasterHeat Wire Kit	(1) 120 (1) 140 sq. ft.	81011521C	240260WD-KIT-MH	208	260	312	13.0
280 SqFt, MasterHeat Wire Kit	(2) 140 sq. ft.	81011522C	240280WD-KIT-MH	224	280	336	14.0
300 SqFt, MasterHeat Wire Kit	(1) 140 (1) 160 sq. ft.	81011523C	240300WD-KIT-MH	240	300	360	15.0

MasterHeat Mats

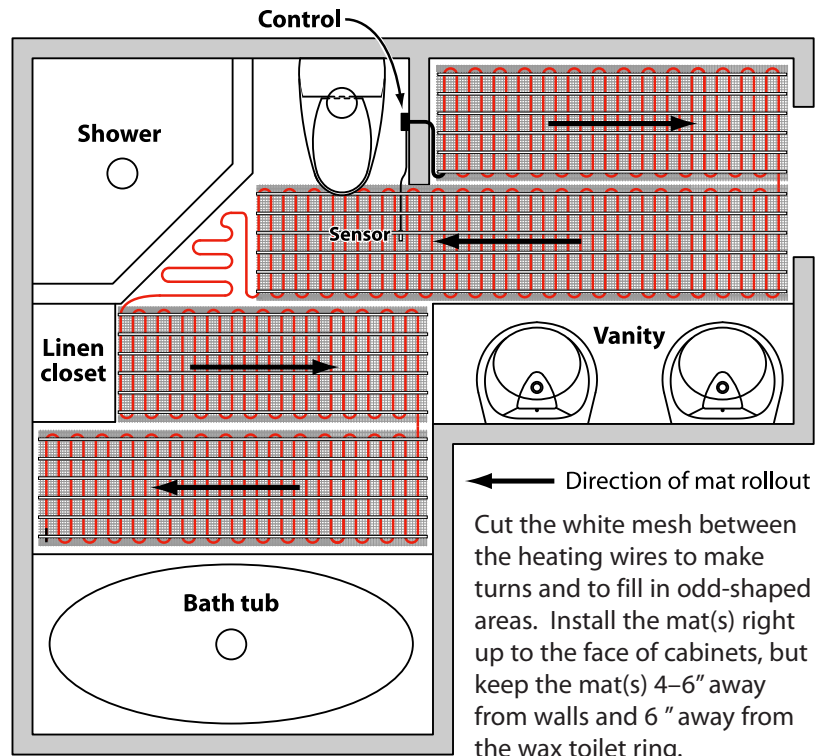
MasterHeat Mats are the safest and easiest-to-install heating mats in the industry. They are listed by UL* for the U.S. and Canada, and tested by Tile Council of North America for all residential and moderate commercial applications.

All mats have the "S-pattern" wire construction and produce 12 watts/sq. ft. MasterHeat offers the largest selection of mats in the industry with over 35 sizes manufactured in 2' and 3' widths, in lengths covering up to 160 sq. ft.

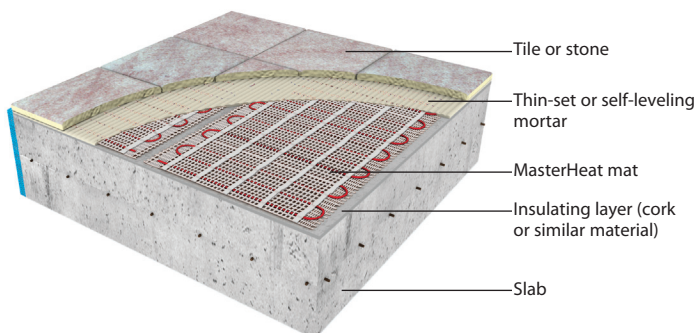


- **Mats lay out flatter** for easier troweling.
- **The industry's first thin, open-weave construction** allows thin-set or self-leveling mortar to flow through the mat and easily bond with the underlying material. This one-step application adds only 1/8" thickness over a normal tile installation.
- **The industry's first single power lead construction** makes mats easy to install and simpler to connect to the control.
- **The industry's highest-quality heating wire** using high-temperature insulation, tough outer jacket, and oxygen-free copper heating elements for corrosion resistance, temperature resistance, abrasion resistance, and longevity.
- **The industry's first twisted, twin-wire construction** creates ultra-low EMF (electromagnetic field).
- **120 VAC and 240 VAC models** available for small residential to large commercial applications.
- **The industry's first shielded and fully grounded** 10-ft. power lead provides safety and jobsite durability. Power leads are color-coded for 120 VAC or 240 VAC.

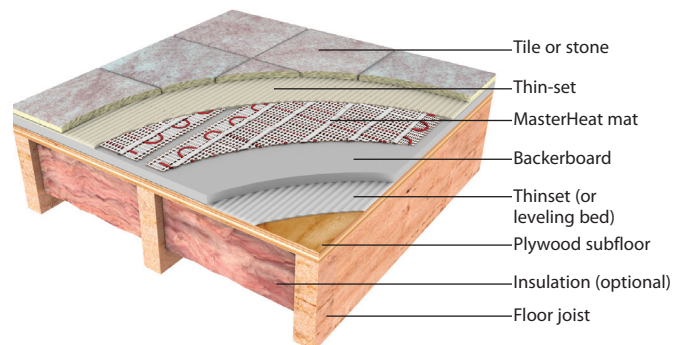
MasterHeat mat bathroom layout One mat: 2 ft. x 25 ft.



MasterHeat mat in thin-set mortar over slab



MasterHeat mat in thin-set on backer board on frame floor

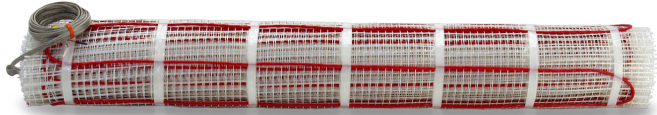


Choosing the correct Mat size(s):

1. Calculate the total square footage of the room.
2. Subtract the square footage of built-ins (floor cabinets, toilets, islands, etc.).
3. Multiply the new square footage by .90.
4. Round down to the nearest 5 square footage mat size.
5. Choose a mat, or combination of mats from the list below that matches the adjusted square footage value.

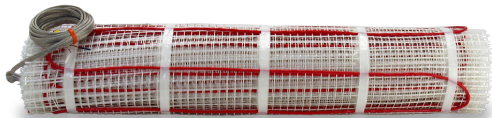
(Total s/f: _____ - built-in s/f _____) x .90 = Required Mat s/f _____

120 VAC Mats



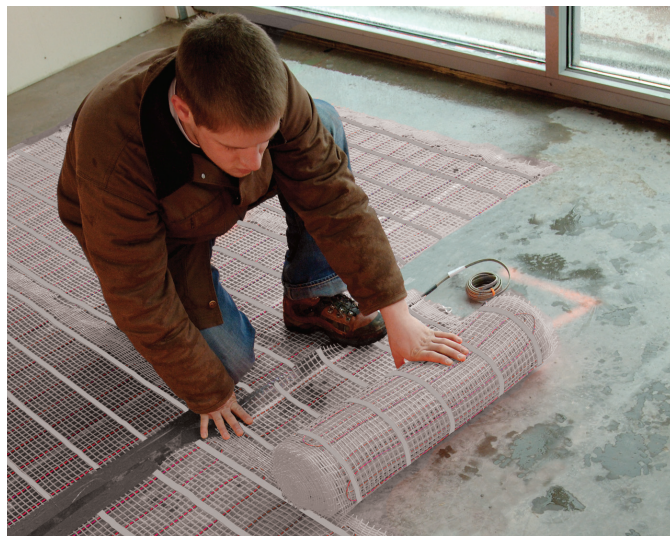
3-ft.-wide mats 120 VAC

Mat Square Footage	Mat Size (W x L)	Order Number	Model Number	Amp Draw	Ship Wt. (lb.)
15	3' x 5'	81013869	12000536-MH	1.5	4
20	3' x 6'-8"	81013870	12000636-MH	2.0	4
25	3' x 8'-4"	81013871	12000836-MH	2.5	5
30	3' x 10'	81013872	12001036-MH	3.0	5
45	3' x 15'	81013873	12001536-MH	4.5	7
60	3' x 20'	81013874	12002036-MH	6.0	9

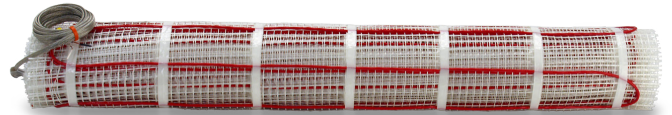


2-ft.-wide mats 120 VAC

Mat Square Footage	Mat Size (W x L)	Order Number	Model Number	Amp Draw	Ship Wt. (lb.)
10	2' x 5'	81013857	12000524-MH	1.0	3
15	2' x 7'-6"	81013858	12000724-MH	1.5	4
20	2' x 10'	81013859	12001024-MH	2.0	4
25	2' x 12'-6"	81013860	12001224-MH	2.5	5
30	2' x 15'	81013861	12001524-MH	3.0	5
35	2' x 17'-6"	81013862	12001724-MH	3.5	6
40	2' x 20'	81013863	12002024-MH	4.0	6
45	2' x 22'-6"	81013864	12002224-MH	4.5	7
50	2' x 25'	81013865	12002524-MH	5.0	7
60	2' x 30'	81013866	12003024-MH	6.0	9
70	2' x 35'	81013867	12003524-MH	7.0	11
80	2' x 40'	81013868	12004024-MH	8.0	13

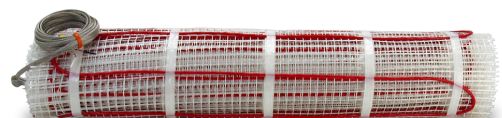


240 VAC Mats



3-ft.-wide mats 240 VAC

Mat Size (W x L)	Order Number	Model Number	Amp Draw	Ship Wt. (lb.)
3' x 10'	81013887	24001036-MH	1.5	5
3' x 13'-4"	81013888	24001336-MH	2.0	6
3' x 16'-8"	81013889	24001636-MH	2.5	7
3' x 20'	81013890	24002036-MH	3.0	9
3' x 30'	81013891	24003036-MH	4.5	15
3' x 40'	81013892	24004036-MH	6.0	19



2-ft.-wide mats 240 VAC

Mat Size (W x L)	Order Number	Model Number	Amp Draw	Ship Wt. (lb.)
2' x 10'	81013875	24001024-MH	1.0	4
2' x 15'	81013876	24001524-MH	1.5	5
2' x 20'	81013877	24002024-MH	2.0	6
2' x 25'	81013878	24002524-MH	2.5	7
2' x 30'	81013879	24003024-MH	3.0	9
2' x 35'	81013880	24003524-MH	3.5	11
2' x 40'	81013881	24004024-MH	4.0	13
2' x 45'	81013882	24004524-MH	4.5	15
2' x 50'	81013883	24005024-MH	5.0	17
2' x 60'	81013884	24006024-MH	6.0	19
2' x 70'	81013885	24007024-MH	7.0	21
2' x 80'	81013886	24008024-MH	8.0	23



Mat Installation Kits

Save by buying a complete kit!



To choose a kit, pick a thermostat and add the associated letter to the end of the order number.

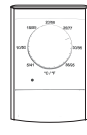
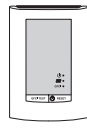
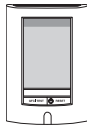
-Wi-Fi IP addressable thermostat add **I**

-Touchscreen thermostat add a **V**

-Programmable thermostat add a **P**

-Non-programmable thermostat add a **N**

-Dial only thermostat add a **D**



WI-FI *	TOUCHSCREEN	PROGRAMMABLE	NON-PROGRAMMABLE	DIAL
I	V	P	N	D

*Wi-Fi thermostat available soon. Check masterheat.com for more information.

Each kit contains:

- 1 or more 2' wide MasterHeat Mat(s)
- 1 MasterHeat Thermostat
- 1 Wire Fault Installation Monitor
- Installation Manual

120 VOLT MAT KITS

Kits are now available with the control of your choice. Ordering is easy by simply adding the control choice after the order number. For example, when ordering a 15 SqFt kit with a Dial thermostat, the order code would be 81012492-D.

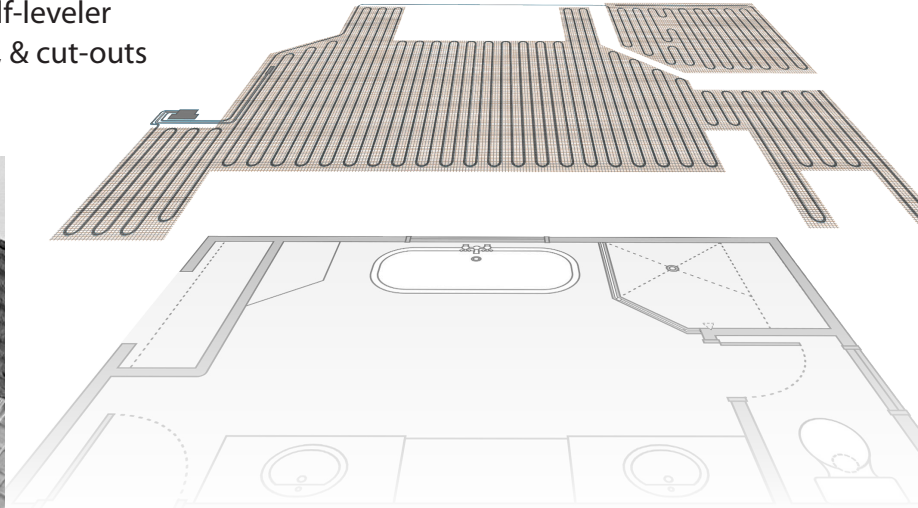
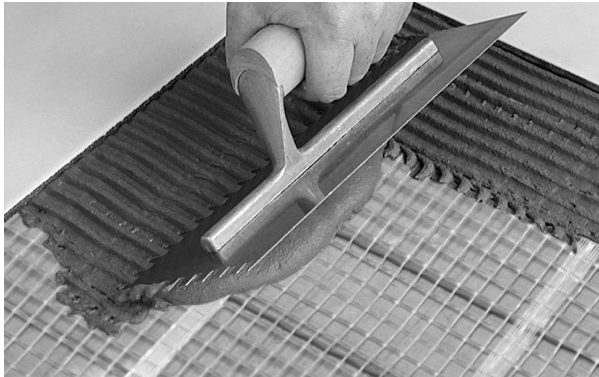
DESCRIPTION	QUANTITY & SIZE OF MATS	ORDER# *	MODEL#	AMP DRAW
15 SqFt, MasterHeat Mat Kit	(1) 15 sq. ft. mat	81012492	12000724-KIT-MH	1.5
20 SqFt, MasterHeat Mat Kit	(1) 20 sq. ft. mat	81012493	12001024-KIT-MH	2.0
25 SqFt, MasterHeat Mat Kit	(1) 25 sq. ft. mat	81012494	12001224-KIT-MH	2.5
30 SqFt, MasterHeat Mat Kit	(1) 30 sq. ft. mat	81012495	12001524-KIT-MH	3.0
35 SqFt, MasterHeat Mat Kit	(1) 35 sq. ft. mat	81012496	12001724-KIT-MH	3.5
40 SqFt, MasterHeat Mat Kit	(1) 40 sq. ft. mat	81012497	12002024-KIT-MH	4.0
45 SqFt, MasterHeat Mat Kit	(1) 45 sq. ft. mat	81012498	12002224-KIT-MH	4.5
50 SqFt, MasterHeat Mat Kit	(1) 50 sq. ft. mat	81012499	12002524-KIT-MH	5.0
60 SqFt, MasterHeat Mat Kit	(1) 60 sq. ft. mat	81012500	12003024-KIT-MH	6.0
70 SqFt, MasterHeat Mat Kit	(1) 70 sq. ft. mat	81012501	12003524-KIT-MH	7.0
80 SqFt, MasterHeat Mat Kit	(1) 80 sq. ft. mat	81012502	12004024-KIT-MH	8.0
90 SqFt, MasterHeat Mat Kit	(2) 45 sq. ft. mat	81012503	12004524-KIT-MH	9.0
100 SqFt, MasterHeat Mat Kit	(2) 50 sq. ft. mat	81012504	12005024-KIT-MH	10.0
110 SqFt, MasterHeat Mat Kit	(1) 50' & (1) 60 sq. ft.	81012505	12005524-KIT-MH	11.0
120 SqFt, MasterHeat Mat Kit	(2) 60 sq. ft. mat	81012506	12006024-KIT-MH	12.0
130 SqFt, MasterHeat Mat Kit	(1) 60' & (1) 70 sq. ft.	81012507	12006524-KIT-MH	13.0
140 SqFt, MasterHeat Mat Kit	(2) 70 sq. ft. mat	81012508	12007024-KIT-MH	14.0
150 SqFt, MasterHeat Mat Kit	(1) 70' & (1) 80 sq. ft.	81012509	12007524-KIT-MH	15.0

Masterheat Custom Mat



The fast-lane option for electric floor heating

- Order mat to fit your exact floor plan, no cuts or turns required
- Simply unroll then apply thin-set or self-leveler
- Custom made to match curves, angles, & cut-outs
- UL listed at 12 Watts/square foot



How to Order MasterHeat Custom Mat

1. Fax in a complete drawing to customer service at 206-767-6772 or call our design team toll-free at (800) 938-7925 for assistance.
2. Drawing must include the following:
 - Complete, accurate dimensions of the area to be heated. Include all wall dimensions from start to finish around the perimeter of the room
 - Thermostat location
 - Dimensions & locations of any obstructions in the heated area (vents, plug-ins, plumbing, cabinets, steps, etc.)
3. A design showing the Custom Mat layout will be faxed back for customer approval.
4. Once the design is approved, please send Master Wholesale a purchase order, including:
 - Custom Mat order number
 - Custom Mat project number
 - Customer's approved signature on the design drawing
5. Mats will ship within 5 business days after receipt of purchase order.

120 VAC MasterHeat Custom Mats

Mat Size	Order #	Model #	Amps
10	81016649	C12120010	1.0
15	81016650	C12120015	1.5
20	81016651	C12120020	2.0
25	81016652	C12120025	2.5
30	81016653	C12120030	3.0
35	81016654	C12120035	3.5
40	81016590	C12120040	4.0
45	81016655	C12120045	4.5
50	81016656	C12120050	5.0
60	81016565	C12120060	6.0
70	81016657	C12120070	7.0
80	81016658	C12120080	8.0

240 VAC MasterHeat Custom Mats

Ft2	Order #	Model #	Amps
20	81016659	C12240020	1.0
30	81016660	C12240030	1.5
40	81016661	C12240040	2.0
50	81016662	C12240050	2.5
60	81016663	C12240060	3.0
70	81016664	C12240070	3.5
80	81016665	C12240080	4.0
90	81016666	C12240090	4.5
100	81016667	C12240100	5.0
120	81016668	C12240120	6.0
140	81016669	C12240140	7.0
160	81016670	C12240160	8.0

Rectangular Mat Sizes

Pre-made mats in common room sizes.

120 VAC Pre-Built Custom Mats

Mat Size	Order#	Model#	Amps
40" x 32"	81018935	C12004032MH	0.9
40" x 48"	81018936	C12004048MH	1.4
48" x 30"	81018937	C12004830MH	1.0
60" x 36"	81013869	12000536R-MH	1.5
60" x 42"	81018938	C12006042MH	1.9
72" x 48"	81018939	C12007248MH	2.5
84" x 42"	81018940	C12008442MH	2.5
96" x 36"	81018941	C12009636MH	2.5
96" x 40"	81018942	C12009640MH	2.3
36" x 36"	81012043	C12003636MH	0.9

- Pre-built rectangular mats give even more options to heat a desired space
- Same great flexibility to adjust for curves, angles, or cut-outs if needed
- 1-step application with thin-set or self-leveler

Masterheat Shower Mats

Add a touch of luxury to your tile shower installations

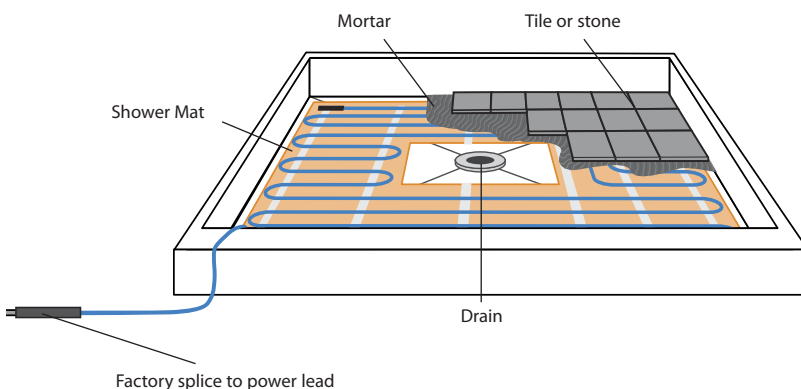
Tile & stone feel warm & soothing when installed over an operating Shower Mat. With this simple addition, you can improve comfort & floor surface drying times. Shower Mats are installed in thinset mortar above the shower pan liner. They can be individually controlled, or operated by the same control as other floor heated areas of the bathroom. Shower Mats make it easy to install a separate heating system in the shower.

- Operated by any MasterHeat thermostat
- Secure to liner with glue gun or double-sided tape
- 4" center drain cut out
- 10' power lead for installation outside of the shower
- 25 year limited warranty
- Available in two sizes to fit standard shower bases
- Custom sizes available by ordering as a MasterHeat custom mat

120 VAC Shower Mats

Shower base size	Actual mat size	Order#	Model#	Amps
36" x 60"	28" x 52"	81017077	C12120010MH-S3660	1.0
48" x 48"	39" x 39"	81017078	C12120010MH-S4848	1.0

Other sizes are available by special order



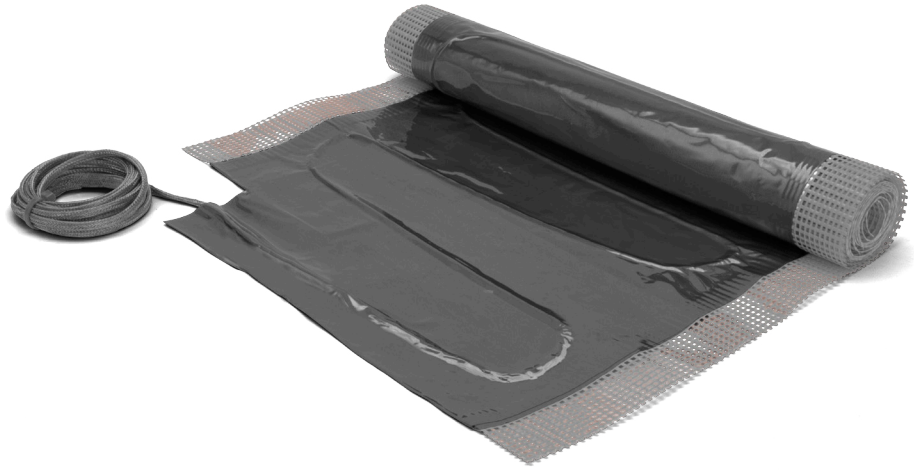
Under-the-Floor Mats



Heat your floors from underneath!



Roll out and staple mat to the floor joists.



Connect mats at junction box(es).



Install insulation.

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

Under-the-Floor mats deliver 10 watts/sq. ft. of floor area (about 34 BTU/hr/sq. ft.), which will warm wood, vinyl, laminates, or tile floor coverings about 12° to 15°F warmer than they would otherwise be. Carpeted floors will not warm up as much as other floor coverings due to the high insulation value of carpet and padding. You may experience a temperature rise in the floor of only a 6°–10°F, which may or may not meet your satisfaction. Insulation installed below the mats is essential to complete the installation.



Under-the-Floor Mats

Warm Floors with existing floor coverings!

12"-wide mats

(for joist bays spaced 12" on center)



16"-wide mats

(for joist bays spaced 16" on center)



120 VAC

Mat Size (L x W)	Order Number	Model Number	Amp Draw	Ship Wt. (lb.)
8' x 12"	81012112	1200812U2	0.6	3
10.5' x 12"	81012113	1201012U2	0.9	4
13' x 12"	81012114	1201312U2	1.1	4
16' x 12"	81012115	1201612U2	1.3	5

240 VAC

Mat Size (L x W)	Order Number	Model Number	Amp Draw	Ship Wt. (lb.)
10.5' x 12"	81012117	2401012U2	0.4	4
16' x 12"	81012118	2401612U2	0.6	5

120 VAC

Mat Size (L x W)	Order Number	Model Number	Amp Draw	Ship Wt. (lb.)
4' x 16"	81012119	1200416U2	0.4	3
6' x 16"	81012120	1200616U2	0.6	3
8' x 16"	81012121	1200816U2	0.8	3
9.5' x 16"	81012122	1200916U2	1.0	4
12' x 16"	81012123	1201216U2	1.3	4
14' x 16"	81012124	1201416U2	1.5	5
16' x 16"	81012125	1201616U2	1.7	5
18' x 16"	81012126	1201816U2	2.0	6
19.5' x 16"	81012127	1201916U2	2.1	6

240 VAC

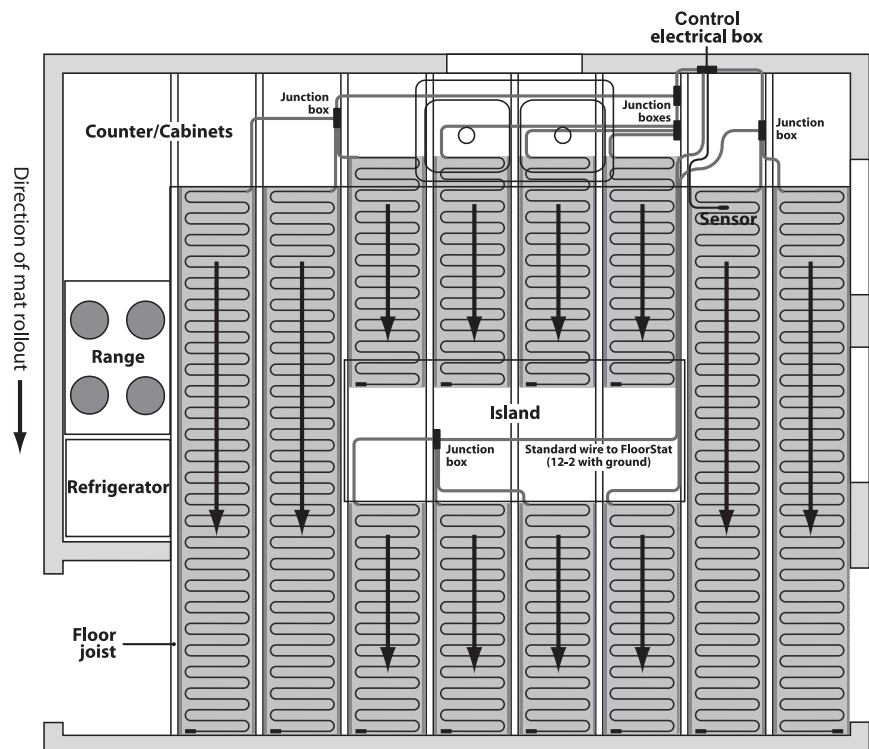
Mat Size (L x W)	Order Number	Model Number	Amp Draw	Ship Wt. (lb.)
8' x 16"	81012128	2400816U2	0.4	3
12' x 16"	81012129	2401216U2	0.6	4
16' x 16"	81012130	2401616U2	0.8	5
19.5' x 16"	81012131	2401916U2	1.0	5

Sample Kitchen Layout Using Under-the-Floor Mats

Each Under-the-Floor mat is designed to be installed in only one joist bay. **The mats cannot be cut shorter to fit a shorter joist bay or modified in any way to fill multiple joist bays.** However, more than one mat may be installed in a joist bay where there are barriers such as cross bracing or blocking.

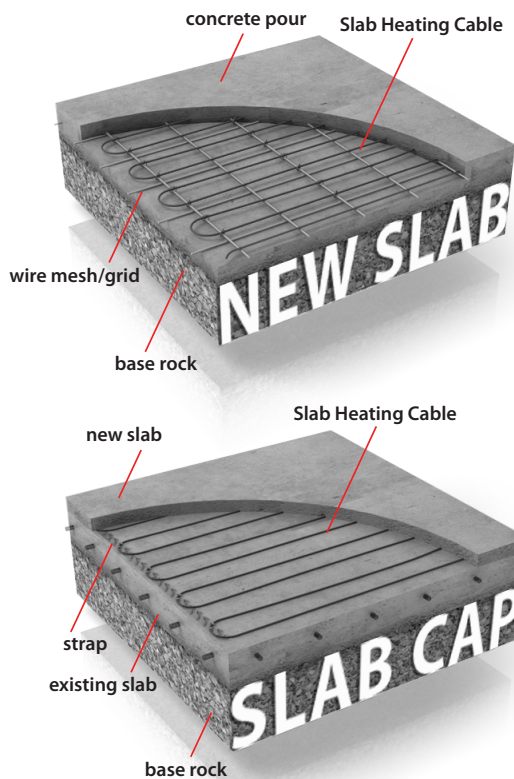
In this kitchen layout, four 9.5' x 16" and eight 4' x 16" mats are required to warm the floor area.

Caution: Do not install Under-the-Floor mats in mortar or cement, or install them in the same control zone as MasterHeat mats or MasterHeat cables. These products have different heat output, and are manufactured for different applications.



Slab Heating Cables

Electric “In-slab” cables for heated concrete floors.



Slab heating cables are engineered with the capability to produce enough BTUs to heat a slab, the space, and the surface people walk on. Regardless of size, shape, or thickness, slab heating cables are a great way to provide heat to just about any environment.

Applications.

Slab heating cables can be installed over an existing slab in a “slab cap” or in a new slab. Insulation is recommended to improve efficiency and to improve response time.

Why In Slab Heating?

- Tough polyurethane outer jacket offers superior flexibility, abrasion and tear resistance, impact resistance, resiliency, and better low temperature stability than the PVC used in other products.
- Engineered by a company with decades of experience in hydronic and electric radiant heating
- Comfortable, even heat without the drying effects of forced air heating
- Reliable, durable design
- No vents or duct work
- Maintenance-free
- Efficient Radiant Heat
- 10-year limited warranty



Voltage 120 VAC

Total Sq. ft. 2" on center (15 W/sq. ft.)	Total Sq. ft. 2-1/2" on center (12 W/sq. ft.)	Total Sq. ft. 3" on center (10 W/sq. ft.)	Order Number	Model Number	Wire Length (ft.)	Amp Draw	Ship Weight (lb.)
50	75	81015558	SH15120050-MH	146	6.3	750	4.5
66	98	81015559	SH15120066-MH	193	8.3	990	5
82	122	81015560	SH15120082-MH	241	10.3	1230	6
100	149	81015561	SH15120100-MH	294	12.5	1500	7
114	170	81015562	SH15120114-MH	336	14.3	1710	8

Voltage 240 VAC

100	149	81015563	SH15240100-MH	294	8.3	1980	9
132	196	81015564	SH15240132-MH	388	10.3	2460	12
164	243	81015565	SH15240164-MH	483	12.5	3000	14
200	297	81015566	SH15240200-MH	590	14.3	3420	16
228	339	81015567	SH15240228-MH	673	6.3	1500	7

How much should I order? Follow the instructions below to find out:

1. Calculate the total square footage of the area to be heated.
2. Subtract the square footage of built-ins (floor cabinets, toilets, islands, etc.).
3. Multiply the new square footage by .90.
4. Select the appropriate cable(s) from the table above based on the square footage and spacing you choose.

Remember that a MasterHeat Thermostat will handle up to 15 amps. Multiple cables will generally require a Relay or another MasterHeat Thermostat.

Thermostats & Relays

Five Thermostats - one for any budget.

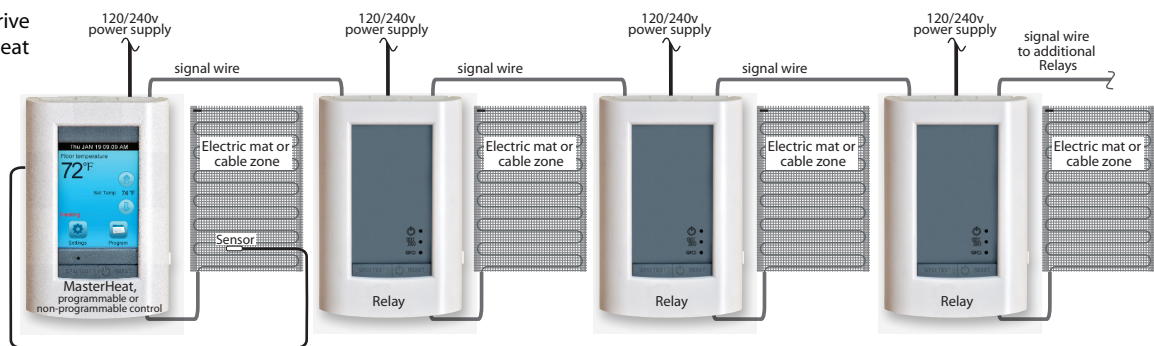
MasterHeat Thermostats & Relays

Get all the features you need to provide warmth when & where you want it! Simply select one thermostat for every area requiring individual control. Add Relays for areas that need more than 15 Amps of power. SunStats can be used with any of the electric floor warming systems in this brochure.



	W-Fi	Touchscreen	Programmable	Non-Programmable Relay	Dial
Control one zone of heating	●	●	●	-	●
Dual voltage for operating 120 or 240 VAC floor heating systems	●	●	●	●	●
Built-in GFCI (5 milliamp trip) & 15 amp relay	●	●	●	●	●
Floor sensor included	●	●	●	-	●
Floor & air temperature sensing	●	●	●	-	●
Touchscreen display	●	●	-	-	-
Adjustable brightness	●	●	-	-	-
Adjustment with buttons	-	-	●	-	-
Adjustment with dial	-	-	-	-	●
Heating indicator light	-	-	-	●	●
Display settings in English, French or Spanish	●	●	-	-	-
7-day schedule	●	●	●	-	-
Vacation override	●	●	●	-	-
Temporary hold setting	●	●	●	-	-
Automatic daylight savings time	●	●	●	-	-
SmartStart technology	●	●	●	-	-
Usage monitor	●	●	●	-	-
Remote access to settings through mobile app	●	-	-	-	-

It is possible to drive up to 10 MasterHeat Relays with one MasterHeat Control



Accessories



MasterHeat Mat and Wire Monitor - Ensure a Quality Installation!

It's a must for every job, monitoring MasterHeat Mats, Wire, or Under-the-Floor heating elements during the entire installation process and sounds an alarm if the heating elements are cut or damaged, allowing for easy repair before the heating elements are covered with finished flooring or insulation. Features include 9-volt battery power, on/off switch, green light to indicate operation, red light to indicate damage to heating elements, test button to verify proper operation, and a very loud alarm. This monitor does not eliminate the need to take OHM readings as indicated in the user manual.

Description	Qty.	Order Number	Model Number	Estimated Ship Wt. (lb.)
MasterHeat Mat & Wire Monitor	1	81007474	423250	2



Double-Sided Tape

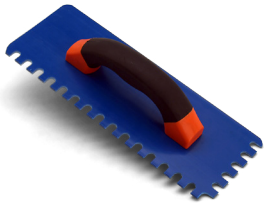
Description	Qty.	Order Number	Model Number	Estimated Ship Wt. (lb.)
Extra double-sided tape, 36 yds.	1	81000051	423275ST	0.6/roll



MasterHeat Strap

MasterHeat strap is used to hold the heating cables in place at the desired spacing. Anchor the strap at 3–4-ft. intervals across the floor. Cut using ordinary tin snips. Order one 25-ft.-long coil per 40–50 sq. ft. of heated floor area.

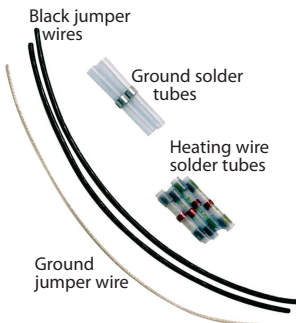
Description	Qty.	Order Number	Model Number	Estimated Ship Wt. (lb.)
MasterHeat Strap	1	81005523	321301	3



MasterHeat Plastic Trowel

The MasterHeat Plastic Trowel is recommended for applying mortar over any MasterHeat electric heating system. Consider using the 3/8" wide by 1/2" deep, U-shaped, notched plastic trowel for added peace of mind.

Description	Qty.	Order Number	Model Number	Estimated Ship Wt. (lb.)
Plastic Trowel, 3/8" x 1/2" notch	1	81007407	300400	1



Heating Wire Repair Kit

This simple and safe kit repairs heating elements that have been damaged or severed during installation. This kit is suitable for all MasterHeat floor-warming products. Kit includes materials to make one repair: 2 black jumper wires, 1 ground jumper wire, 2 ground solder tubes, and 4 heating wire solder tubes. Detailed written instructions are included.

Description	Qty.	Order Number	Model Number	Estimated Ship Wt. (lb.)
Heating Wire Repair Kit, 1 repair	1	81007142	200299	1



Extra Power Lead

MasterHeat floor-warming products come standard with a 10-ft. power lead, but can be ordered with extra-long power leads, up to a maximum of 50 ft. in length. When you place your order, let us know how long the leads need to be in order to reach the electrical box or control. We'll attach a custom power lead to fit your application. For 120 VAC and 240 VAC.

Description	Qty.	Order Number	Model Number	Estimated Ship Wt. (lb.)
Extra power lead, 120 VAC	per foot	Consult Factory to Order		0.25 lb./ft.
Extra power lead, 240 VAC	per foot	Consult Factory to Order		0.25 lb./ft.

MasterHeat

Snow Melting Mats

MasterHeat SnowMelting Mats and Cables are now approved for outdoor patio heating.

Snow Melting Mats install quickly. All you need for a typical small-to-medium size project is a control and mat.

The heating elements are surrounded with high-temperature ETFE insulation and the engineered polyurethane outer jacket tolerates 300° F asphalt and the machines that roll it in place.

Each mat holds dual heating elements on 3 inch centers on a reinforced tape grid. There's a grounded power lead on one end for a fast, single-point electrical connection.

Mats come in two energy outputs:

- 120 & some 240 VAC mats are 38 Watts/Sq. Ft.
- 208, 277 & some 240VAC mats are 50 Watts/Sq. Ft.

Standard size widths are 2 feet and 3 feet. You can order mats to cover from 10 to 112 square feet.



Simplicity sets our Mats apart from other snow melting products. We've spaced the wires for you, so installation is faster and worry-free.

- Single point connection.
- Comes in 120V, 208V, 244V, and 277V

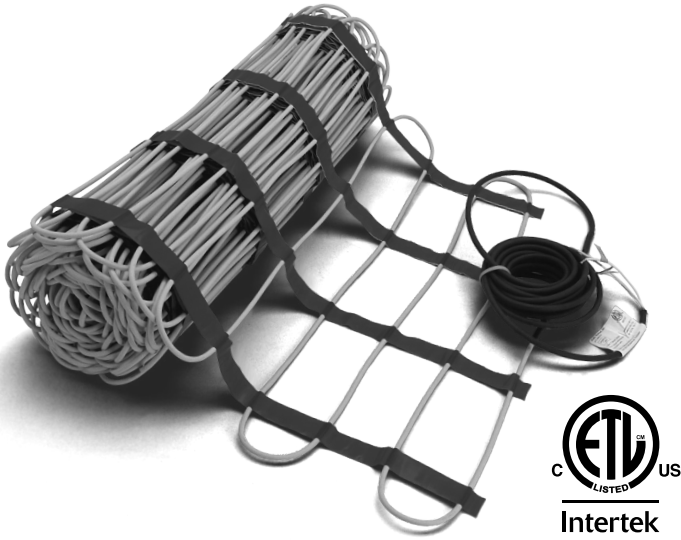
Our Wires have:

- Polyurethane outer jacket
- Foil Shield
- Braided copper ground plane
- High-temperature ETFE element covering
- Low-oxygen copper alloy



MasterHeat

Snow Melting Mats



2-ft. wide mats			120VAC	38Watts/Sq. Ft.		
Coverage (Sq.Ft.)	Dimension (L x W)	Order No.	Model No.	Amp Draw	Total Watts	Ship Wt. est. (lb.)
10	2'W x 5'L	81013188	SM3812000524-MH	3.2	380	2.0
20	2'W x 10'L	81013189	SM3812001024-MH	6.3	760	3.0
30	2'W x 15'L	81013190	SM3812001524-MH	9.5	1140	4.0
40	2'W x 20'L	81013191	SM3812002024-MH	12.7	1520	4.5
50	2'W x 25'L	81013192	SM3812002524-MH	15.8	1900	5.5
60	2'W x 30'L	81013193	SM3812003024-MH	19.0	2280	6.5

2-ft. wide mats			208VAC	50Watts/Sq. Ft.		
Coverage (Sq.Ft.)	Dimension (L x W)	Order No.	Model No.	Amp Draw	Total Watts	Ship Wt. est. (lb.)
14	2'W x 7'L	81013194	SM5020800724-MH	3.4	700	2.5
22	2'W x 11'L	81013195	SM5020801124-MH	5.3	1100	3.0
28	2'W x 14'L	81013196	SM5020801424-MH	6.7	1400	4.0
36	2'W x 18'L	81013197	SM5020801824-MH	8.7	1800	4.5
40	2'W x 20'L	81013198	SM5020802024-MH	9.6	2000	5.0
48	2'W x 24'L	81013199	SM5020802424-MH	11.5	2400	5.5
56	2'W x 28'L	81013200	SM5020802824-MH	13.5	2800	6.0
68	2'W x 34'L	81013201	SM5020803424-MH	16.3	3400	7.0
76	2'W x 38'L	81013202	SM5020803824-MH	18.3	3800	8.0
84	2'W x 42'L	81013203	SM5020804224-MH	20.2	4200	9.0
96	2'W x 48'L	81013204	SM5020804824-MH	23.1	4800	10

Choosing the right snow melting mat:

- Determine what voltage will be used:**
120 VAC, 208 VAC, or 240 VAC.
- Determine the heat output.**
The climate and amount of snowfall will dictate this choice. In general, most systems will require 50 Watts/Sq.Ft. to melt snow and ice. Some residential or light commercial systems in temperate climates, may need only 38 Watts/Sq.Ft. spacing.
- Determine the square footage of the area to be melted.** Do not include areas under built-ins like planters or similar obstructions. Stay 3-6" from edges of slabs and do not cross expansion joints if possible. Add up all the areas to be melted and round down the nearest mat size(s) to fill the area. Either 2'-wide or 3'-wide mats can be selected. More than one mat can be used to melt an area.
- Make sure the mat you select is long enough to cover the area you are snow melting.** Mats may work better for an area such as tire tracks, sidewalks or stairways. As an example, a sidewalk is 30" wide, 25' long, and has a 240 VAC power supply. The best choice for this application would be a 2' x 24', 240 VAC mat.
- Select your control(s).** Combine mats in a manner not to exceed the capacity of the electrical control selected. If using our ContactorPro controls, each area should not exceed 50-amps, since these controls are built with 50-amp contactors. Therefore, we recommend dividing the area(s) into "sub-zones", if necessary or desired, to maximize the mat amp load connected to each contactor.

2-ft. wide mats			240VAC	50Watts/Sq. Ft.		
Coverage (Sq.Ft.)	Dimension (L x W)	Order No.	Model No.	Amp Draw	Total Watts	Ship Wt. est. (lb.)
16	2'W x 8'L	81013205	SM5024000824-MH	3.3	800	2.5
24	2'W x 12'L	81013206	SM5024001224-MH	5.0	1200	3.0
32	2'W x 16'L	81013207	SM5024001624-MH	6.7	1600	4.0
40	2'W x 20'L	81013208	SM5024002024-MH	8.3	2000	4.5
48	2'W x 24'L	81013209	SM5024002424-MH	10.0	2400	5.5
56	2'W x 28'L	81013210	SM5024002824-MH	11.7	2800	6.0
64	2'W x 32'L	81013211	SM5024003224-MH	13.3	3200	6.0
72	2'W x 36'L	81013212	SM5024003624-MH	15.0	3600	8.0
80	2'W x 40'L	81013213	SM5024004024-MH	16.7	4000	8.5
88	2'W x 44'L	81013214	SM5024004424-MH	18.3	4400	9.0
96	2'W x 48'L	81013215	SM5024004824-MH	20.0	4800	10.0
104	2'W x 52'L	81013216	SM5024005224-MH	21.7	5200	10.5

3-ft. wide mats			208VAC	50Watts/Sq. Ft.		
Coverage (Sq.Ft.)	Dimension (L x W)	Order No.	Model No.	Amp Draw	Total Watts	Ship Wt. est. (lb.)
15	3'W x 5'L	81013169	SM5020800536-MH	3.6	750	2.5
30	3'W x 10'L	81013170	SM5020801036-MH	7.2	1500	4.0
45	3'W x 15'L	81013171	SM5020801536-MH	10.8	2250	5.0
60	3'W x 20'L	81013172	SM5020802036-MH	14.4	3000	6.5
75	3'W x 25'L	81013173	SM5020802536-MH	18.0	3750	8.0
90	3'W x 30'L	81013174	SM5020803036-MH	21.6	4500	9.0

3-ft. wide mats			240VAC	50Watts/Sq. Ft.		
Coverage (Sq.Ft.)	Dimension (L x W)	Order No.	Model No.	Amp Draw	Total Watts	Ship Wt. est. (lb.)
15	3'W x 5'L	81013175	SM5024000536-MH	3.1	750	2.5
30	3'W x 10'L	81013176	SM5024001036-MH	6.3	1500	4.0
45	3'W x 15'L	81013177	SM5024001536-MH	9.4	2250	5.0
60	3'W x 20'L	81013178	SM5024002036-MH	12.5	3000	6.5
75	3'W x 25'L	81013179	SM5024002536-MH	15.6	3750	8.0
90	3'W x 30'L	81013180	SM5024003036-MH	18.8	4500	9.0
105	3'W x 35'L	81013181	SM5024003536-MH	21.9	5250	10.5

MasterHeat

Snow Melting Cables

Snow Melting Cables cost less than Snow Melting Mats and give you more layout options. In both products, the heating elements are surrounded with the same high-temperature ETFE and engineered polyurethane outer jacket for long life and jobsite toughness, including installation in asphalt.

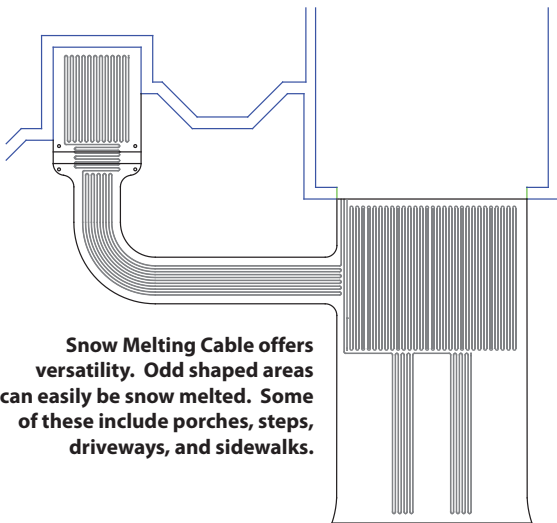
Snow Melting Cables are usually tied to reinforcing wire 3 or 4 inches on center. That provides either 50 or 38 Watts per square foot. Snow Melting Cable can go perimeter to perimeter or fill odd-shaped areas for complete snow melting coverage.

There are a lot of cable sizes in stock in four single-phase voltage options. All the cables terminate at one end with a 20' power lead so you only make one connection to your electrical source.

Snow Melting Cables save on material costs, give you more flexibility and carry a 10-year limited warranty.



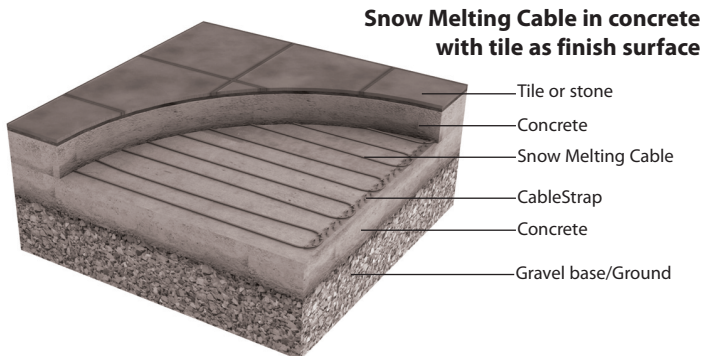
Snow Melting Cable offers versatility for odd shaped areas or last minute design changes.



Snow Melting Cable offers versatility. Odd shaped areas can easily be snow melted. Some of these include porches, steps, driveways, and sidewalks.



Public buildings need safe and easy access. Make plans for snow melting in walkways, stairs and wheelchair ramps.



MasterHeat

Snow Melting Cables



Follow these recommendations when selecting Snow Melting Cables:

- Determine what voltage will be used:** 120V, 208V, or 240V.
- Determine the heat output.** The climate and amount of snowfall will dictate this choice. In general, most systems will require 50 Watts/Sq.Ft. spacing (3" o.c.) to melt snow and ice. Some residential or light commercial systems in temperate climates, may need only 38 Watts/Sq.Ft. spacing (4" o.c.).
- Determine the square footage to be melted.** Do not include areas under built-ins like planters or similar obstructions. Stay 3-6" from edges of slabs and do not cross expansion joints if possible. Add up all the areas to be melted and round down to the nearest cable size(s) to fill the area.

Alternatively, you might want to figure the total length of cable needed. This can be better for an area such as tire track melting. As an example, a 24"-wide track with 3" o.c. Snow Melting Cable will go back and forth eight times to fill a 24"-wide track. If the tire track is 25' long, then each track will need 8 lengths x 25 feet or a total of 200 feet of cable.

More than one cable can be used to melt an area. Combine cables in a manner not to exceed the capacity of the electrical control selected. If using our ContactorPro controls, each area should not exceed 50-amps, since these controls are built with 50-amp contactors. Therefore, we recommend dividing the area(s) into "sub-zones", if necessary or desired, to maximize the cable amp load connected to each contactor.

120VAC Cable Spools							
Total Sq. ft. 3" OC (50 W/Sq.Ft.)	Total Sq.Ft 4" OC (38 W/Sq.Ft.)	Order Number	Model Number	Wire Length (ft.)	Amp Draw	Total Watts	Est. Ship Wt. (lb.)
8	10	81013229	SC50120008-MH	29	3.3	400	2.0
15	20	81013230	SC50120015-MH	59	6.3	750	2.5
20	26	81013231	SC50120020-MH	78	8.3	1000	3.0
30	39	81013232	SC50120030-MH	118	12.5	1500	3.5
40	53	81013233	SC50120040-MH	158	16.7	2000	4.5
53	69	81013234	SC50120053-MH	208	22.1	2650	5.5

208VAC Cable Spools							
Total Sq. ft. 3" OC (50 W/Sq.Ft.)	Total Sq.Ft 4" OC (38 W/Sq.Ft.)	Order Number	Model Number	Wire Length (ft.)	Amp Draw	Total Watts	Est. Ship Wt. (lb.)
14	19	81013235	SC50208014-MH	55	3.4	700	2.5
20	26	81013236	SC50208020-MH	78	4.8	1000	3.0
30	39	81013237	SC50208030-MH	118	7.2	1500	3.5
35	46	81013238	SC50208035-MH	138	8.4	1750	4.0
40	53	81013239	SC50208040-MH	158	9.6	2000	4.5
45	59	81013240	SC50208045-MH	178	10.8	2250	5.0
55	72	81013241	SC50208055-MH	218	13.2	2750	5.5
60	79	81011342	SC50208060-MH	238	14.4	3000	6.0
65	85	81011343	SC50208065-MH	257	15.6	3250	6.5
75	98	81011344	SC50208075-MH	297	18.0	3750	7.0
80	105	81011345	SC50208080-MH	317	19.2	4000	7.5
90	118	81011346	SC50208090-MH	357	21.6	4500	8.5

240VAC Cable Spools							
Total Sq. ft. 3" OC (50 W/Sq.Ft.)	Total Sq.Ft 4" OC (38 W/Sq.Ft.)	Order Number	Model Number	Wire Length (ft.)	Amp Draw	Total Watts	Est. Ship Wt. (lb.)
15	20	81013247	SC50240015-MH	59	3.1	750	2.5
25	33	81013248	SC50240025-MH	98	5.2	1250	3.0
30	39	81013249	SC50240030-MH	118	6.3	1500	3.5
40	53	81013250	SC50240040-MH	158	8.3	2000	4.5
45	59	81013251	SC50240045-MH	178	9.4	2250	5.0
55	72	81013252	SC50240055-MH	218	11.5	2750	5.5
60	79	81013253	SC50240060-MH	238	12.5	3000	6.0
65	85	81013254	SC50240065-MH	257	13.5	3250	6.5
75	98	81013255	SC50240075-MH	297	15.6	3750	7.0
80	105	81013256	SC50240080-MH	317	16.7	4000	7.5
90	118	81013257	SC50240090-MH	357	18.8	4500	8.5
105	137	81013258	SC50240105-MH	417	21.9	5250	9.5

Snow Melt Controls

Safe, reliable control for electric Snow Melting

- Compatible with Snow Melt Cables & Mats
- Automatic & manual melting options
- Pole-mount, in-slab or surface-mount sensing
- Control options from 30 to 200 Amps per unit
- 'All-in-one' control for smaller systems
- 240 VAC control with connection to ContactorPro for larger systems



Select the best control package for your installation

- Total the Amps of the Mat & Cable for each zone before comparing control options.
- Zones with less than 60 Amps can use an all-in-one control solution (MH-2C or MH-5).
- The MH-L1 to L3 kits connect to a ContactorPro panel to control zones of any size.

System Size	Operation	Sensor	Control	Required	Recommended
Up to 30 Amp	Automatic start / timed stop melting	Pole-Mount	MH-2C	-	MH-DP
Up to 60 Amp	Automatic start / timed stop melting	Pole-Mount	MH-5	-	MH-DP
Any Size	Automatic start & stop melting with slab temperature control	Surface-Mount	MH-L3	ContactorPro Panel	-
Any Size	Automatic start / timed stop melting	Pole-Mount	MH-L2	ContactorPro Panel	-
Any Size	Manual start & stop melting with slab temperature control	In-Slab	MH-L1	ContactorPro Panel	-
Any Size	Outdoor patio heating (no snow melting)	In-Slab	MH-519	ContactorPro Panel	-



Sensor at top of control

MasterHeat Snow Sensor Control MH-2C

The MH-2C operates on line voltage with a 30 Amp capacity. This all-in-one control includes a snow sensor on the top facing side. Features include automatic or manual operation, adjustable trigger temperature & an adjustable drying cycle.

Description	Qty.	Order Number	Model Number	Estimated Ship Wt. (lb.)
Snow Sensor Control 2C	1	81011699	300600	3

MasterHeat Snow Sensor Control MH-5

The MH-5 operates on line voltage with a 60 Amp capacity. This all-in-one control includes a snow sensor on the top facing side. Features include automatic or manual operation, adjustable trigger temperature & an adjustable drying cycle.

Description	Qty.	Order Number	Model Number	Estimated Ship Wt. (lb.)
Snow Sensor Control 5	1	81014247	300580	3



MasterHeat Surface Sensor Snow Melting Control Kit MH-L3

The MH-L3 kit provides the best combination of efficiency & automated operation. Kit includes a touch screen control, surface-mounted snow/ice sensor with socket & outdoor temperature sensor. This control combination reduces the cost of snow melting by operating at the lowest possible temperature to melt snow & ice. A ContactorPro panel is required to provide power for the mats, cables & control.

Description	Qty.	Order Number	Model Number	Estimated Ship Wt. (lb.)
Snow Melting Control Kit MH-L3	1	81018910	300160	6



MasterHeat Pole Sensor Snow Melting Control Kit MH-L2

The MH-L2 kit provides automatic start & timed stop operation for an electric snow melting system. The kit includes an easy-to-use touch screen control, a pole-mounted snow sensor & outdoor temperature sensor. A ContactorPro panel is required to provide power for the mats, cables & control.

Description	Qty.	Order Number	Model Number	Estimated Ship Wt. (lb.)
Snow Melting Control Kit MH-L2	1	81018911	300161	4



MasterHeat Probe Sensor Snow Melting Control Kit MH-L1

The MH-L1 kit offers manual operation & monitoring of a snow melting system using a touch-screen control. The MH-L1 Kit reduces the cost of snow melting by operating the system using the lowest possible temperature required to clear snow & ice. A ContactorPro panel is required to provide power for the mats, cables & control.

Description	Qty.	Order Number	Model Number	Estimated Ship Wt. (lb.)
Snow Melting Control Kit MH-L1	1	81018912	300162	3



MasterHeat Simple Outdoor Heating Control Kit MH-519

Extend the patio season with MasterHeat mats or cables. This control has a sensing range of -58 to 140°F (-50 to 60°C), and an adjustment range from 40 to 122°F (4.5 to 50°C). The included MH-072 sensor is used to measure the temperature under the heated outdoor slab or paver surface.

Description	Qty.	Order Number	Model Number	Estimated Ship Wt. (lb.)
Outdoor Heating Control Kit MH-519	1	81018840	3001525	2

MasterHeat ContactorPro Panels

Required when powering higher-draw MasterHeat systems. ContractorPro Panels are available in 50, 100 and 200 Amp models to operate systems with 120, 208, 240 or 277 VAC power. Panels include a 'System On' indicator light & manual override dial with a 4-hour timer. A built-in 24 VAC transformer provides power to the connected control. Each NEMA Type 1 panel measures 12" wide by 12" high by 4" deep & includes knockouts for conduit.

ContactorPro Panel	CP-50	CP-100	CP-200
Built-in Amp capacity	50	100	200
Order#	81012215	81012216	81012217
Model#	300050	300100	300200



Snow Melting Controls & Accessories



Outdoor Sensor MH-070

Replacement model for outdoor sensor included with the MasterHeat control kits.

Description	Qty.	Order Number	Model Number	Estimated Ship Wt. (lb.)
Outdoor Sensor MH-070	1	81018904	300070	1



Slab Sensor MH-072

This weather resistant sensor is designed for installation in conduit within a concrete slab or in mortar between pavers.

Description	Qty.	Order Number	Model Number	Estimated Ship Wt. (lb.)
Slab Sensor MH-072	1	81018915	500110	1



Snow / Ice Sensor MH-090

Detects the presence of snow & ice to enable fully automatic melting operation. Install within a Sensor Socket 091 once the surface is finished. Comes with 65' (20m) of wire.

Description	Qty.	Order Number	Model Number	Estimated Ship Wt. (lb.)
Snow / Ice Sensor MH-090	1	81018906	300090	1



Sensor Socket MH-091

This socket includes an insert that keeps the socket free of debris during concrete or asphalt finishing. Secure conduit to cutout area to allow for installation of the Snow / Ice Sensor 090 once the surface is finished.

Description	Qty.	Order Number	Model Number	Estimated Ship Wt. (lb.)
Sensor Socket MH-091	1	81018904	300091	4



Snow Sensor MH-095

The MH-095 enables automatic start / timed stop operation when connected to a Snow Melting Control MH-653. This pole-mounted sensor is commonly used in systems that require a sensor to be installed after the snow melt surface is finished.

Description	Qty.	Order Number	Model Number	Estimated Ship Wt. (lb.)
Snow Sensor MH-095	1	81018908	300095	1



MasterHeat Display Panel MH-DP

Connect to compatible MasterHeat Snow Sensor Controls for remote adjustment & monitoring of the system. Panel includes buttons to switch between manual on, standby (off) & automatic operation. The MasterHeat Display Panel also provides a connection for home automation systems to enable melting operation.

Description	Qty.	Order Number	Model Number	Estimated Ship Wt. (lb.)
MasterHeat Display Panel MH-DP	1	81012360	300650	1



Snow Melting Plaque

Permanent aluminum plaque to indicate where a snow melting system has been installed.

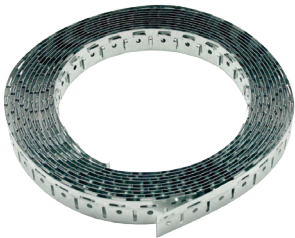
Description	Qty.	Order Number	Model Number	Estimated Ship Wt. (lb.)
Snow Melting Plaque	1	81012381	100123	2



Cable Ties

6 inch cable ties are used to tie MasterHeat mat & cable to rewire or rebar. 100 ties are included in a package.

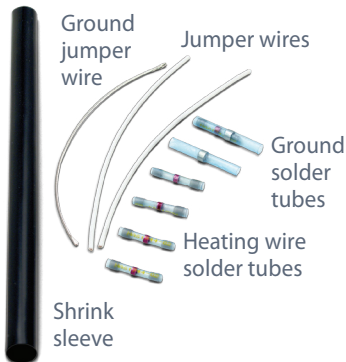
Description	Qty.	Order Number	Model Number	Estimated Ship Wt. (lb.)
Cable Ties	1	81012001	300070	1



MasterHeat Strap

MasterHeat strap is used to hold Snow Melting Cable in place at the desired spacing in applications that don't use rebar or rewire. Anchor the strap 3-4 ft. intervals across the surfacers. Cut using ordinary tin snips. Order one 25 ft.-long coil per 50-60 sq. ft. of Snow Melting.

Description	Qty.	Order Number	Model Number	Estimated Ship Wt. (lb.)
MasterHeat Strap	1	81005523	321301ST	1



Heating Wire Repair Kit

The simple and safe kit is used to repair heating elements that have been damaged during installation. It is suitable for all MasterHeat snow melting products and/or slab heating products. Kit includes materials to make one repair: jumper wires, 1 ground jumper wire, 2 ground solder tubes, 4 heating wire solder tubes, and 1 shrink sleeve. Detailed written instructions are included.

Description	Qty.	Order Number	Model Number	Estimated Ship Wt. (lb.)
Heating Wire Repair Kit	1	81012263	200400	1

Extra Long Power Leads

Contact us to order products with power leads that are longer than the standard length. We'll attach a custom power lead to fit your application.



Slab Heating Cables

- Standard lead length for is 20'
- 120 VAC or 240 VAC

Snow Melting Mats & Cables

- Standard lead length for is 20'
- 120 VAC, 208VAC, 240 VAC & 277 VAC

Consult Factory to Order



MADE IN THE U.S.A. 

The Original

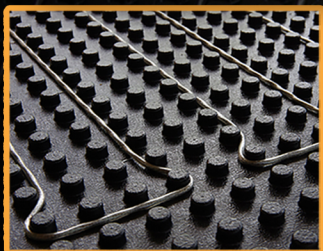
electric heat wire
installation mat system

SO FAST AND EASY THAT ANYONE CAN DO IT!

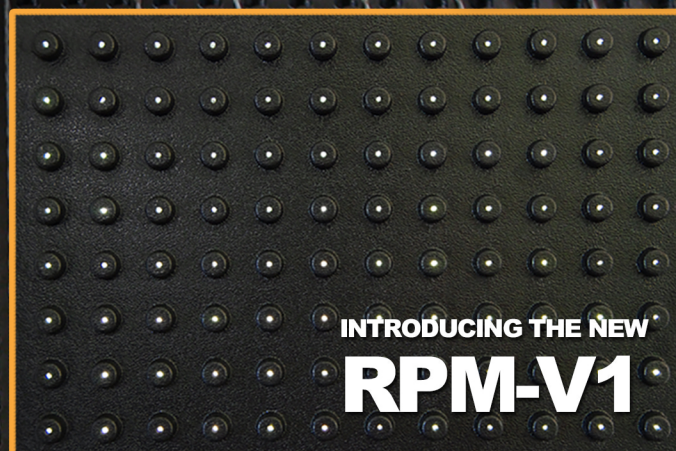
IN-FLOOR HEAT WIRE SYSTEM

WHY RPM?

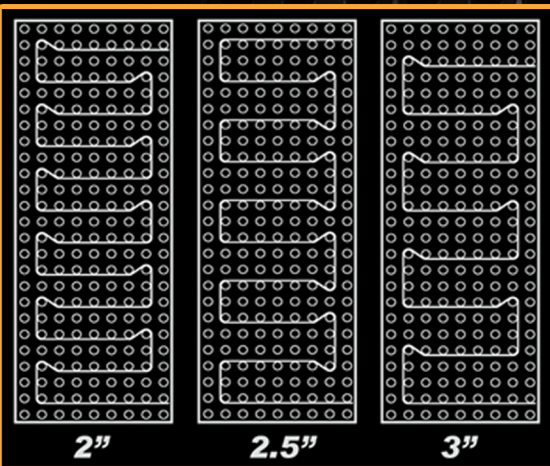
- REPLACES BACKERBOARD FOR A THINNER INSTALLATION
- TESTED "HIGH PERFORMANCE" AS A CONCRETE ANTI FRACTURE MEMBRANE
- ROBINSON FLOOR TEST CLASSIFIED AS "HEAVY" USE
- TOUGH ENOUGH FOR AUTOMOBILE SHOWROOMS / SHOPPING MALLS
- PROTECTS HEAT WIRE FROM FOOT TRAFFIC / TROWELS / TILE REMOVAL
- MAKES HEAT WIRE LAYOUT AND ADJUSTMENTS EASY
- CAN MAKE INCREMENTAL 1/2" WIRE SPACING ADJUSTMENTS
- EASY CEMENT LEVELING OVER HEAT WIRE
- CAN BE USED WITH MOSAIC TILE AS SMALL AS 1/4" X 1/4"
- EXTREMELY LIGHTWEIGHT AND CUTS WITH NO DUST
- AVAILABLE IN 5/16" AND 1/2" STUD HEIGHT
- MADE FROM 80-90% RECYCLED MATERIALS



WRAP THE WIRE AROUND A STUD AND USE A GROMMET TO SECURE THE WIRE.
100 PER BAG = APPROX 100 S/F. IF USING A COATED WIRE, RPM GROMMETS
MAY NOT BE NECESSARY



INTRODUCING THE NEW
RPM-V1



THE ALREADY EASY TO INSTALL RPM MATS JUST GOT EVEN EASIER WITH THE NEW RPM-V1. THIS NEWEST RPM MAT HAS A VENTED DESIGN WHICH ALLOWS AIR TO REACH THE VINYL ADHESIVE BELOW, ACROSS THE ENTIRE AREA OF THE MAT, BY INCORPORATING A SMALL HOLE THRU THE TOP OF EVERY STUD. THIS VENTING ALLOWS THE RPM-V1 TO BREATHE WHICH ACCELERATES THE DRY TIME OF THE ADHESIVE. ONE BENEFIT OF THE NEW DESIGN OFFERS THE USER THE ABILITY TO INSTALL THE RPM OVER A WOOD SUBSTRATE WITHOUT HAVING TO USE STAPLES. ANOTHER BENEFIT AND BIGGEST COST SAVINGS OF THE RPM-V1 IS IT ALLOWS THE MAT TO BE INSTALLED OVER CONCRETE USING THE SAME INEXPENSIVE VINYL ADHESIVE CURRENTLY RECOMMENDED FOR THE INSTALLATION OVER WOOD. PATENT PENDING.

RPM-V1: 5/16" STUD HEIGHT VENTED
RPM-330: 5/16" STUD HEIGHT
RPM-500: 1/2" STUD HEIGHT
LIGHTWEIGHT: 1.8 LBS PER MAT
20" W X 44" L = 1 MAT COVERS 6.11 S/F
HEAVY DUTY 60 MIL ABS PLASTIC

WWW.MASTERHEAT.COM

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