

Electric Floor Heating & Snow Melting



HeatWeave Mats



WarmWire Cable



UnderFloor Mats



ProMelt Mats

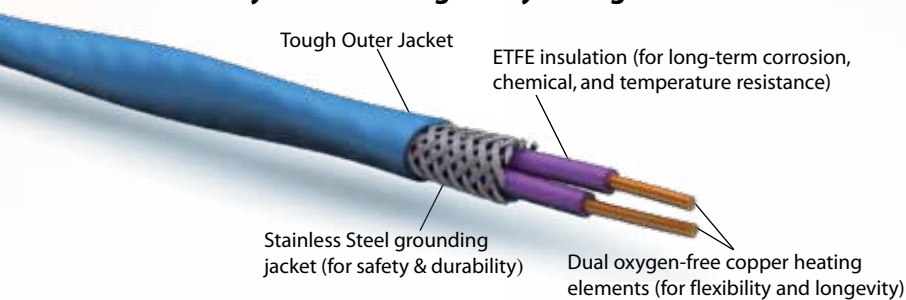
Why HeatWeave?

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 ProMelt Mats and Cables are easy to install and you don't need a mechanical room.

You can rest easy knowing that Watts Radiant builds a better, longer-lasting product than anyone. 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. Our parent company was founded on quality and has been making safety equipment for 135 years.

Anatomy of a world-class heating wire. Compare it to any other heating wire you might consider.



Twisted dual wire configuration allows for single point connection and ultra-low EMF (electromagnetic field)

Code Listings
and Standards



HeatWeave Mats

Roll out HeatWeave 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. HeatWeave is most popular in baths, kitchens and entries.

WarmWire Cable

WarmWire is now built with a tough, water-proof jacket. It costs less than HeatWeave 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.

UnderFloor Mats

Install HeatWeave UnderFloor 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.



ProMelt Cables & Mats

Our 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. Melt your troubles away!

Mat INSTALLATION Kit



Everything you need for a quick and simple installation.

Each kit contains:

- 2' wide HeatWeave Mat(s)**
- SunStat Programmable Thermostat**
- LoudMouth™ Installation Monitor**
- Double-sided tape**
- Installation Manual and DVD**

1. **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 in one step.
2. **The industry's first single power lead construction** makes mats easy to install and simpler to connect to the control.
3. **The industry's highest-quality heating wire** using ETFE high-temperature insulation, XLPE (PEX) jacket, and oxygen-free copper heating elements for longevity.
4. **The industry's first twisted, twin-wire construction** creates ultra-low EMF.
5. **120-VAC and 240-VAC models available** for small residential to commercial applications.
6. **The industry's only shielded and fully grounded 10-ft. power lead** provides safety and jobsite durability.

120 VOLT MAT KITS

| Description | Quantity & Size of mat | Order Number | Model Number | Amp Draw | Ship wt. (lb.) |
|-----------------------------------|--------------------------|--------------|-----------------|----------|----------------|
| 10 SqFt, HeatWeave Mat Kit, 120V | (1) 10 sq. ft. mat | 81011201 | 12000524-KIT-HW | 1.0 | 8 |
| 15 SqFt, HeatWeave Mat Kit, 120V | (1) 15 sq. ft. mat | 81011202 | 12000724-KIT-HW | 1.5 | 8 |
| 20 SqFt, HeatWeave Mat Kit, 120V | (1) 20 sq. ft. mat | 81011203 | 12001024-KIT-HW | 2.0 | 9 |
| 25 SqFt, HeatWeave Mat Kit, 120V | (1) 25 sq. ft. mat | 81011204 | 12001224-KIT-HW | 2.5 | 10 |
| 30 SqFt, HeatWeave Mat Kit, 120V | (1) 30 sq. ft. mat | 81011205 | 12001524-KIT-HW | 3.0 | 12 |
| 35 SqFt, HeatWeave Mat Kit, 120V | (1) 35 sq. ft. mat | 81011206 | 12001724-KIT-HW | 3.5 | 12 |
| 40 SqFt, HeatWeave Mat Kit, 120V | (1) 40 sq. ft. mat | 81011207 | 12002024-KIT-HW | 4.0 | 12 |
| 45 SqFt, HeatWeave Mat Kit, 120V | (1) 45 sq. ft. mat | 81011208 | 12002224-KIT-HW | 4.5 | 13 |
| 50 SqFt, HeatWeave Mat Kit, 120V | (1) 50 sq. ft. mat | 81011209 | 12002524-KIT-HW | 5.0 | 13 |
| 60 SqFt, HeatWeave Mat Kit, 120V | (1) 60 sq. ft. mat | 81011210 | 12003024-KIT-HW | 6.0 | 14 |
| 70 SqFt, HeatWeave Mat Kit, 120V | (1) 70 sq. ft. mat | 81011211 | 12003524-KIT-HW | 7.0 | 18 |
| 80 SqFt, HeatWeave Mat Kit, 120V | (1) 80 sq. ft. mat | 81011212 | 12004024-KIT-HW | 8.0 | 21 |
| 90 SqFt, HeatWeave Mat Kit, 120V | (2) 45 sq. ft. mat | 81011213 | 12004524-KIT-HW | 9.0 | 21 |
| 100 SqFt, HeatWeave Mat Kit, 120V | (2) 50 sq. ft. mat | 81011214 | 12005024-KIT-HW | 10.0 | 21 |
| 110 SqFt, HeatWeave Mat Kit, 120V | (1) 50' & (1) 60 sq. ft. | 81011215 | 12005524-KIT-HW | 11.0 | 22 |
| 120 SqFt, HeatWeave Mat Kit, 120V | (2) 60 sq. ft. mat | 81011216 | 12006024-KIT-HW | 12.0 | 23 |
| 130 SqFt, HeatWeave Mat Kit, 120V | (1) 60' & (1) 70 sq. ft. | 81011217 | 12006524-KIT-HW | 13.0 | 24 |
| 140 SqFt, HeatWeave Mat Kit, 120V | (2) 70 sq. ft. mat | 81011218 | 12007024-KIT-HW | 14.0 | 25 |
| 150 SqFt, HeatWeave Mat Kit, 120V | (1) 70' & (1) 80 sq. ft. | 81011219 | 12007524-KIT-HW | 15.0 | 27 |

240 VOLT MAT KITS

| Description | Quantity & Size of mat | Order Number | Model Number | Amp Draw | Ship wt. (lb.) |
|-----------------------------------|-------------------------------------|--------------|-----------------|----------|----------------|
| 160 SqFt, HeatWeave Mat Kit, 240V | (2) 80 sq. ft. mats | 81013735 | 24008024-KIT-HW | 8.0 | 31 |
| 170 SqFt, HeatWeave Mat Kit, 240V | (1) 80 sq. ft. (1) 90 sq. ft. mat | 81013736 | 24008524-KIT-HW | 8.5 | 33 |
| 180 SqFt, HeatWeave Mat Kit, 240V | (2) 90 sq. ft. mats | 81013737 | 24009024-KIT-HW | 9.0 | 35 |
| 190 SqFt, HeatWeave Mat Kit, 240V | (1) 90 sq. ft. (1) 100 sq. ft. mat | 81013738 | 24009524-KIT-HW | 9.5 | 37 |
| 200 SqFt, HeatWeave Mat Kit, 240V | (2) 100 sq. ft. mats | 81013739 | 24010024-KIT-HW | 10.0 | 39 |
| 220 SqFt, HeatWeave Mat Kit, 240V | (1) 100 sq. ft. (1) 120 sq. ft. mat | 81013740 | 24011024-KIT-HW | 11.0 | 41 |
| 240 SqFt, HeatWeave Mat Kit, 240V | (2) 120 sq. ft. mats | 81013741 | 24012024-KIT-HW | 12.0 | 43 |
| 260 SqFt, HeatWeave Mat Kit, 240V | (1) 120 sq. ft. (1) 140 sq. ft. mat | 81013742 | 24013024-KIT-HW | 13.0 | 45 |
| 280 SqFt, HeatWeave Mat Kit, 240V | (2) 140 sq. ft. mats | 81013743 | 24014024-KIT-HW | 14.0 | 47 |
| 300 SqFt, HeatWeave Mat Kit, 240V | (1) 140 sq. ft. (1) 160 sq. ft. mat | 81013744 | 24015024-KIT-HW | 15.0 | 49 |

WarmWire



Now Approved for Showers

INSTALLATION

Kit



Each kit contains:

- SunStat™ Programmable Thermostat**
- 1 or more Spools of WarmWire®**
- 1 or more Boxes of Strap**
- 1 or more Rolls of Double-sided Tape**
- LoudMouth™ Installation Monitor**
- Installation Manual and DVD**

There are 3 WarmWire spacing choices:

- **2" on center delivers 15 watts per sq. ft.**
For high heat loss areas.
- **2.5" on center delivers 12 watts per sq. ft.**
For bathrooms, kitchens, or living areas.
- **3" on center delivers 10 watts per sq. ft.**
For low heat loss areas.

120 VOLT WIRE KITS

| Description | Quantity & Size of Cables | Order Number | Model Number | Sq. ft. at 2.0" o.c. | Sq. ft. at 2.5" o.c. | Sq. ft. at 3.0" o.c. | Amp Draw | Ship wt. (lb.) |
|------------------------|---------------------------|--------------|------------------|----------------------|----------------------|----------------------|----------|----------------|
| 10 SqFt, WarmWire Kit | (1) 10 sq. ft. | 81011220 | 120010WD-KIT-HW | 8 | 10 | 12 | 1.0 | 6 |
| 15 SqFt, WarmWire Kit | (1) 15 sq. ft. | 81011221 | 120015WD-KIT-HW | 12 | 15 | 18 | 1.5 | 7 |
| 20 SqFt, WarmWire Kit | (1) 20 sq. ft. | 81011222 | 120020WD-KIT-HW | 16 | 20 | 24 | 2.0 | 8 |
| 25 SqFt, WarmWire Kit | (1) 25 sq. ft. | 81011223 | 120025WD-KIT-HW | 20 | 25 | 30 | 2.5 | 9 |
| 30 SqFt, WarmWire Kit | (1) 30 sq. ft. | 81011224 | 120030WD-KIT-HW | 24 | 30 | 36 | 3.0 | 10 |
| 35 SqFt, WarmWire Kit | (1) 35 sq. ft. | 81011225 | 120035WD-KIT-HW | 28 | 35 | 42 | 3.5 | 11 |
| 40 SqFt, WarmWire Kit | (1) 40 sq. ft. | 81011226 | 120040WD-KIT-HW | 32 | 40 | 48 | 4.0 | 12 |
| 45 SqFt, WarmWire Kit | (1) 45 sq. ft. | 81011227 | 120045WD-KIT-HW | 36 | 45 | 54 | 4.5 | 13 |
| 50 SqFt, WarmWire Kit | (1) 50 sq. ft. | 81011228 | 120050WD-KIT-HW | 40 | 50 | 60 | 5.0 | 14 |
| 60 SqFt, WarmWire Kit | (1) 60 sq. ft. | 81011229 | 120060WD-KIT-HW | 48 | 60 | 72 | 6.0 | 15 |
| 70 SqFt, WarmWire Kit | (1) 70 sq. ft. | 81011230 | 120070WD-KIT-HW | 56 | 70 | 84 | 7.0 | 16 |
| 80 SqFt, WarmWire Kit | (1) 80 sq. ft. | 81011231 | 120080WD-KIT-HW | 64 | 80 | 96 | 8.0 | 17 |
| 90 SqFt, WarmWire Kit | (1) 90 sq. ft. | 81011232 | 120090WD-KIT-HW | 72 | 90 | 108 | 9.0 | 19 |
| 100 SqFt, WarmWire Kit | (1) 100 sq. ft. | 81011233 | 1200100WD-KIT-HW | 80 | 100 | 120 | 10.0 | 20 |
| 110 SqFt, WarmWire Kit | (1) 50 (1) 60 sq. ft. | 81011234 | 1200110WD-KIT-HW | 88 | 110 | 132 | 11.0 | 20 |
| 120 SqFt, WarmWire Kit | (2) 60 sq. ft. | 81011235 | 1200120WD-KIT-HW | 96 | 120 | 144 | 12.0 | 21 |
| 130 SqFt, WarmWire Kit | (1) 60 (1) 70 sq. ft. | 81011236 | 1200130WD-KIT-HW | 104 | 130 | 156 | 13.0 | 21 |
| 140 SqFt, WarmWire Kit | (2) 70 sq. ft. | 81011237 | 1200140WD-KIT-HW | 112 | 140 | 168 | 14.0 | 22 |
| 150 SqFt, WarmWire Kit | (1) 70 (1) 80 sq. ft. | 81011238 | 1200150WD-KIT-HW | 120 | 150 | 180 | 15.0 | 23 |

240 VOLT WIRE KITS Note: WarmWire Kits larger than 300 Sq.Ft. include a SunStat Relay, as well as a SunStat Pro thermostat.

| Description | Quantity & Size of Cables | Order Number | Model Number | Sq. ft. at 2.0" o.c. | Sq. ft. at 2.5" o.c. | Sq. ft. at 3.0" o.c. | Amp Draw | Ship wt. (lb.) |
|------------------------|---------------------------|--------------|-----------------|----------------------|----------------------|----------------------|----------|----------------|
| 160 SqFt, WarmWire Kit | (2) 80 sq. ft. | 81011239 | 240160WD-KIT-HW | 128 | 160 | 192 | 8.0 | 24 |
| 170 SqFt, WarmWire Kit | (1) 80 (1) 90 sq. ft. | 81011240 | 240170WD-KIT-HW | 136 | 170 | 204 | 8.5 | 25 |
| 180 SqFt, WarmWire Kit | (2) 90 sq. ft. | 81011241 | 240180WD-KIT-HW | 144 | 180 | 216 | 9.0 | 26 |
| 190 SqFt, WarmWire Kit | (1) 90 (1) 100 sq. ft. | 81011242 | 240190WD-KIT-HW | 152 | 190 | 228 | 9.5 | 28 |
| 200 SqFt, WarmWire Kit | (2) 100 sq. ft. | 81011243 | 240200WD-KIT-HW | 160 | 200 | 240 | 10.0 | 30 |
| 220 SqFt, WarmWire Kit | (1) 100 (1) 120 sq. ft. | 81011244 | 240220WD-KIT-HW | 176 | 220 | 264 | 11.0 | 32 |
| 240 SqFt, WarmWire Kit | (2) 120 sq. ft. | 81011245 | 240240WD-KIT-HW | 192 | 240 | 288 | 12.0 | 34 |
| 260 SqFt, WarmWire Kit | (1) 120 (1) 140 sq. ft. | 81011246 | 240260WD-KIT-HW | 208 | 260 | 312 | 13.0 | 37 |
| 280 SqFt, WarmWire Kit | (2) 140 sq. ft. | 81011247 | 240280WD-KIT-HW | 224 | 280 | 336 | 14.0 | 39 |
| 300 SqFt, WarmWire Kit | (1) 140 (1) 160 sq. ft. | 81011248 | 240300WD-KIT-HW | 240 | 300 | 360 | 15.0 | 42 |
| 320 SqFt, WarmWire Kit | (2) 160 sq. ft. | 81011249 | 240320WD-KIT-HW | 256 | 320 | 384 | 16.0 | 46 |
| 340 SqFt, WarmWire Kit | (1) 160 (1) 180 sq. ft. | 81011250 | 240340WD-KIT-HW | 272 | 340 | 408 | 17.0 | 48 |
| 360 SqFt, WarmWire Kit | (2) 180 sq. ft. | 81011251 | 240360WD-KIT-HW | 288 | 360 | 432 | 18.0 | 52 |
| 380 SqFt, WarmWire Kit | (1) 180 (1) 200 sq. ft. | 81011252 | 240380WD-KIT-HW | 304 | 380 | 456 | 19.0 | 54 |
| 400 SqFt, WarmWire Kit | (2) 200 sq. ft. | 81011253 | 240400WD-KIT-HW | 320 | 400 | 480 | 20.0 | 57 |
| 420 SqFt, WarmWire Kit | (3) 140 sq. ft. | 81011254 | 240420WD-KIT-HW | 336 | 420 | 504 | 21.0 | 59 |
| 440 SqFt, WarmWire Kit | (2) 140 (1) 160 sq. ft. | 81011255 | 240440WD-KIT-HW | 352 | 440 | 528 | 22.0 | 62 |
| 460 SqFt, WarmWire Kit | (1) 140 (2) 160 sq. ft. | 81011256 | 240460WD-KIT-HW | 368 | 460 | 552 | 23.0 | 64 |
| 480 SqFt, WarmWire Kit | (4) 120 sq. ft. | 81011257 | 240480WD-KIT-HW | 384 | 480 | 576 | 24.0 | 66 |
| 500 SqFt, WarmWire Kit | (3) 120 (1) 140 sq. ft. | 81011258 | 240500WD-KIT-HW | 400 | 500 | 600 | 25.0 | 68 |

HeatWeave Mats



Roll out mat and secure to the floor.

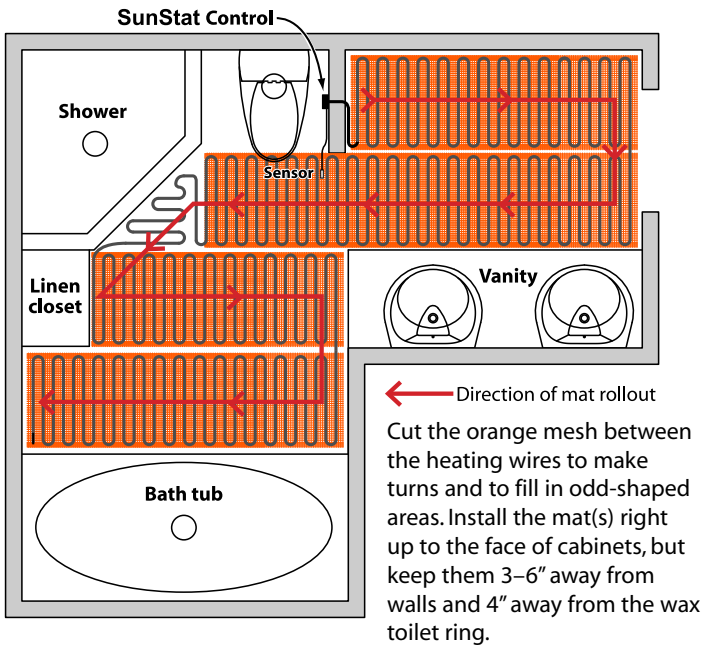


Trowel thin-set and lay tile.

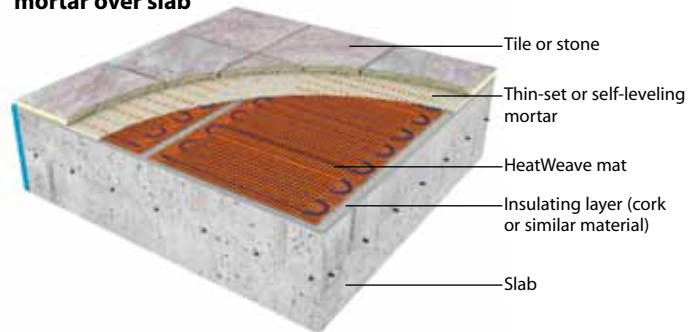
HeatWeave is the safest and easiest-to-install heating mat in the industry. It is Listed by UL® for the U.S. and Canada, and tested by Tile Council of North America for all residential and moderate commercial applications. All mats have the “S-pattern” wire construction and produce 12 watts/sq. ft. HeatWeave offers the largest selection of mats in the industry with over 40 sizes manufactured in three widths (1, 2, and 3 ft. wide) in lengths covering up to 160 sq. ft. — with one mat! Just a few benefits of HeatWeave mats are:

- 1. 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.
- 2. The industry's first single power lead construction** makes mats easy to install and simpler to connect to the control.
- 3. The industry's highest-quality heating wire** using ETFE high-temperature insulation, XLPE (PEX) jacket, and oxygen-free copper heating elements for corrosion resistance, temperature resistance, abrasion resistance, and longevity.
- 4. The industry's first twisted, twin-wire construction** creates ultra-low EMF.
- 5. 120-VAC and 240-VAC models** available for small residential to large commercial applications.
- 6. The industry's only shielded and fully grounded** 10-ft. power lead provides safety and jobsite durability. Power leads are color-coded for 120 VAC or 240 VAC.

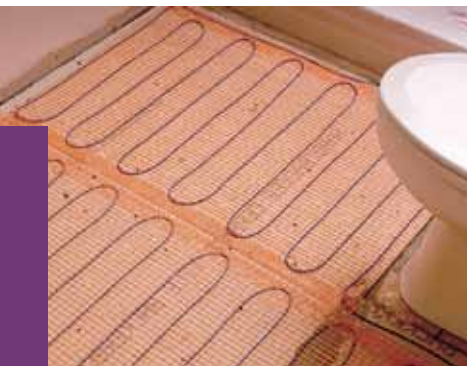
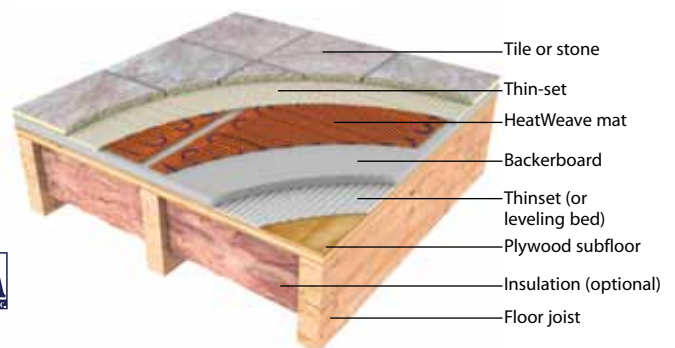
HeatWeave mat bathroom layout One mat: 2 ft. x 25 ft.



HeatWeave mat in thin-set mortar over slab



HeatWeave mat in thin-set on backerboard on frame floor



It's easy to design a HeatWeave system.

For fast and easy sizing, go to www.wattsradiant.com.

Evaluate how many square feet of floor are to be heated. Do not put under cabinets or appliances. Leave the mat at least 4" away from the toilet wax ring and 4"-6" away from walls. Do install up to the toe-kick in front of kitchen or bath cabinets, and in front of a toilet and/or shower and tub, so toes will stay warm.

Select one mat, or a combination of mats, to fill the area. Remember, multiple mats of the same voltage can be wired together to fill larger areas.

How much HeatWeave should I order?

1. Calculate total wall-to-wall area of the room. Subtract the square footage of all built-ins (tub, toilet, cabinets, etc.).
(Total area – built-ins) = (_____ – _____) = _____ sq. ft.

2. Multiply this area by 0.90. Round down to the nearest 5 sq. ft. This is the heated area.
_____ x 0.90 = _____ sq. ft. of heated area.

3. Select the appropriate mat(s) based on the square footage of heated area, from the tables below, or choose one of our HeatWeave Mat Kits on page 4.



3-ft.-wide mats 120 VAC

| Coverage (Sq.Ft.) | Mat Size (W x L) | Order Number | Model Number | Amp Draw | REET Value | Ship wt. (lb.) |
|-------------------|------------------|--------------|--------------|----------|------------|----------------|
| 15 | 3' x 5' | 81008802 | 12000536HW | 1.5 | 0.13 | 4 |
| 20 | 3' x 6'-8" | 81008803 | 12000636HW | 2.0 | 0.13 | 4 |
| 25 | 3' x 8'-4" | 81008804 | 12000836HW | 2.5 | 0.10 | 5 |
| 30 | 3' x 10' | 81008805 | 12001036HW | 3.0 | 0.06 | 5 |
| 45 | 3' x 15' | 81008806 | 12001536HW | 4.5 | 0.11 | 7 |
| 60 | 3' x 20' | 81008807 | 12002036HW | 6.0 | 0.13 | 9 |



3-ft.-wide mats 240 VAC

| Coverage (Sq.Ft.) | Mat Size (W x L) | Order Number | Model Number | Amp Draw | REET Value | Ship wt. (lb.) |
|-------------------|------------------|--------------|--------------|----------|------------|----------------|
| 30 | 3' x 10' | 81008808 | 24001036HW | 1.5 | 0.13 | 5 |
| 40 | 3' x 13'-4" | 81008809 | 24001336HW | 2.0 | 0.13 | 6 |
| 50 | 3' x 16'-8" | 81008810 | 24001636HW | 2.5 | 0.10 | 7 |
| 60 | 3' x 20' | 81008811 | 24002036HW | 3.0 | 0.06 | 9 |
| 90 | 3' x 30' | 81008812 | 24003036HW | 4.5 | 0.11 | 15 |
| 120 | 3' x 40' | 81008813 | 24004036HW | 6.0 | 0.13 | 19 |



2-ft.-wide mats 120 VAC

| Coverage (Sq.Ft.) | Mat Size (W x L) | Order Number | Model Number | Amp Draw | REET Value | Ship wt. (lb.) |
|-------------------|------------------|--------------|--------------|----------|------------|----------------|
| 10 | 2' x 5' | 81008778 | 12000524HW | 1.0 | 0.11 | 3 |
| 15 | 2' x 7'-6" | 81008779 | 12000724HW | 1.5 | 0.13 | 4 |
| 20 | 2' x 10' | 81008780 | 12001024HW | 2.0 | 0.13 | 4 |
| 25 | 2' x 12'-6" | 81008781 | 12001224HW | 2.5 | 0.10 | 5 |
| 30 | 2' x 15' | 81008782 | 12001524HW | 3.0 | 0.06 | 5 |
| 35 | 2' x 17'-6" | 81008783 | 12001724HW | 3.5 | 0.13 | 6 |
| 40 | 2' x 20' | 81008784 | 12002024HW | 4.0 | 0.10 | 6 |
| 45 | 2' x 22'-6" | 81008785 | 12002224HW | 4.5 | 0.11 | 7 |
| 50 | 2' x 25' | 81008786 | 12002524HW | 5.0 | 0.14 | 7 |
| 60 | 2' x 30' | 81008787 | 12003024HW | 6.0 | 0.13 | 9 |
| 70 | 2' x 35' | 81008788 | 12003524HW | 7.0 | 0.13 | 11 |
| 80 | 2' x 40' | 81008789 | 12004024HW | 8.0 | 0.19 | 13 |



2-ft.-wide mats 240 VAC

| Coverage (Sq.Ft.) | Mat Size (W x L) | Order Number | Model Number | Amp Draw | REET Value | Ship wt. (lb.) |
|-------------------|------------------|--------------|--------------|----------|------------|----------------|
| 20 | 2' x 10' | 81008790 | 24001024HW | 1.0 | 0.11 | 4 |
| 30 | 2' x 15' | 81008791 | 24001524HW | 1.5 | 0.13 | 5 |
| 40 | 2' x 20' | 81008792 | 24002024HW | 2.0 | 0.13 | 6 |
| 50 | 2' x 25' | 81008793 | 24002524HW | 2.5 | 0.10 | 7 |
| 60 | 2' x 30' | 81008794 | 24003024HW | 3.0 | 0.06 | 9 |
| 70 | 2' x 35' | 81008795 | 24003524HW | 3.5 | 0.13 | 11 |
| 80 | 2' x 40' | 81008796 | 24004024HW | 4.0 | 0.10 | 13 |
| 90 | 2' x 45' | 81008797 | 24004524HW | 4.5 | 0.11 | 15 |
| 100 | 2' x 50' | 81008798 | 24005024HW | 5.0 | 0.14 | 17 |
| 120 | 2' x 60' | 81008799 | 24006024HW | 6.0 | 0.13 | 19 |
| 140 | 2' x 70' | 81008800 | 24007024HW | 7.0 | 0.13 | 21 |
| 160 | 2' x 80' | 81008801 | 24008024HW | 8.0 | 0.19 | 23 |



1-ft.-wide mats 120 VAC

| Coverage (Sq.Ft.) | Mat Size (W x L) | Order Number | Model Number | Amp Draw | REET Value | Ship wt. (lb.) |
|-------------------|------------------|--------------|--------------|----------|------------|----------------|
| 10 | 1' x 10' | 81008771 | 12001012HW | 1.0 | 0.11 | 3 |
| 15 | 1' x 15' | 81008772 | 12001512HW | 1.5 | 0.13 | 4 |
| 20 | 1' x 20' | 81008773 | 12002012HW | 2.0 | 0.13 | 4 |
| 25 | 1' x 25' | 81008774 | 12002512HW | 2.5 | 0.10 | 5 |

Discontinued products include 1' x 30', 120-VAC 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. For more information about EMF and REET testing, please visit www.wattsradiant.com.

WarmWire Cable

WarmWire® is a simple, economical way to warm floors and provide years of lasting comfort. It will warm all kinds of floor coverings: ceramic & porcelain tile, stone, wood, laminates, vinyl, or carpet.

Lay out and attach the CableStraps. Fasten the WarmWire to the CableStraps as you weave it back and forth across the floor. Put down a layer of thin-set mortar and set your tile or stone. Install a layer of self-leveling cement over the cables for hardwood, laminate, vinyl, or carpeted floors. Our installation manual and DVD shows all the details.

Kitchen/Breakfast Layout

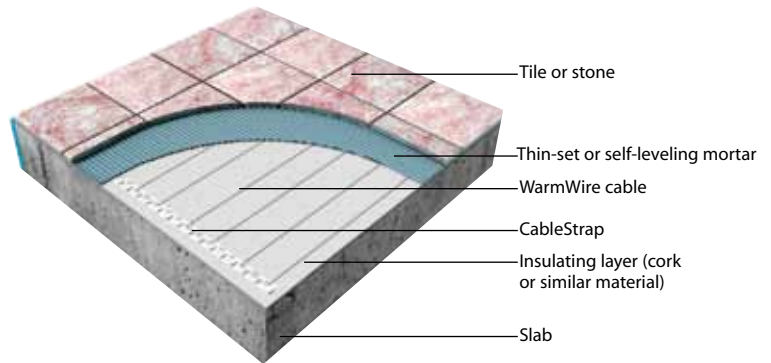
Due to differences in heat loss between the kitchen and breakfast areas, two different spacings were used: 3" on center in the kitchen, and 2" on center in the breakfast area due to the higher heat loss.



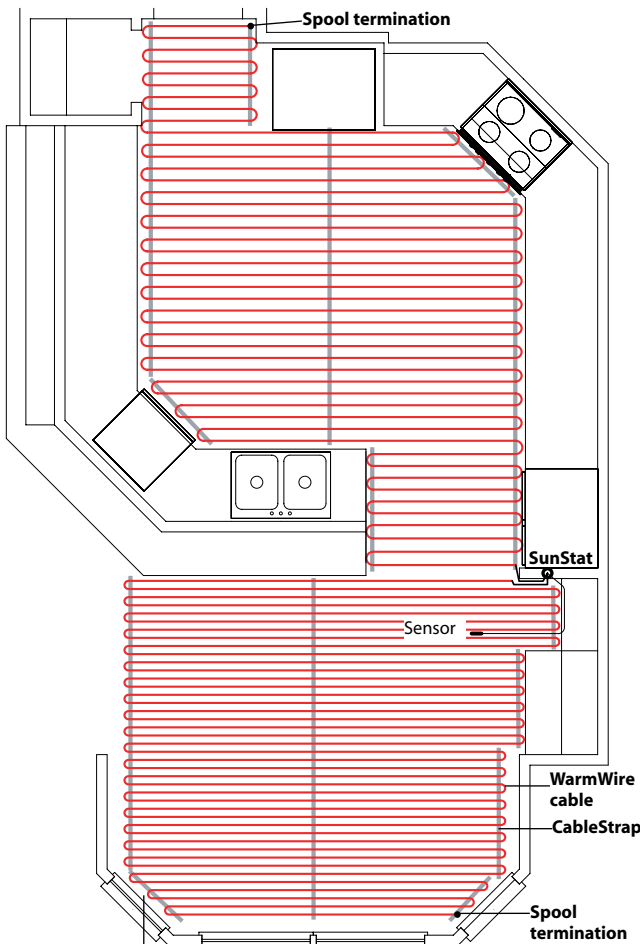
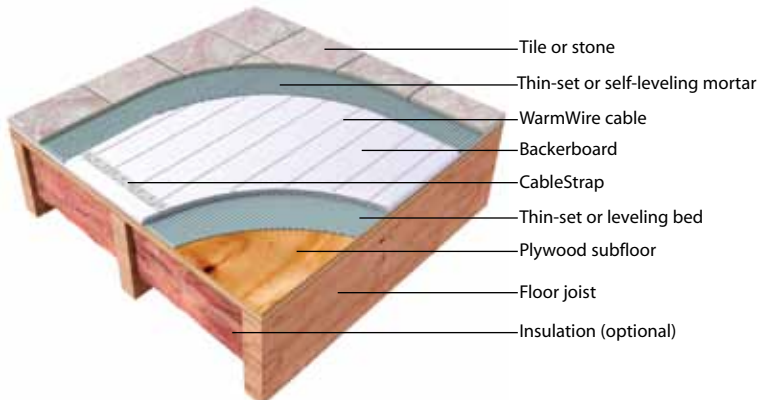
WarmWire is now UL listed for installation in shower floors and benches! See manual for details.



WarmWire in thin-set mortar over slab



WarmWire in thin-set on backer board on frame floor



Warming unusual shapes in a floor plan, including these 45° angles, is easily accomplished with WarmWire.

WarmWire is easily sized for any project.

For fast and easy sizing, go to www.wattsradiant.com.



- 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 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", 2.5", 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.
 - 2.5" 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.
- 2.5" on center is the most commonly used spacing. This spacing equals the heat output of HeatWeave mats.**

WarmWire Spools 120VAC

| 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 | REET Value* | Ship Weight (lb.) |
|---|---|---|--------------|--------------|-------------------|----------|-------------|-------------------|
| 8 | 10 | 12 | 81008854 | 120010WDHW | 47 | 1.0 | 0.16 | 2 |
| 12 | 15 | 18 | 81008855 | 120015WDHW | 71 | 1.5 | 0.14 | 2.5 |
| 16 | 20 | 24 | 81008856 | 120020WDHW | 94 | 2.0 | 0.16 | 3.0 |
| 20 | 25 | 30 | 81008857 | 120025WDHW | 118 | 2.5 | 0.14 | 3.0 |
| 24 | 30 | 36 | 81008858 | 120030WDHW | 141 | 3.0 | 0.16 | 3.5 |
| 28 | 35 | 42 | 81008859 | 120035WDHW | 165 | 3.5 | 0.14 | 3.5 |
| 32 | 40 | 48 | 81008860 | 120040WDHW | 188 | 4.0 | 0.14 | 4.0 |
| 36 | 45 | 54 | 81008861 | 120045WDHW | 212 | 4.5 | 0.15 | 4.5 |
| 40 | 50 | 60 | 81008862 | 120050WDHW | 235 | 5.0 | 0.16 | 5.0 |
| 48 | 60 | 72 | 81008863 | 120060WDHW | 282 | 6.0 | 0.13 | 6.0 |
| 56 | 70 | 84 | 81008864 | 120070WDHW | 329 | 7.0 | 0.14 | 7.0 |
| 64 | 80 | 96 | 81008865 | 120080WDHW | 376 | 8.0 | 0.11 | 8.5 |
| 72 | 90 | 108 | 81008866 | 120090WDHW | 423 | 9.0 | 0.14 | 9.5 |
| 80 | 100 | 120 | 81008867 | 120100WDHW | 470 | 10.0 | 0.19 | 11 |

Preferred installation spacing

WarmWire Spools 240VAC

| 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 | REET Value* | Ship Weight (lb.) |
|---|---|---|--------------|--------------|-------------------|----------|-------------|-------------------|
| 16 | 20 | 24 | 81008868 | 240020WDHW | 94 | 1.0 | 0.16 | 3.0 |
| 24 | 30 | 36 | 81008869 | 240030WDHW | 142 | 1.5 | 0.14 | 3.0 |
| 32 | 40 | 48 | 81008870 | 240040WDHW | 188 | 2.0 | 0.16 | 4.0 |
| 40 | 50 | 60 | 81008871 | 240050WDHW | 236 | 2.5 | 0.14 | 5.0 |
| 48 | 60 | 72 | 81008872 | 240060WDHW | 282 | 3.0 | 0.16 | 6.0 |
| 56 | 70 | 84 | 81008873 | 240070WDHW | 330 | 3.5 | 0.14 | 7.0 |
| 64 | 80 | 96 | 81008874 | 240080WDHW | 376 | 4.0 | 0.14 | 8.5 |
| 72 | 90 | 108 | 81008875 | 240090WDHW | 424 | 4.5 | 0.15 | 9.5 |
| 80 | 100 | 120 | 81008876 | 240100WDHW | 470 | 5.0 | 0.16 | 11.0 |
| 96 | 120 | 144 | 81008877 | 240120WDHW | 564 | 6.0 | 0.13 | 13.0 |
| 112 | 140 | 168 | 81008878 | 240140WDHW | 658 | 7.0 | 0.14 | 15.0 |
| 128 | 160 | 192 | 81008879 | 240160WDHW | 752 | 8.0 | 0.11 | 17.0 |
| 144 | 180 | 216 | 81008880 | 240180WDHW | 846 | 9.0 | 0.14 | 19.0 |
| 160 | 200 | 240 | 81008881 | 240200WDHW | 940 | 10.0 | 0.19 | 21.0 |

Preferred installation spacing

WarmWire is the best.

- Twin-wire technology
- Durable
- Flexible
- Single power lead

WarmWire cable is very similar to HeatWeave except for the outer jacket.

- Oxygen-free heating elements
- Aramid reinforcing fibers
- ETFE insulation
- Stainless Steel jacket

WarmWire cable secured by the strap at 2.5" spacing.

UnderFloor Mats

UnderFloor 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 UnderFloor mats between the joists.

These effective, UL-Listed mats deliver 10 watts/sq. ft. of floor area (about 34 BTU/hr/sq. ft.).

UnderFloor mats will warm wood, vinyl, laminates, or tile floor coverings. With UnderFloor mats, most floors can be heated up to 12° to 15°F warmer than they would be otherwise.

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 6°–10°F, which may or may not meet your satisfaction. Insulation installed below the mats is essential to complete the installation.

Consider these benefits of UnderFloor mats:

- 1. Easy staple-up installation** between floor joists.
- 2. Manufactured in nearly 20 different lengths** in 12" and 16" widths. Mats of any size (same voltage) may be combined to heat any type of room.
- 3. 120-VAC and 240-VAC models** for small to large projects.
- 4. Highest-quality heating wire** using ETFE high-temperature insulation, and oxygen-free copper alloys for corrosion-resistance, temperature-resistance, abrasion-resistance, and longevity.
- 5. Shielded and fully grounded** 10-ft. power lead for safety and jobsite durability (longer lengths available on request). Power leads are color-coded for 120 VAC and for 240 VAC.

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



Roll out and staple mat to the floor joists.



Connect mats at junction box(es).



Install insulation.





12"-wide mats

(for joist bays spaced 12" on center)

| 120 VAC | Mat Size (L x W) | Order Number | Model Number | Amperage Draw | Ship Wt. (lb.) |
|---------|------------------|-----------------|--------------|---------------|----------------|
| | 5.5' x 12" | 81008814 | 1200512U2HW | 0.4 | 3 |
| | 8' x 12" | 81008815 | 1200812U2HW | 0.6 | 3 |
| | 10.5' x 12" | 81008816 | 1201012U2HW | 0.9 | 4 |
| | 13' x 12" | 81008817 | 1201312U2HW | 1.1 | 4 |
| | 16' x 12" | 81008819 | 1201612U2HW | 1.3 | 5 |

19' x 12" is discontinued

| 240 VAC | Mat Size (L x W) | Order Number | Model Number | Amperage Draw | Ship Wt. (lb.) |
|---------|------------------|-----------------|--------------|---------------|----------------|
| | 10.5' x 12" | 81008821 | 2401012U2HW | 0.4 | 4 |
| | 16' x 12" | 81008822 | 2401612U2HW | 0.6 | 5 |

21' x 12" and 26' x 12" are discontinued



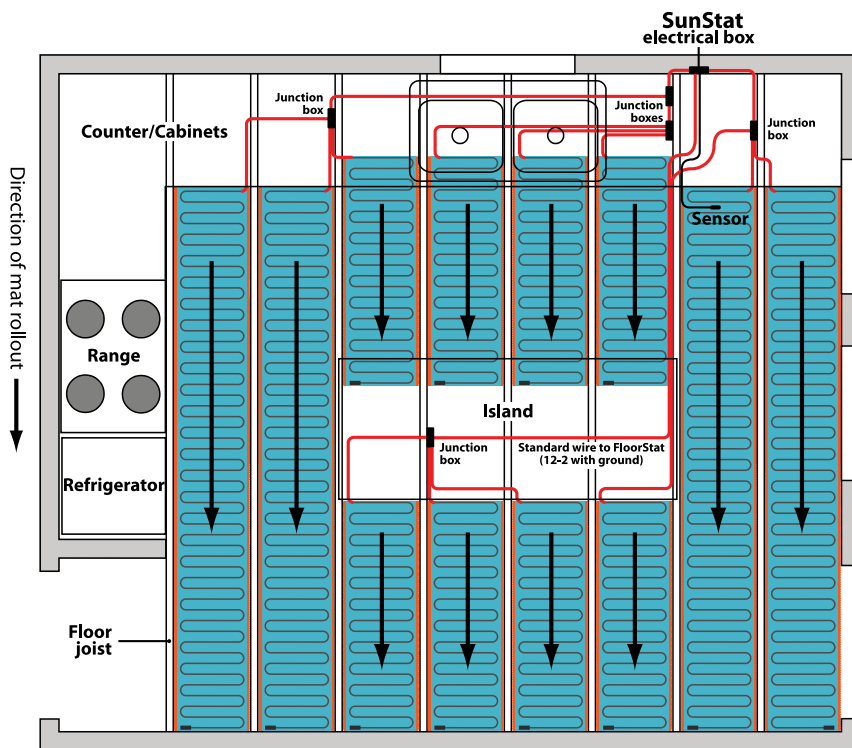
16"-wide mats

(for joist bays spaced 16" on center)

| 120 VAC | Mat Size (L x W) | Order Number | Model Number | Amperage Draw | Ship Wt. (lb.) |
|---------|------------------|-----------------|--------------|---------------|----------------|
| | 4' x 16" | 81008825 | 1200416U2HW | 0.4 | 3 |
| | 6' x 16" | 81008826 | 1200616U2HW | 0.6 | 3 |
| | 8' x 16" | 81008827 | 1200816U2HW | 0.8 | 3 |
| | 9.5' x 16" | 81008828 | 1200916U2HW | 1.0 | 4 |
| | 12' x 16" | 81008829 | 1201216U2HW | 1.3 | 4 |
| | 14' x 16" | 81008830 | 1201416U2HW | 1.5 | 5 |
| | 16' x 16" | 81008831 | 1201616U2HW | 1.7 | 5 |
| | 18' x 16" | 81008832 | 1201816U2HW | 1.9 | 6 |
| | 19.5' x 16" | 81008833 | 1201916U2HW | 2.1 | 6 |

| 240 VAC | Mat Size (L x W) | Order Number | Model Number | Amperage Draw | Ship Wt. (lb.) |
|---------|------------------|-----------------|--------------|---------------|----------------|
| | 8' x 16" | 81008834 | 2400816U2HW | 0.4 | 3 |
| | 12' x 16" | 81008835 | 2401216U2HW | 0.6 | 4 |
| | 16' x 16" | 81008836 | 2401616U2HW | 0.8 | 5 |
| | 19.5' x 16" | 81008837 | 2401916U2HW | 1.0 | 5 |

24' x 16" is discontinued



Sample Kitchen Layout Using UnderFloor Mats

Each UnderFloor 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. The mats are wired together in parallel (not in series) at junction boxes below the floor, then electrical wire is fed over to the SunStat control.

Select mats for the easiest wiring possible. If all the power leads end up at one end of the room, it will be much easier to wire them together in the junction boxes. Junction boxes must be accessible after all finishing work is completed.

Controls

SunStat Pro™ - Programmable Control

The new SunStat Pro is, by far, the most sophisticated electric floor warming control available. It incorporates an amazing variety of function and elegance into one thermostat:

- Dual Voltage: 120 and 240 VAC
- Built-in 15-amp Relay
- Built-in GFCI (5 milliamp trip)
- "Masterstat" capability
- Connects directly to SunStat Relay
- SmartStart Technology
- 5/1/1 Day Programming
- Four Preset Program Schedules
- One User Program Schedule
- Floor, air, or air & floor temperature modes
- "Regulator" operation without sensor attached
- Display in degree F or degree C
- Temperature Range: 40°F - 99°F (4° - 37°C)
- 15' floor sensor included
- Large Back-lit Display
- Keyboard Lockout
- Manual On/Off Switch
- Home automation remote control
- System usage monitoring

Extra SunStat sensor wire



Programmable

| Description | Qty. | Order No. | Model No. | Ship wt. (lb.) |
|---------------------------------|------|-----------|-----------|----------------|
| Programmable SunStat | 1 | 81009180 | 500670HB | 2 |
| Extra SunStat Sensor (optional) | 1 | 81010277 | 500110HW | 1 |

SunStat - Non-programmable Control

The most obvious change in our new non-programmable control is that it is now digital. However, behind the digital face of our new SunStat are nearly all of the same features as our new programmable model:

- Dual Voltage: 120 and 240 VAC
- Built-in 15-amp Relay
- Built-in GFCI (5 milliamp trip)
- "Masterstat" capability
- Connects directly to SunStat Relay
- Floor, air, or air & floor temperature modes
- "Regulator" operation without sensor attached
- Display in degree F or degree C
- Temperature Range: 40°F - 99°F (4° - 37°C)
- 15' floor sensor included
- Large Back-lit Display
- Keyboard Lockout
- Manual On/Off Switch
- Home automation remote control
- System usage monitoring

Extra SunStat sensor wire



Non-Programmable

| Description | Qty. | Order No. | Model No. | Ship wt. (lb.) |
|---------------------------------|------|-----------|-----------|----------------|
| Non-programmable SunStat | 1 | 81009184 | 500675BB | 2 |
| Extra SunStat Sensor (optional) | 1 | 81010277 | 500110HW | 1 |

SunStat Relay

If a mat or cable system requires more than 15 amps, we recommend installing SunStat Relays. Relays connect directly to SunStat thermostats for simple, elegant control of larger systems. SunStat Relays don't require a special "master thermostat," as before. Relays are dual voltage (120 VAC or 240 VAC), have a 15-amp capacity, an on/off switch, a GFCI and test light.

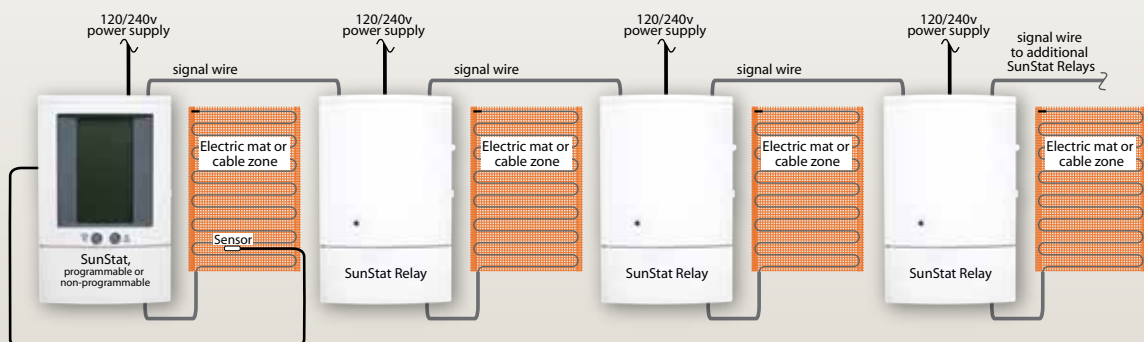
It's possible to control over 1500 sq.ft. of electric floor warming using 120 VAC and over 3,000 sq.ft. using 240 VAC floor warming mats or cables. First, find the amp draw for each HeatWeave, UnderFloor or WarmWire product in this catalog or in manuals. Then determine how many can connect to each relay. Up to ten 15-amp Relays can connect to one SunStat. Ten Relays, plus the internal relay in the SunStat, provide a total capacity of 165 amps! Each Relay should be connected to individual 20-amp breakers, as shown below.



Relay

| Description | Qty. | Order No. | Model No. | Ship wt. (lb.) |
|---------------|------|-----------|-----------|----------------|
| SunStat Relay | 1 | 81010398 | 500680HB | 2 |

It is possible to drive up to 10 SunStat Relays with one SunStat thermostat



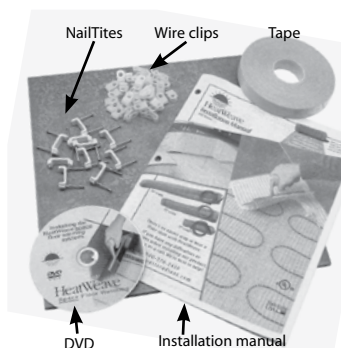
Accessories



LoudMouth Monitor

Watts Radiant is the inventor of this handy device. It's a must for every job. The LoudMouth monitors HeatWeave, WarmWire, or UnderFloor 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. The LoudMouth gives you the assurance of a quality installation. 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.

| Description | Qty. | Order No. | Model No. | Ship wt. (lb.) |
|-------------------|------|-----------|-----------|----------------|
| LoudMouth Monitor | 1 | 81008886 | 423250HW | 2 |



Mat Installation Kit

Everything you need to make the installation easier. Includes manual, English and Spanish installation DVDs; one 1-in. x 36-yd. roll of double-sided tape to secure mat to the substrate (enough to do up to 150 sq. ft. of mat-order extra roll(s) if needed); 5 NailTites to secure the power leads; and 20 wire clips.

| Description | Qty. | Order No. | Model No. | Ship wt. (lb.) |
|-----------------------------|------|-----------|-----------|----------------|
| HeatWeave Installation Kit | 1 | 81008887 | 600410HW | 3.5 |
| Extra double-sided tape | 1 | 81008889 | 423275HW | 0.6/roll |
| UnderFloor Installation Kit | 1 | 81008888 | 600416HW | 2 |

CableStrap™

Cable strap is used to hold WarmWire in place at the desired spacing. All three spacings are possible with this one strap. 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.

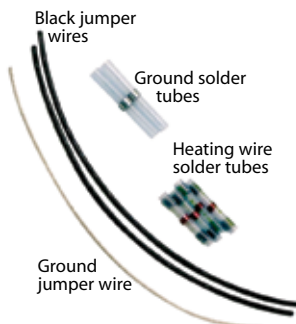
| Description | Qty. | Order No. | Model No. | Ship wt. (lb.) |
|-------------|------|-----------|-----------|----------------|
| CableStrap | 1 | 81008890 | 321301HW | 3 |



CableTrowel™

Most instances of damage to the heating wire occur when a metal trowel is banged onto the floor to remove excess mortar. A metal trowel can cut like a knife and either damage or totally sever the wire. The CableTrowel simply cannot damage the wire. With rounded notches that are 3/8" wide by 1/2" deep, it is perfect for applying thin-set mortar over WarmWire or SunTouch Mats.

| Description | Qty. | Order No. | Model No. | Ship wt. (lb.) |
|--|------|-----------|-----------|----------------|
| CableTrowel, 3/8" wide x 1/2" deep notches | 1 | 81008891 | 300400HW | 1 |



Heating Wire Repair Kit

This simple and safe kit repairs heating elements that have been damaged during installation. It is suitable for all HeatWeave 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. Please call before making any type of repair.

| Description | Qty. | Order No. | Model No. | Ship wt. (lb.) |
|-----------------------------------|------|-----------|-----------|----------------|
| Heating Wire Repair Kit, 1 repair | 1 | 81008892 | 200299HW | 1 |

Extra Power Lead

HeatWeave mats, WarmWire cables, and UnderFloor mats 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 No. | Model No. | 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. |



HeatWeave

ProMelt™ Mats

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

ProMelt 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.

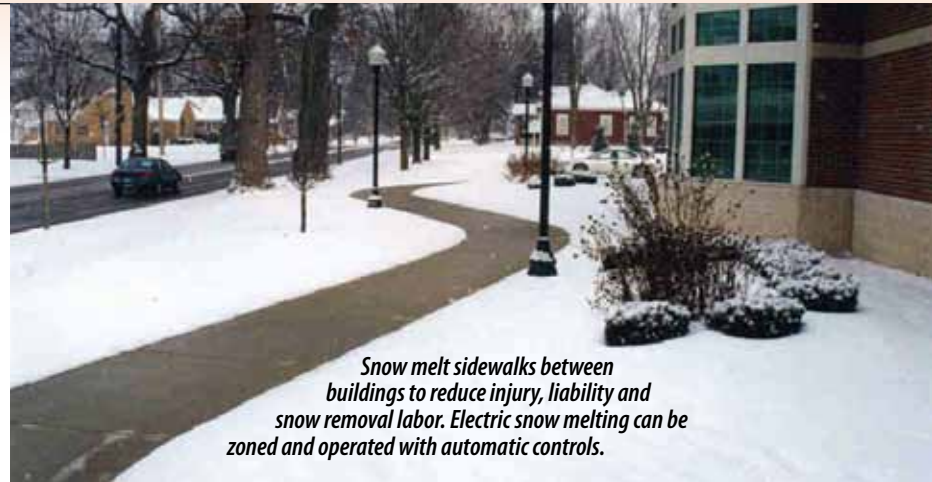
Each mat holds dual heating elements on 3 inch centers on a reinforced tape grid. There's a grounded power lead on one end for a fast, single-point electrical connection.

Mats come in two energy outputs:

- 120VAC mats are 38 Watts/Sq. Ft.

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

ProMelt has more sizes and more options than any electric snow melting system. Standard size widths are 2 feet and 3 feet. You can order mats to cover from 9 to 112 square feet. Our catalog lists 60 standard sizes. Call us if your job requires custom sizes.



Snow melt sidewalks between buildings to reduce injury, liability and snow removal labor. Electric snow melting can be zoned and operated with automatic controls.

Follow these recommendations when selecting ProMelt Mats:

1. Determine what voltage will be used:

120V, 208V, 240V, or 277V.

2. 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.

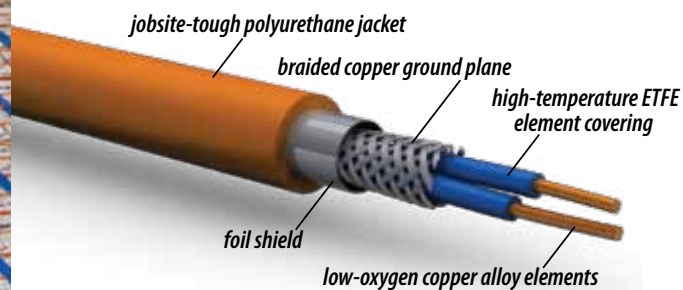
3. Determine the square footage of the area to be melted.

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.

Alternatively, you might want to figure the total length of mat needed. This can be better for an area such as tire tracks, sidewalks or stairways. As an example, a sidewalk is 30" wide, 25' long, and has a 240V power supply. The best choice would be a 2' x 24' mat, 240V mat.

More than one mat can be used to melt an area(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 minimize the mat amp load connected to each contactor.

Anatomy of a world-class snow melting cable





**AMERICAN
MADE**



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. (lb.) |
|-------------------|-------------------|-----------|----------------|----------|-------------|----------------|
| 10 | 2'W x 5'L | 81011859 | SM3812000524HW | 3.2 | 380 | 2.0 |
| 20 | 2'W x 10'L | 81011861 | SM3812001024HW | 6.3 | 760 | 3.0 |
| 30 | 2'W x 15'L | 81011863 | SM3812001524HW | 9.5 | 1140 | 4.0 |
| 40 | 2'W x 20'L | 81011866 | SM3812002024HW | 12.7 | 1520 | 4.5 |
| 50 | 2'W x 25'L | 81011868 | SM3812002524HW | 15.8 | 1900 | 5.5 |
| 60 | 2'W x 30'L | 81011870 | SM3812003024HW | 19.0 | 2280 | 6.5 |

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. (lb.) |
|-------------------|-------------------|-----------|----------------|----------|-------------|----------------|
| 15 | 3'W x 5'L | 81011904 | SM5020800536HW | 3.6 | 750 | 2.5 |
| 30 | 3'W x 10'L | 81011906 | SM5020801036HW | 7.2 | 1500 | 4.0 |
| 45 | 3'W x 15'L | 81011909 | SM5020801536HW | 10.8 | 2250 | 5.0 |
| 60 | 3'W x 20'L | 81011910 | SM5020802036HW | 14.4 | 3000 | 6.5 |
| 75 | 3'W x 25'L | 81011911 | SM5020802536HW | 18.0 | 3750 | 8.0 |
| 90 | 3'W x 30'L | 81011912 | SM5020803036HW | 21.6 | 4500 | 9.0 |

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. (lb.) |
|-------------------|-------------------|-----------|----------------|----------|-------------|----------------|
| 14 | 2'W x 7'L | 81011892 | SM5020800724HW | 3.4 | 700 | 2.5 |
| 22 | 2'W x 11'L | 81011893 | SM5020801124HW | 5.3 | 1100 | 3.0 |
| 28 | 2'W x 14'L | 81011894 | SM5020801424HW | 6.7 | 1400 | 4.0 |
| 36 | 2'W x 18'L | 81011895 | SM5020801824HW | 8.7 | 1800 | 4.5 |
| 40 | 2'W x 20'L | 81011896 | SM5020802024HW | 9.6 | 2000 | 5.0 |
| 48 | 2'W x 24'L | 81011897 | SM5020802424HW | 11.5 | 2400 | 5.5 |
| 56 | 2'W x 28'L | 81011898 | SM5020802824HW | 13.5 | 2800 | 6.0 |
| 68 | 2'W x 34'L | 81011900 | SM5020803424HW | 16.3 | 3400 | 7.0 |
| 76 | 2'W x 38'L | 81011901 | SM5020803824HW | 18.3 | 3800 | 8.0 |
| 84 | 2'W x 42'L | 81011902 | SM5020804224HW | 20.2 | 4200 | 9.0 |
| 96 | 2'W x 48'L | 81011903 | SM5020804824HW | 23.1 | 4800 | 10.0 |

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. (lb.) |
|-------------------|-------------------|-----------|----------------|----------|-------------|----------------|
| 15 | 3'W x 5'L | 81011883 | SM5024000536HW | 3.1 | 750 | 2.5 |
| 30 | 3'W x 10'L | 81011885 | SM5024001036HW | 6.3 | 1500 | 4.0 |
| 45 | 3'W x 15'L | 81011887 | SM5024001536HW | 9.4 | 2250 | 5.0 |
| 60 | 3'W x 20'L | 81011888 | SM5024002036HW | 12.5 | 3000 | 6.5 |
| 75 | 3'W x 25'L | 81011889 | SM5024002536HW | 15.6 | 3750 | 8.0 |
| 90 | 3'W x 30'L | 81011890 | SM5024003036HW | 18.8 | 4500 | 9.0 |
| 105 | 3'W x 35'L | 81011891 | SM5024003536HW | 21.9 | 5250 | 10.5 |

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. (lb.) |
|-------------------|-------------------|-----------|----------------|----------|-------------|----------------|
| 16 | 2'W x 8'L | 81011871 | SM5024000824HW | 3.3 | 800 | 2.5 |
| 24 | 2'W x 12'L | 81011872 | SM5024001224HW | 5.0 | 1200 | 3.0 |
| 32 | 2'W x 16'L | 81011873 | SM5024001624HW | 6.7 | 1600 | 4.0 |
| 40 | 2'W x 20'L | 81011874 | SM5024002024HW | 8.3 | 2000 | 4.5 |
| 48 | 2'W x 24'L | 81011875 | SM5024002424HW | 10.0 | 2400 | 5.5 |
| 56 | 2'W x 28'L | 81011876 | SM5024002824HW | 11.7 | 2800 | 6.0 |
| 64 | 2'W x 32'L | 81011877 | SM5024003224HW | 13.3 | 3200 | 6.0 |
| 72 | 2'W x 36'L | 81011878 | SM5024003624HW | 15.0 | 3600 | 8.0 |
| 80 | 2'W x 40'L | 81011879 | SM5024004024HW | 16.7 | 4000 | 8.5 |
| 88 | 2'W x 44'L | 81011880 | SM5024004424HW | 18.3 | 4400 | 9.0 |
| 96 | 2'W x 48'L | 81011881 | SM5024004824HW | 20.0 | 4800 | 10.0 |
| 104 | 2'W x 52'L | 81011882 | SM5024005224HW | 21.7 | 5200 | 10.5 |

3-ft. wide mats 277VAC 50Watts/Sq. Ft.

| Coverage (Sq.Ft.) | Dimension (L x W) | Order No. | Model No. | Amp Draw | Total Watts | Ship wt. (lb.) |
|-------------------|-------------------|-----------|----------------|----------|-------------|----------------|
| 30 | 3'W x 10'L | 81011926 | SM5027701036HW | 5.4 | 1500 | 4.0 |
| 45 | 3'W x 15'L | 81011928 | SM5027701536HW | 8.1 | 2250 | 5.0 |
| 60 | 3'W x 20'L | 81011930 | SM5027702036HW | 10.8 | 3000 | 6.5 |
| 75 | 3'W x 25'L | 81011931 | SM5027702536HW | 13.5 | 3750 | 8.0 |
| 90 | 3'W x 30'L | 81011932 | SM5027703036HW | 16.2 | 4500 | 9.0 |
| 105 | 3'W x 35'L | 81011933 | SM5027703536HW | 19.0 | 5250 | 10.5 |

2-ft. wide mats 277VAC 50Watts/Sq. Ft.

| Coverage (Sq.Ft.) | Dimension (L x W) | Order No. | Model No. | Amp Draw | Total Watts | Ship wt. (lb.) |
|-------------------|-------------------|-----------|----------------|----------|-------------|----------------|
| 18 | 2'W x 9'L | 81011913 | SM5027700924HW | 3.2 | 900 | 3.0 |
| 28 | 2'W x 14'L | 81011914 | SM5027701424HW | 5.1 | 1400 | 4.0 |
| 36 | 2'W x 18'L | 81011915 | SM5027701824HW | 6.5 | 1800 | 4.5 |
| 48 | 2'W x 24'L | 81011916 | SM5027702424HW | 8.7 | 2400 | 5.5 |
| 56 | 2'W x 28'L | 81011917 | SM5027702824HW | 10.1 | 2800 | 6.0 |
| 64 | 2'W x 32'L | 81011918 | SM5027703224HW | 11.6 | 3200 | 7.0 |
| 72 | 2'W x 36'L | 81011919 | SM5027703624HW | 13.0 | 3600 | 7.5 |
| 80 | 2'W x 40'L | 81011920 | SM5027704024HW | 14.4 | 4000 | 8.5 |
| 88 | 2'W x 44'L | 81011921 | SM5027704424HW | 15.9 | 4400 | 9.0 |
| 96 | 2'W x 48'L | 81011922 | SM5027704824HW | 17.3 | 4800 | 10.0 |
| 104 | 2'W x 52'L | 81011923 | SM5027705224HW | 18.8 | 5200 | 10.5 |
| 112 | 2'W x 56'L | 81011924 | SM5027705624HW | 20.2 | 5600 | 11.0 |



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

ProMelt™ **NEW** Cables

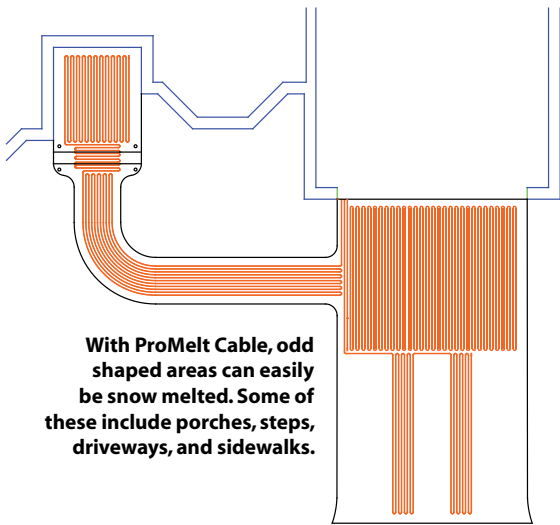
ProMelt Cables cost less than ProMelt Mats and give you more layout options.

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.

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

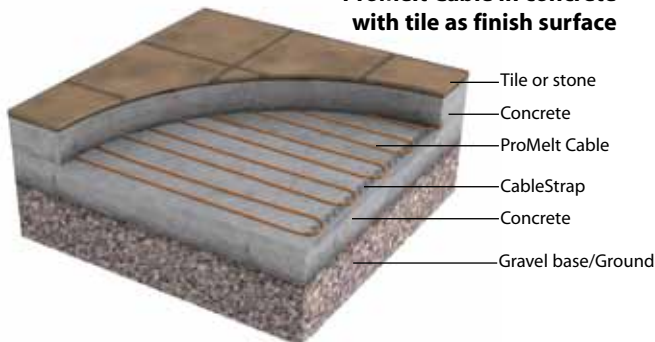
There are a lot of ProMelt Cable sizes in stock in four single-phase voltage options. All the cables terminate at one end with a power lead so you only make one connection to your electrical source.

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



With ProMelt Cable, odd shaped areas can easily be snow melted. Some of these include porches, steps, driveways, and sidewalks.

ProMelt Cable in concrete with tile as finish surface



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





Follow these recommendations when selecting ProMelt Cables:

1. Determine what voltage will be used:
120V, 208V, 240V, or 277V.

2. 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.).

3. 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. ProMelt 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 ProMelt ContactorPro controls, each area should not exceed 50-amperes, since these controls are built with 50-amp contactors. Therefore, we recommend dividing the area(s) into "sub-zones", if necessary or desired, to minimize 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 | Ship wt. (lb.) |
|-----------------------------------|---------------------------------|--------------|--------------|-------------------|----------|-------------|----------------|
| 8 | 10 | 81011982 | SC50120008HW | 29 | 3.3 | 400 | 2.0 |
| 15 | 20 | 81011984 | SC50120015HW | 59 | 6.3 | 750 | 2.5 |
| 20 | 26 | 81011985 | SC50120020HW | 78 | 8.3 | 1000 | 3.0 |
| 30 | 39 | 81011988 | SC50120030HW | 118 | 12.5 | 1500 | 3.5 |
| 40 | 53 | 81011991 | SC50120040HW | 158 | 16.7 | 2000 | 4.5 |
| 53 | 69 | 81011993 | SC50120053HW | 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 | Ship wt. (lb.) |
|-----------------------------------|---------------------------------|--------------|--------------|-------------------|----------|-------------|----------------|
| 14 | 19 | 81011946 | SC50208014HW | 55 | 3.4 | 700 | 2.5 |
| 20 | 26 | 81011947 | SC50208020HW | 78 | 4.8 | 1000 | 3.0 |
| 30 | 39 | 81011948 | SC50208030HW | 118 | 7.2 | 1500 | 3.5 |
| 35 | 46 | 81011949 | SC50208035HW | 138 | 8.4 | 1750 | 4.0 |
| 40 | 53 | 81011950 | SC50208040HW | 158 | 9.6 | 2000 | 4.5 |
| 45 | 59 | 81011951 | SC50208045HW | 178 | 10.8 | 2250 | 5.0 |
| 55 | 72 | 81011952 | SC50208055HW | 218 | 13.2 | 2750 | 5.5 |
| 60 | 79 | 81011953 | SC50208060HW | 238 | 14.4 | 3000 | 6.0 |
| 65 | 85 | 81011954 | SC50208065HW | 257 | 15.6 | 3250 | 6.5 |
| 75 | 98 | 81011955 | SC50208075HW | 297 | 18.0 | 3750 | 7.0 |
| 80 | 105 | 81011956 | SC50208080HW | 317 | 19.2 | 4000 | 7.5 |
| 90 | 118 | 81011957 | SC50208090HW | 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 | Ship wt. (lb.) |
|-----------------------------------|---------------------------------|--------------|--------------|-------------------|----------|-------------|----------------|
| 15 | 20 | 81011958 | SC50240015HW | 59 | 3.1 | 750 | 2.5 |
| 25 | 33 | 81011959 | SC50240025HW | 98 | 5.2 | 1250 | 3.0 |
| 30 | 39 | 81011960 | SC50240030HW | 118 | 6.3 | 1500 | 3.5 |
| 40 | 53 | 81011961 | SC50240040HW | 158 | 8.3 | 2000 | 4.5 |
| 45 | 59 | 81011962 | SC50240045HW | 178 | 9.4 | 2250 | 5.0 |
| 55 | 72 | 81011963 | SC50240055HW | 218 | 11.5 | 2750 | 5.5 |
| 60 | 79 | 81011964 | SC50240060HW | 238 | 12.5 | 3000 | 6.0 |
| 65 | 85 | 81011965 | SC50240065HW | 257 | 13.5 | 3250 | 6.5 |
| 75 | 98 | 81011966 | SC50240075HW | 297 | 15.6 | 3750 | 7.0 |
| 80 | 105 | 81011967 | SC50240080HW | 317 | 16.7 | 4000 | 7.5 |
| 90 | 118 | 81011968 | SC50240090HW | 357 | 18.8 | 4500 | 8.5 |
| 105 | 137 | 81011969 | SC50240105HW | 417 | 21.9 | 5250 | 9.5 |

277vac 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 | Ship wt. (lb.) |
|-----------------------------------|---------------------------------|--------------|--------------|-------------------|----------|-------------|----------------|
| 18 | 24 | 81011970 | SC50277018HW | 71 | 3.2 | 900 | 2.5 |
| 30 | 39 | 81011971 | SC50277030HW | 118 | 5.4 | 1500 | 3.5 |
| 35 | 46 | 81011972 | SC50277035HW | 138 | 6.3 | 1750 | 4.0 |
| 45 | 59 | 81011973 | SC50277045HW | 178 | 8.1 | 2250 | 5.0 |
| 55 | 72 | 81011974 | SC50277055HW | 218 | 9.9 | 2750 | 5.5 |
| 60 | 79 | 81011975 | SC50277060HW | 238 | 10.8 | 3000 | 6.0 |
| 70 | 92 | 81011976 | SC50277070HW | 277 | 12.6 | 3500 | 7.0 |
| 75 | 98 | 81011977 | SC50277075HW | 297 | 13.5 | 3750 | 7.0 |
| 80 | 105 | 81011978 | SC50277080HW | 317 | 14.4 | 4000 | 7.5 |
| 90 | 118 | 81011979 | SC50277090HW | 357 | 16.2 | 4500 | 8.5 |
| 105 | 137 | 81011980 | SC50277105HW | 417 | 19.0 | 5250 | 9.5 |
| 115 | 150 | 81011981 | SC50277115HW | 456 | 20.8 | 5750 | 10.5 |



ProMelt™ Controls/Sensors/Accessories

ProMelt Snow Sensor Controls: Pole-mount, 120/208/240V

The **PM-2B** sensor control is used to detect snowfall and low temperature to activate the ProMelt Mats or Cables. It is a "pole-mounted" control with a "fixed" moisture sensor mounted to the top. The **PM-2B** offers automatic activation, rain/snow detection, adjustable trigger temperature, and a drying cycle, as well as "manual on" operation. It operates on line voltage (120/208/240V, not 277V) and has a 30 Amp capacity. It is a stand-alone control intended for relatively small systems (up to 30 Amps). It should not be used with our ContactorPro series of ProMelt controls, as those are designed for 24V control sensors. The unit measures approximately 5" x 7" x 3".

A recommended upgrade to the PM-2B is our **PM-DP** Control Panel. This control allows convenient indoor monitoring and control of the system for manual on, automatic, and standby operation. It communicates with the PM-2B through a simple low-voltage cable.

| Description | Qty. | Order No. | Model No. | Ship wt. (lb.) |
|---|------|-----------|-----------|----------------|
| ProMelt ,PM-2B, Detector, 120/208/240V | 1 | 81012640 | 300600HW | 3 |
| ProMelt Display Panel, PM-DP, 24V, Optional | 1 | 81012641 | 300650HW | 1 |

ProMelt Snow Sensor Controls: Pole-mount, 24v

The **PM-224** and **PM-824** are used to detect snowfall and low temperature to activate the ProMelt Mats or Cables. The **PM-224** has a moisture sensor "fixed" to the top. The **PM-824** has a remote moisture sensor, which allows mounting the control in a more convenient location. It can be mounted on a wall or inside the building and the sensor outside exposed to the snowfall, adding convenience of operation and adjustment. Both models offer automatic activation, rain/snow detection, adjustable trigger temperature, and a drying cycle, as well as "manual on" operation. Either control will operate in conjunction with our Contactor Pro series of ProMelt controls, which should be ordered separately (see next page). The unit measures approximately 5" x 7" x 3".

| Description | Qty. | Order No. | Model No. | Ship wt. (lb.) |
|---|------|-----------|-----------|----------------|
| ProMelt PM-224 Detector, 24V | 1 | 81012642 | 300224HW | 3 |
| ProMelt PM-824 Detector w/ 10' cable, 24V | 1 | 81012643 | 300824HW | 3 |

ProMelt Snow Sensor: Slab-mount, 24v

The **PM-HSC5** is a slab-mounted snow detector. It is used to detect snowfall and low temperature to automatically activate the ProMelt Mats or Cables. It has built-in temperature and moisture detection and a drying cycle after snow melting is complete. It is comprised of a sensor and sensor socket that is embedded in the slab where ProMelt is installed. This sensor operates in conjunction with our ContactorPro series of ProMelt controls, ordered separately (see next page).

| Description | Qty. | Order No. | Model No. | Ship wt. (lb.) |
|-------------------------------|------|-----------|-----------|----------------|
| ProMelt PM-HSC5 Detector, 24V | 1 | 81012644 | 983046HW | 10 |

Snow Melting Plaque

Permanent plaque to indicate where a snow melting system has been installed. These plaques are required per National Electrical Code, to identify each snow melting area.

| Description | Qty. | Order No. | Model No. | Ship wt. (lb.) |
|---------------------|------|-----------|-----------|----------------|
| Snow Melting Plaque | 1 | 81012651 | 100123HW | 2 |



ProMelt ContactorPro™

The Contactor Pro panels are complete “turn-key” solutions for activating larger systems of ProMelt Mats and Cables when used in combination with a **PM-224**, **PM-824**, or **PM-HSC5** snow detector. They’re available in three panel sizes: 50 Amps, 100 Amps, and 200 Amps. An additional 200-amp extension panel allows coverage for even larger systems. 120V, 208V, 240V, or 270V is supplied to the panel and a 24V Class 2 transformer allows connection to the snow detector.



Each Contactor Pro panel is complete with “system on” indicator light, manual override by a 4-hr timer, simple 24V wire terminal connections to the snow detector, and outputs for connection to an extension panel. The **CP-50** has one 50-amp contactor, the **CP-100** has two 50-amp contactors, and the **CP-200** has four 50-amp contactors. Systems should be designed to connect one or more ProMelt Cables or Mats in combinations not to exceed the capacity of individual 50-amp contactors. Each panel is NEMA Type 1 for mounting indoors on a wall, has knockouts for conduit, and measures 12” x 12” x 4”.

| Description | Qty. | Order No. | Model No. | Ship wt. (lb.) |
|---|------|-----------|-----------|----------------|
| ContactorPro, CP-50, 50 Amp | 1 | 81012645 | 300050HW | 20 |
| ContactorPro, CP-100, 100 Amp | 1 | 81012646 | 300100HW | 20 |
| ContactorPro, CP-200, 200 Amp | 1 | 81012647 | 300200HW | 20 |
| ContactorPro Expansion, CP-200EX, 200 Amp | 1 | 81012648 | 300250HW | 20 |



Cable Ties

6 inch cable ties are used to tie ProMelt Mat and/or Cable to rewire or rebar.

| Description | Qty. | Order No. | Model No. | Ship wt. (lb.) |
|-------------|------|-----------|-----------|----------------|
| Cable Ties | 100 | 81012649 | 321400HW | 1 |



CableStrap™

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

| Description | Qty. | Order No. | Model No. | Ship wt. (lb.) |
|-------------|------|-----------|-----------|----------------|
| CableStrap | 1 | 81008890 | 321301HW | 3 |



ProMelt Heating Wire Repair Kit

This simple and safe kit is used to repair heating elements that have been damaged during installation. It is suitable for all ProMelt snow melting 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. Please call before making any type of repair.

| Description | Qty. | Order No. | Model No. | Ship wt. (lb.) |
|---|------|-----------|-----------|----------------|
| ProMelt Heating Wire Repair Kit, 1 repair | 1 | 81012650 | 200400HW | 1 |



Extra Power Lead

ProMelt Mats and Cables come standard with a 20-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. Power lead is used with 120 VAC, 208 VAC, 240 VAC, and 277 VAC ProMelt Products.

| Description | Qty. | Order No. | Model No. | Ship wt. (lb.) |
|------------------|----------|-----------|--------------------------|----------------|
| Extra power lead | per foot | | Consult Factory to Order | .25 lb/ft. |

WattsRadiant™
Floor Heating & Snow Melting

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Effective July 1, 2010