

Eliminate snow and freezing rain on contact

EasyHeat™ Snow Melting Systems

Automatic electric snow and ice melting systems for Commercial Applications

EMERSON™

Keep pedestrian and vehicular areas clear of snow and ice – the easy way



Snow melting systems are ideal for new concrete and retrofit installations of walkways, driveways and dock areas.

Winter in many parts of the country can mean shoveling and salting driveways, sidewalks and parking lots to keep your facility accessible for workers and customers alike. The assurance that they can safely navigate these spaces without the dangers of slipping and falling can alleviate the added stress snow and ice can add, while also reducing your maintenance budget.

What if you could install a new or retrofit snow melting system that prevents the build up of ice and snow eliminating the need to shovel, plow and salt? What if that system could turn on automatically when needed, so you can worry about something besides the weather.

" Our shipping docks operate 24/7 during the winter, that meant having to worry about the accumulation of snow and ice. With our new snow melting system in place, we don't have to take time to shovel, or worry about sliding trucks or slip and fall accidents around the dock."

- Dock supervisor at a large distribution center.



" Having a snow melting system in the walkways has reduced not only the manpower needed to clear the surfaces of snow and ice, but our liability insurance premiums as well."

- Engineer at a building management company.



EasyHeat Snow Melting Systems



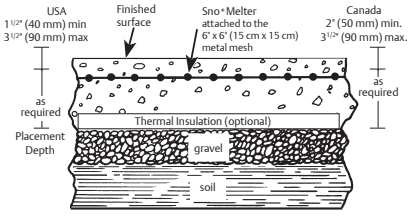
Snow melting systems are a simpler and safer method of removing and preventing surface snow and ice buildup on steps, walkways, driveways, parking areas, ramps and loading docks. They offer an effective alternative to the application of salts and other chemicals which result in damage to pavement, building infrastructure and, potentially, the environment. For commercial facilities, snow melting systems are a simpler and safer method of removing surface snow and ice 24 hours a day, 7 days a week.

EasyHeat snow melting systems are easy to install in concrete, asphalt or under pavers, either as part of a new installation or retrofit. When connected to optional controls that detect moisture and freezing temperatures, they start working when the snow starts to fall to help prevent the accumulation of snow and ice.

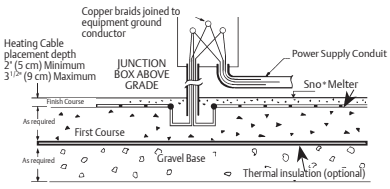
Product Benefits

- No damage to concrete or asphalt from salt or other chemicals.
- No messy buildup of sand.
- No waiting for snow removal service personnel.
- No investment in snowblowers, shovels, plows, and other expensive equipment.
- Minimal labor costs.
- There are no moving parts.

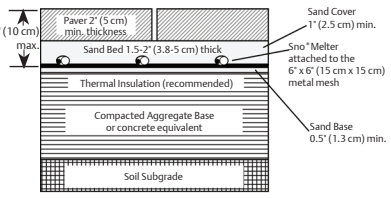
General Installation



Installation in Concrete



Installation in Asphalt



Installation Under Pavers

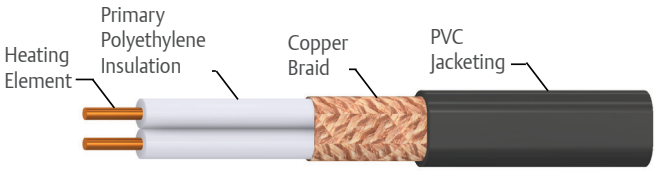
EasyHeat Sno*Melter™ Mats

Constant Wattage. Ideal for Light Commercial Applications.

Energy-efficient Sno*Melter Mats are designed using a fixed resistance, constant wattage, heating element, available in sizes that cover from 5 to 130 square foot (0.46 to 12.1 square meter) using a single mat. Depending on the voltage available and configuration, mats can easily be combined and tailored to cover your unique walk, stair, patio, ramp. loading dock or driveway configuration. They are available in 120 Vac to 600 Vac voltages with 35 to 72 Watt outputs per square foot.

Cable Construction

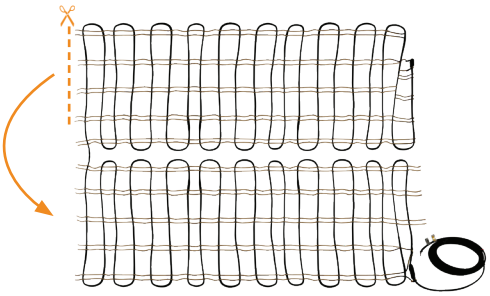
Sno*Melter Mats are comprised of a single length of dual conductor heating cable formed into a predetermined shape and secured in this shape by polymer carrier strands fused to the cable.



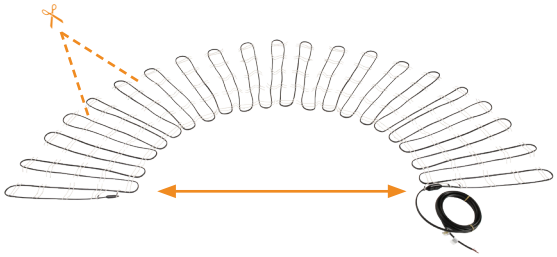
Mat Shape Configurations

Standard Sno*Melter Mats are rectangular in shape, but can be tailored to adapt to angles, or follow the contours of curves and other obstructions by making a series of cuts to the mat carrier strands. Step mats, for use on stairs, can be used independently or in conjunction with standard mats. Custom shaped, factory tailored mats are available in unique shapes and sizes for applications where a standard Sno*Melter mat cannot be used.

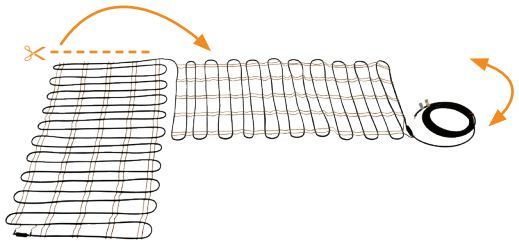
Increase Width



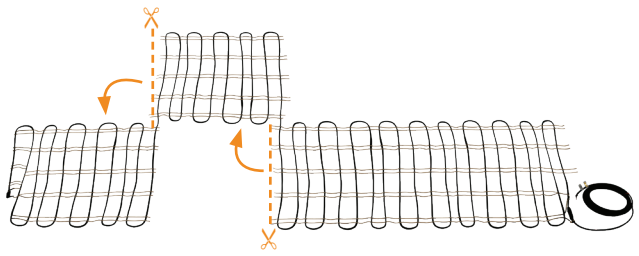
Curves



Corners



Around Obstacles



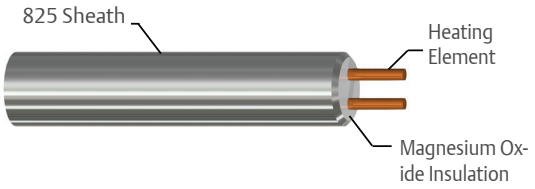
EasyHeat MI Trace Cable

Constant Wattage. Ideal for Harsh and Rugged Commercial Applications.

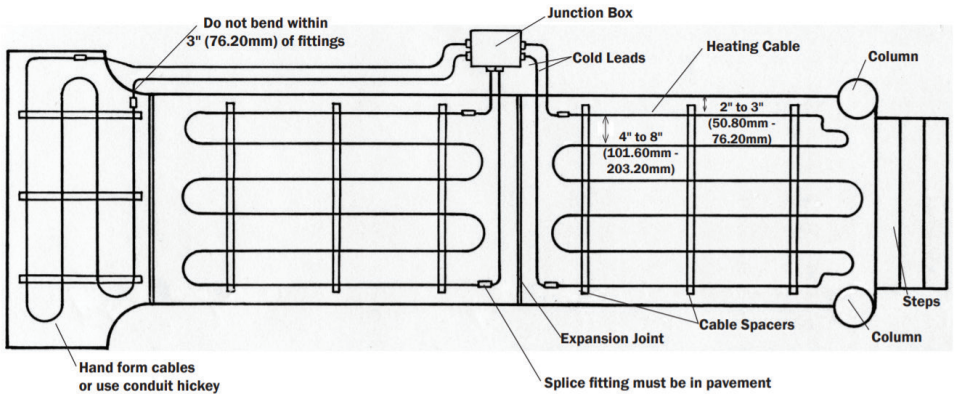
MI Trace Cable is a mineral insulated cable that is used for the electric heating of paved surfaces which provides exceptional protection of heat when use of a pliable cable is insufficient. MI Trace cables can be configured in lengths that cover, depending on the voltage selected and configuration, from about 20 to 250 square feet (1.8 to 23 square meters) using a single cable. MI Trace cable is available in 120 Vac to 600 Vac voltages and can be configured for up to 72 Watt outputs per square foot. Cables can easily be combined and tailored to cover your unique high traffic ramp, walkway, driveway, parking area and loading dock configurations.

Cable Construction

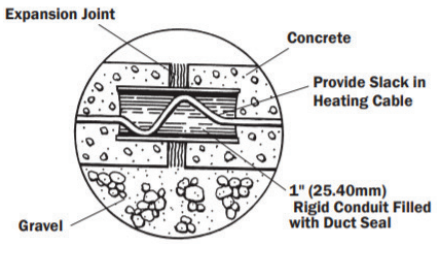
The MI Trace cable is a metal sheathed cable that uses metallic conductors as the heating elements. The conductors are electrically insulated from the metal sheath by mineral-magnesium oxide (MgO). The mineral insulated cable is a series resistance heater that generates heat when electrical current passes through the heating elements.

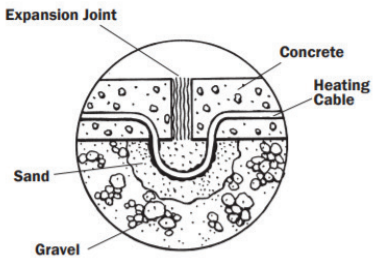


Typical Configurations

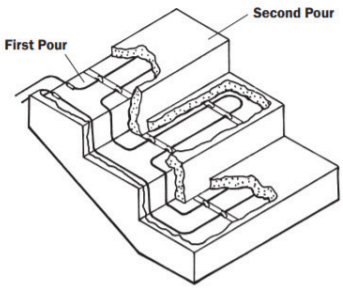


Crossing Control Joints





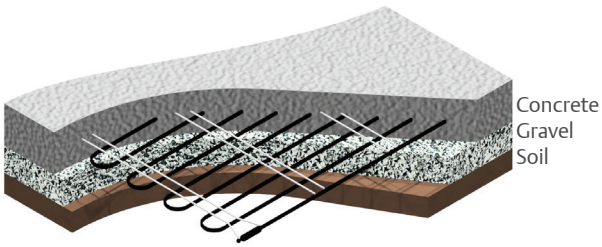
Stair Configuration



EasyHeat Snow Melting Systems Typical Installations

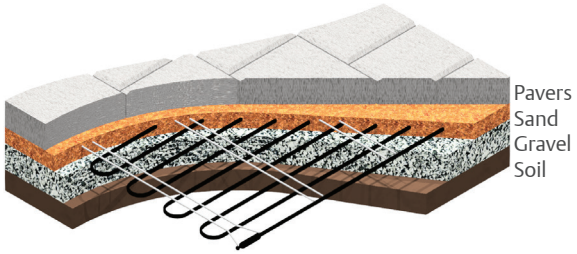
Sno*Melter Mats

In Concrete



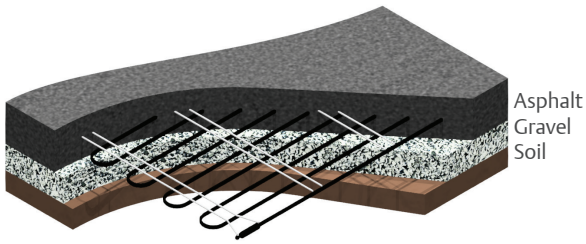
Sno*Melter Mat

Under Pavers



Sno*Melter Mat

In Asphalt



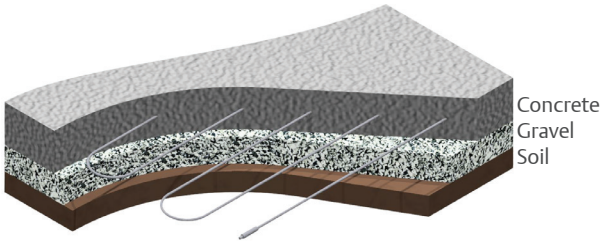
Sno*Melter Mat

Stair Configuration



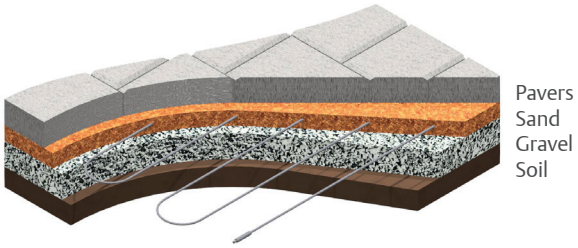
MI Trace Cable

In Concrete



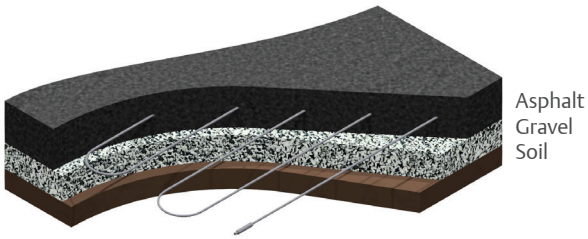
MI Trace Cable

Under Pavers



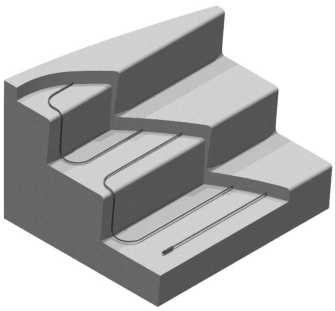
MI Trace Cable

In Asphalt



MI Trace Cable

Stair Configuration



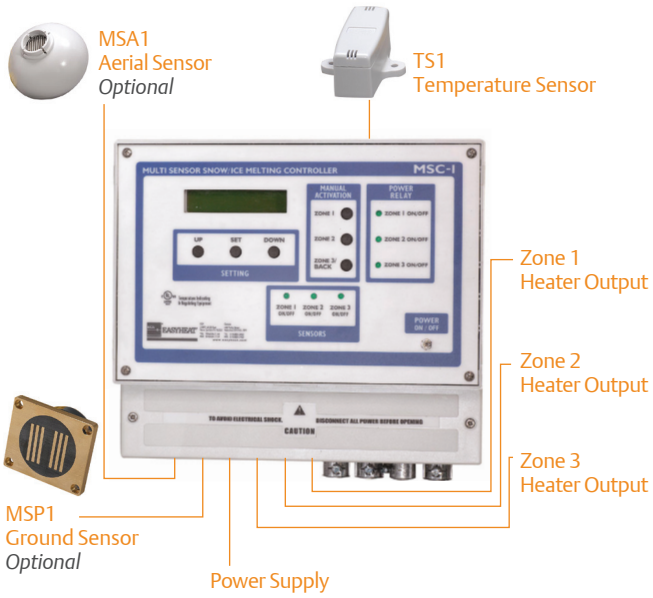
EasyHeat Snow Melting Controls

For Commercial Applications.

EasyHeat snow melting controls are designed and manufactured for use with electric heating snow melting systems such as EasyHeat Sno*Melter Mats and EasyHeat MI Trace snow melting cables.

MSC1 Controller and Optional Accessories

Minimum 2 sensors per zone



MSC1 Controller

The commercial grade MSC1 control panel is capable of monitoring and controlling snow and ice accumulation on large areas such as sidewalks, ramps, loading docks and driveways. It is the ideal solution for areas that are 200 square feet or larger. The 120 Vac unit comes complete with the TS1 temperature sensor which measures outside temperatures. The MSC1 is housed in a NEMA 4, 4X enclosure suitable for commercial applications and features an LCD display, programming and associated indicator lights for the operation of up to 3 separate zones, sequentially or independently. Optional sensors are available to further monitor each zone's weather conditions.

Modes of operation:

- Mode 1. Operation of three separate zones can include snow melting on each independent zones.
- Mode 2. Operation is used to reduce power demand by sequencing through three independent zones.

TS1 Temperature Sensor

The TS-1 Temperature Sensor measures outside (ambient) temperatures. It should be placed in the area that best represents the outdoor temperature conditions. The 120 Vac TS1 sensor has an operating temperature of -40°F to +150°F (-40°C to +65°C) and a 16 mA switching current. The TS1 is supplied with 10 feet (3 meters) of connection wire which can be extended up to 500 feet (152 meters).

MSA1 Aerial Moisture Sensor

The optional MSA1 Aerial Moisture Sensor is used to detect falling or blowing snow coming in contact with the sensor grid. During these conditions, the MSA1 sensor sends a signal to the MSC1 to energize the heating equipment. The MSA1 is supplied with a connection wire that can be extended up to 500 feet (152 meters) with an appropriately rated 18-20 AWG 3 wire unshielded stranded cable.

MSP1 Moisture Sensor

The optional MSP1 in-ground moisture sensor turns on when it detects falling or drifting snow, monitoring the temperature of the surface being heated. The MSP1 sensor is encased within a rugged enclosure and is designed to be embedded in the surface allowing it to monitor the slab's temperature to assure optimum energy savings. The MSP1 is supplied with 30 feet (9 meters) of wire to allow for connecting the sensor back to the MSC1 control unit.

SA1 Controller

The SA1 is an automatic stand-alone controller which uses microcontroller technology to energize the heating cable only when specific conditions of temperature and moisture exist. It is the ideal solution for areas that are less than 200 square feet. The 120 Vac SA1 control has a 16 mA current and an LED indicator which indicates when the system is operating, and when the sensor needs to be cleaned.



Heating cable solutions for temperature-related problems



EASYHEAT®

Your local contact: **Emerson.com/contactus**

United States (Headquarters)
Appleton Grp LLC
9377 W. Higgins Road
Rosemont, IL 60018
United States
T +1 800 537 4732

Canada
EGS Electrical Group Canada Ltd.
99 Union Street
Elmira ON, N3B 3L7
Canada
T +1 800 794 3766

easyheat.com

LinkedIn.com/Emerson

The Emerson logo is a trademark and service mark of Emerson Electric Co. EasyHeat is a registered trademark of Appleton Grp LLC. All other marks are the property of their respective owners. © 2020 Emerson Electric Co. All rights reserved. 40500-002 Rev. 7

EMERSON™

CONSIDER IT SOLVED™