

ClearZone Mats – Data Sheet

GENERAL PRODUCT INFORMATION

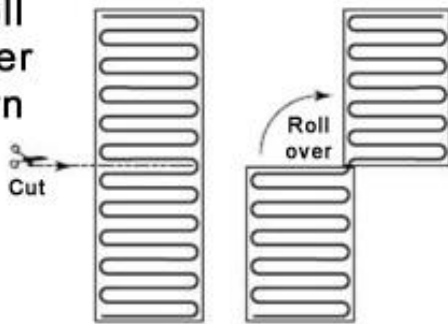
CZ snow melting mats feature pre-spaced heat cable (3 and 4-inch spacing) in mats that can be rolled out for quick, easy installation. To make turns, the tape strips can be cut and the mat can then be turned accordingly (see illustrations below). The convenient design, versatility and rugged construction of ClearZone electric radiant heating mats make them a favorite among homeowners and commercial construction professionals alike.

FEATURES INCLUDE:

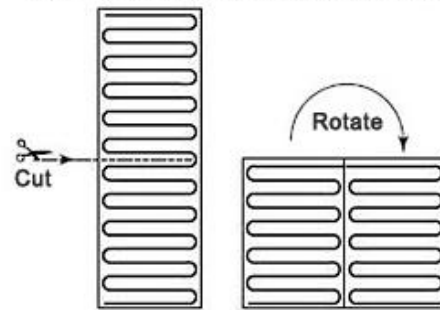
- Single point connection
- Twin conductor cable
- Flexible installation
- Durable construction
- Silent, efficient and safe
- Maintenance free
- For use in concrete, asphalt and under pavers
- CSA listed in U.S. and Canada
- 10-year limited warranty against manufacturing defects
- All mats heat an area 2-feet wide. Power leads are 16.4 feet in length.



Roll over turn



180° or Back-to-Back Turn



SPECIFICATIONS

Cable Construction:	Twin conductor
Rated Voltage:	120-600 V (For 120, 208, 277, 600 V, please call.)
Output:	37 W/ft ² and 50W/ft ²
Cold lead:	16.4 feet (5.0 m). Longer cold leads available on request.
Bending Radius:	Minimum 2 inches (51 mm)
Cable Diameter:	¼ inches (7 mm)
Conductor Insulation:	ETFE (ethylene tetrafluoroethylene copolymer)
Metal Sheath:	Copper
Outer Sheath:	Polyolefin
Max. External Jacket Asphalt Temperature:*	220°F (105°C) *[460°F (240°C) for up to 10 minutes]
Max. External Jacket Temperature:	158°F (70°C)
Max. Conductor Insulation Temperature:	302°F (150°C)
Min. Installation Temperature:	5°F (-15°C)

PRINCIPLES OF OPERATION

In addition to being installed in concrete, mortar beds, and under pavers, specially designed ClearZone heat cable can also be installed in hot asphalt. The fully automated system utilizes an activation device (either an aerial-mount or pavement-mount snow sensor) to trigger the system. When the sensor detects precipitation and the temperature is below the adjustable set point (usually set at 30°F), it signals the master controller, which is typically installed on a wall in the garage. This compact unit then sends power to the cable to heat the surface.

The Warmzone snowmelt control units for systems with ground sensors are small (6x3½-inch), NEMA 1,

wall-mount control panels. They can even be controlled from an external signal (day/week timer, GSM-module or other signal source). The controller can also be switched on/off (standby) and the heating system can be manually turned on in case wind causes snow drifts or ice forms in the shade.

The Warmzone master control unit offers maintenance-free, UL listed snow melting for residential and commercial applications. It is designed to provide energy-efficient heating to safely and effectively deliver reliable snow and ice melting for sidewalks, driveways and other outdoor applications.

ORDERING INFORMATION



Snow Melting Mats

240 Volt (37 W/Sq. ft.)

Item Number 240 V Mat	Heated Area	Mat Length (feet)	Watts	Amps	Ohms
SM237112750	20	11	750	3.1	77.4
SM2373022000	54	30	2,000	8.3	28.9
SM2375123500	94	51	3,500	14.6	16.4
SM2376524500	120	65	4,500	18.8	12.8
SM2378025500	146	80	5,500	22.9	10.5

240 Volt (50 W/Sq. ft.)

Item Number 240 V Mat	Heated Area	Mat Length (feet)	Watts	Amps	Ohms
SM25052500	10	5	500	2.1	115.2
SM2501021000	20	11	1,000	4.2	57.6
SM2502522500	50	27	2,500	10.4	23.1
SM2504024000	80	44	4,000	16.7	14.4
SM2505525500	110	60	5,500	22.9	10.5

Snow Melting Mats for Hot Asphalt Applications

240 Volt (37 W/Sq. ft.)

Item Number 240 V Mat	Heated Area	Mat Length (feet)	Watts	Amps	Ohms
SMA237112750	20	11	750	3.1	77.4
SMA2373022000	54	30	2,000	8.3	28.9
SMA2375123500	94	51	3,500	14.6	16.4
SMA2376524500	120	65	4,500	18.8	12.8
SMA2378025500	146	80	5,500	22.9	10.5

SPECIAL ORDER SNOWMELT MATS

Additional fulfillment time of 8-10 weeks required.

208 Volt (37 W/Sq. ft.)

Item Number 208 V Mat	Mat Length (feet)	Heated Area	Watts	Amps	Ohms
SM837112750	11	20	750	3.6	57.7
SM8373022000	30	54	2,000	9.6	21.6
SM8375123500	51	94	3,500	16.8	12.4
SM8376524500	65	120	4,500	21.6	9.6
SM8378025500	80	146	5,500	26.4	7.9
SM8378726000	87	160	6,000	28.8	7.2

208 Volt (50 W/Sq. ft.)

Item Number 208 V Mat	Mat Length (feet)	Heated Area	Watts	Amps	Ohms
SM85032300	3	6	300	1.4	144.2
SM85052500	5	10	500	2.4	86.6
SM8501121000	11	20	1,000	4.8	43.3
SM8501621500	16	30	1,500	7.2	28.9
SM8502222000	22	40	2,000	9.6	21.7
SM8502722500	27	50	2,500	12.0	17.3
SM8503323000	33	60	3,000	14.4	14.4
SM8503823500	38	70	3,500	16.8	12.4
SM8504424000	44	80	4,000	19.2	10.8
SM8504924500	49	90	4,500	21.6	9.6
SM8505525000	55	100	5,000	24.0	8.7
SM8506025500	60	110	5,500	26.4	7.9
SM8506526000	65	120	6,000	28.8	7.2

277 Volt (37 W/Sq. ft.)

Item Number 277 V Mat	Mat Length (feet)	Heated Area	Watts	Amps	Ohms
SM737112750	11	20	750	2.7	102.3
SM7373022000	30	54	2,000	7.2	38.4
SM7375123500	51	94	3,500	12.6	22.0
SM7376524500	65	120	4,500	16.2	17.1
SM7378025500	80	146	5,500	19.9	13.9
SM7378726000	87	160	6,000	21.7	12.8

SPECIAL ORDER SNOWMELT MATS (continued)
Additional fulfillment time of 8-10 weeks required.

277 Volt (50 W/Sq. ft.)

Item Number 277 V Mat	Mat Length (feet)	Heated Area	Watts	Amps	Ohms
SM75032300	3	6	300	1.1	255.7
SM75052500	5	10	500	1.8	153.5
SM7501121000	11	20	1,000	3.6	76.7
SM7501621500	16	30	1,500	5.4	51.2
SM7502222000	22	40	2,000	7.2	38.4
SM7502722500	27	50	2,500	9.0	30.7
SM7503323000	33	60	3,000	10.8	25.6
SM7503823500	38	70	3,500	12.6	21.9
SM7504424000	44	80	4,000	14.4	19.2
SM7504924500	49	90	4,500	16.2	17.1
SM7505525000	55	100	5,000	18.1	15.3
SM7506025500	60	110	5,500	19.9	14.0
SM7506526000	65	120	6,000	21.7	12.8

480 Volt (37 W/Sq. ft.)




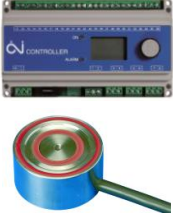

Item Number 480 V Mat	Mat Length (feet)	Heated Area	Watts	Amps	Ohms
SM737112750	11	20	750	1.6	307.2
SM7373022000	30	54	2,000	4.2	115.2
SM7375123500	51	94	3,500	7.3	65.8
SM7376524500	65	120	4,500	9.4	51.2
SM7378025500	80	146	5,500	11.5	41.9
SM7378726000	87	160	6,000	12.5	38.4

480 Volt (50 W/Sq. ft.)

Item Number 480 V Mat	Mat Length (feet)	Heated Area	Watts	Amps	Ohms
SM45052500	5	10	500	1.0	460.8
SM4501121000	11	20	1,000	2.1	230.4
SM4501621500	16	30	1,500	3.1	153.6
SM4502222000	22	40	2,000	4.2	115.2
SM4502722500	27	50	2,500	5.2	92.2
SM4503323000	33	60	3,000	6.3	76.8
SM4503823500	38	70	3,500	7.3	65.8
SM4504424000	44	80	4,000	8.3	57.6
SM4504924500	49	90	4,500	9.4	51.2
SM4505525000	55	100	5,000	10.4	46.1
SM4506025500	60	110	5,500	11.5	41.9
SM4506526000	65	120	6,000	12.5	38.4

ORDERING INFORMATION

Activation Devices – Markers

Item	Item Number	Description	Voltage
	WS-2C	Aerial Mounted Snow Switch (30 amps) Moisture and temperature sensing	120, 240
	WS-5C	Aerial Mounted Snow Switch (60 amps) Moisture and temperature sensing	120, 240
	WS-8C	Aerial Mounted Snow Switch (30 amps) Moisture and temperature sensing Includes remote moisture sensor	120, 240
	WS-AUX	Auxiliary Control Unit for Aerial Mounted Snow Switch	120, 240
	WS-02	Controller and Pavement Mounted Snow Switch Moisture and temperature sensing	120, 240
	Warmplate	Embedded Marker Plate (NEC Required.)	n/a

ORDERING INFORMATION

Contactor Panels



Description	Max Amps	Coil Voltage	Number of Contactors
Single Contactor Panel Used to control power supply and heating cables (120 - 600 V)	50	120, 208-240	1
Dual Contactor Panel. Used to control power supply and heating cables (120 - 600 V)	100	120	2
Quad Contactor Panel. Used to control power supply and heating cables (120 - 600 V)	200	120	4
Dual Contactor Panel with GFEP. Used to control power supply and heating cables (120 - 600 V)	100	120	2
Quad Contactor Panel with GFEP. Used to control power supply and heating cables (120 - 600 V)	200	120	4
Light Power management electrical box with 2 x 3 pole for zoning, includes moisture and temperature sensor (120 - 600 V)	130	120	2 + 1
Commercial Power management electrical box with 4 x 3 pole for zoning, includes moisture and temperature sensor (120 - 600 V)	230	120	4 + 1

WARRANTY INFORMATION

ClearZone Mats: 10-year limited warranty against defects in material, design, and workmanship.

Controls and activation devices: 2-year limited warranty.

ClearZone heat cable is CSA approved for both the U.S. and Canada.



TECHNICAL SUPPORT

For technical questions, please contact Warmzone at 1.888.488.WARM (9276) or via the web - www.warmzone.com.

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