HEATIZON SYSTEMS

RADIANT HEATING SYSTEMS

- **SNOW MELTING**
- FLOOR WARMING
- SPACE HEATING
- ROOF DEICING
- GUTTER DEICING

SnowMeltz

Supplemental Installation Manual for Expanded Kits

Heatizon Systems is glad to offer product phone support for the SnowMeltz® product. It is VERY important to have read this supplemental manual AND the primary SnowMeltz Manual. Please have your resistance test numbers and system model name/ number available BEFORE calling for technical support.

SnowMeltz

Distributed by:
Heatizon Systems
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The SnowMeltz® Heating Cable comes in pre-established lengths that have been designed to deliver a specified heat density. Therefore, it is essential that all of the SnowMeltz® Heating Element contained in the kit be installed. ***Do not cut or alter the heating cable in any way***.

In order to minimize the risk of damage to the SnowMeltz® Heating Cable, Heatizon Systems recommends that the SnowMeltz® Cable be installed immediately prior to the installation of the cementitious material that it is embedded in.

Never cross the SnowMeltz® Heating Cable over itself or any other conductor or wire and always embed the heating cable and connection to cold leads.

When installing Heatizon Systems products, strict compliance with the National Electrical Code, Canadian Electrical Code, Local Building Codes, and Heatizon's Installation Manual is essential.

It is highly recommend to take photographs to document the installed SnowMeltz® for future reference before completing installation.

WARNING: Shock and fire hazard

- If the SnowMeltz® System is damaged or not installed properly, fire or shock could occur resulting in serious personal injuries or damage to property. Carefully follow the warnings and instructions contained in this manual.
- It is important that this equipment is installed only by qualified persons who are familiar with the proper sizing, installation, construction and operation of snow melting systems and the hazards involved.
- The installation must comply with all national and local electrical codes. Consult the authority having jurisdiction familiar with these requirements, either the NEC (National Electric Code), CEC (Canadian Electric Code) should there be any questions.
- The SnowMeltz® System is designed for Concrete, Asphalt, and Sand (paver) exterior heating purposes only. Be sure that the surface will be completed in such a way to not cause mechanical damage to this system in the future.
- If the SnowMeltz® System is damaged, it must be replaced or repaired. To repair or splice any part of the system, use only Heatizon SnowMeltz® Repair Kit (part number SMRPKIT).

1. General Guidelines

1.1 Use of the Manual

This manual describes the Expanded SnowMeltz® heating system — how to design the space and install these larger systems. It is important to thoroughly review this manual and the primary SnowMeltz manual, and any other included instructions, and the Activator Installation and Operation Manual prior to installation:

For additional information regarding any aspect of the SnowMeltz® System, contact:

Heatizon Systems
4137 South 500 West
Murray, UT 84123 USA
Tel: 888-239-1232
Tel: 801-293-1232
Fax: 801-293-3077
info@heatizon.com
heatizon.com

1.2 Safety Guidelines

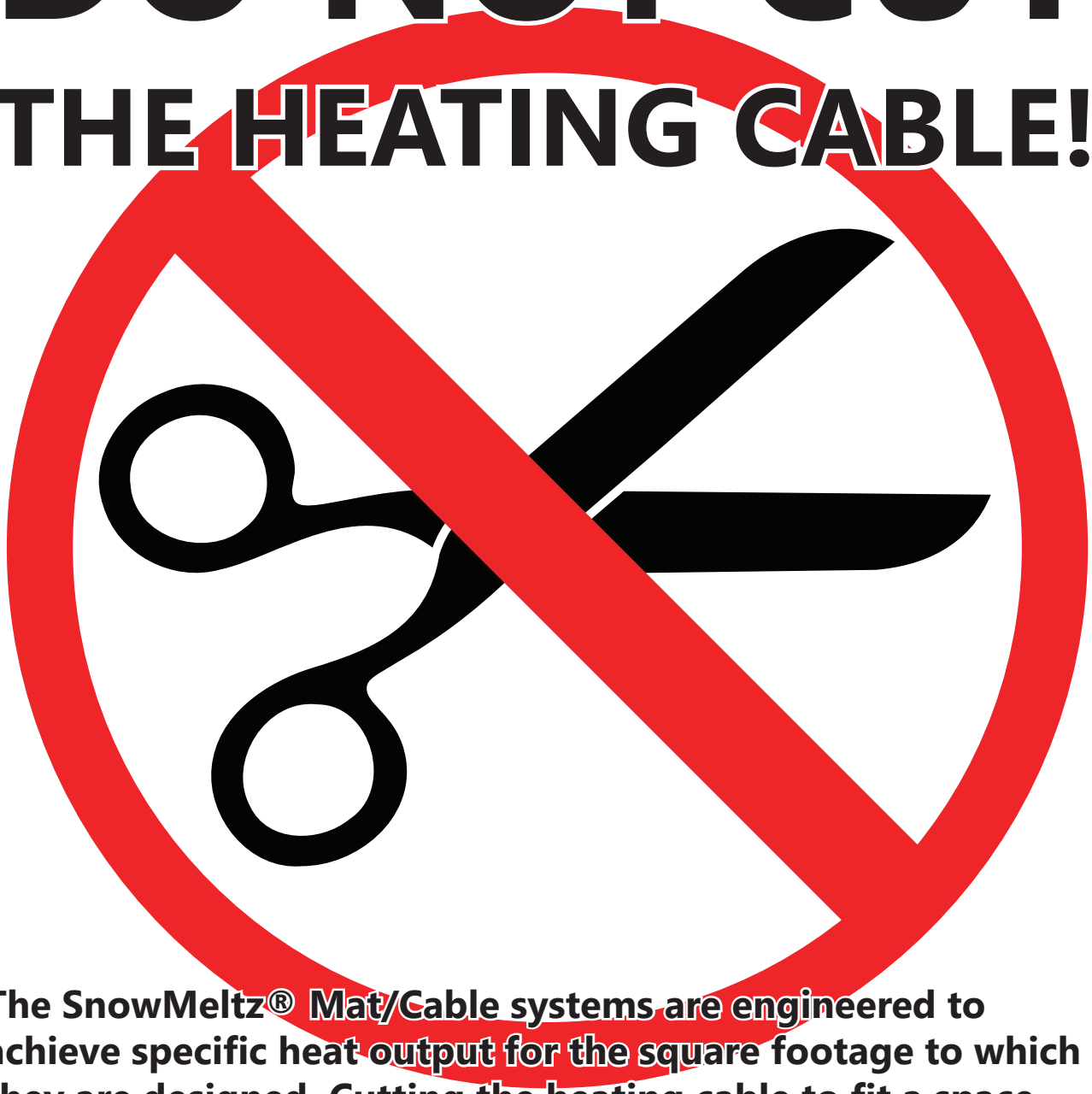
The safety and reliability of any snow melting system depends on proper design, installation, and testing. Incorrect installation or mishandling of the product can cause damage to the heating cable, system components and property, and can create a risk of fire or shock. The guidelines and instructions contained in this guide are important. Follow them carefully to minimize these risks and to ensure that the SnowMeltz® System performs as designed.

Pay special attention to the following:

- **Instructions Marked:** 

- **Safety Warnings:** 

DO NOT CUT THE HEATING CABLE!



The SnowMeltz® Mat/Cable systems are engineered to achieve specific heat output for the square footage to which they are designed. Cutting the heating cable to fit a space is extremely dangerous and can result in a fire. Do not cut the heating cable to avoid an obstacle, use other methods as described in this manual. Make sure to avoid damaging/ cutting the heating cable during/after the installation of the substrate by being aware of all heating cable locations.

Consult the TROUBLESHOOTING section of the installation manual in the event that the cable is damaged or cut by accident.

1.3 Remember to Measure Resistance

The resistance between the two conductor wires must be measured. Compare this resistance reading to the charts in the primary SnowMeltz® manual. The value should be within ±10%. Also measure the resistance between each of the two conductors and the shielding/ground wire. Both should read infinity or open. These tests should be performed on each SnowMeltz mat in a kit. If there are different than expected readings for any of these measurements are observed, contact Heatizon Systems at 888-239-1232. Please refer to Section 5 (Required Tests) for instructions on how to measure the resistance.

NOTE:

Important: measure the resistance four times during the installation process
Remember to always measure, verify and record the actual resistance throughout the installation process (out of the box, after installation, after covering with substrate material, and prior to connecting the activator/panel).

1.4 Limited Warranty

For a period of ten (10) years and while in possession of the original owner, Heatizon warrants that the SnowMeltz® heating cable is free from defects in material, design and workmanship. The warranty is only valid if the warranty certificate has been properly completed, and the installation is in accordance with the installation instructions.

2. Expanded SnowMeltz® Installation Design

2.1 Gathering Site Information

- Size and layout of area - Be sure to properly measure the area to be installed to ensure the proper sized SnowMeltz® system has been purchased. Also plan how power will be run to the area and/or connected to the cold lead(s).
- Follow all other guidelines in primary SnowMeltz Manual

2.2 Determine the Voltage and Amperage

Expanded SnowMeltz kits are only to be run at 240V. Based on the size system purchased, use the appropriate size and number of breakers.

Breaker Size (Amps)	Max Load (Amps)
50	40
40	32
30	24

Important: Operating SnowMeltz® at improper design voltages will damage the system and void the warranty.

2.3 Choose the Right Size

Expanded SnowMeltz must be placed in the appropriate size area. Best practice is to order a kit that is AT LEAST 10-20% smaller than the area to be heated. This is to account for spacing between mats and perimeter spacing. DO NOT ORDER a kit that is the same size or slightly larger than the area to be heated. REMINDER: THE HEATING ELEMENT CANNOT BE CUT.

2.4 Expanded (Large) Kit Sizes

Large expanded SnowMeltz kits are designed to run using 2 dedicated, Ground Fault protected circuits (required), either 20, 30 or 40 amp (240VAC) depending on area size.

SnowMeltz® Large Kits - 37 Watts/Ft2 @240VAC - Dual Circuits

Heatizon Part Number	Total Watts	Included Mats and Quantity	Total Amps @ 240V	Circuits/ Sizes	Watts/ Sqft 240V	Coverage Area/Square Foot	Mat Lengths	Mat Widths	Cold Lead Lengths/ AWG
SM-50W277-37W240-200	7400	SM-50W277-37W240-100(x2)	30	2x 20A	37	200	50′	24″	20′/10
SM-50W277-37W240-220	8140	SM-50W277-37W240-50(x2)	34	2x 30A		220	25′		20′/14
		SM-50W277-37W240-60(x2)					30′		20′/14
SM-50W277-37W240-240	8880	SM-50W277-37W240-60(x4)	37	2x 30A		240	30′		20′/14
SM-50W277-37W240-270	9990	SM-50W277-37W240-60(x2)	42	2x 30A		270	30′		20′/14
		SM-50W277-37W240-75(x2)					37′		20′/14
SM-50W277-37W240-290	10730	SM-50W277-37W240-60(x2)	45	2x 30A		290	30′		20′/14
		SM-50W277-37W240-85(x2)					43′		20′/10
SM-50W277-37W240-300	11100	SM-50W277-37W240-75(x4)	46	2x 30A		300	37′		20′/14
SM-50W277-37W240-320	11840	SM-50W277-37W240-75(x2)	49	2x 40A		320	37′		20′/14
		SM-50W277-37W240-85(x2)					43′		20′/10
SM-50W277-37W240-340	12580	SM-50W277-37W240-85(x4)	52	2x 40A		340	43′		20′/10
SM-50W277-37W240-370	13690	SM-50W277-37W240-85(x2)	57	2x 40A		370	43′		20′/10
		SM-50W277-37W240-100(x2)					50′		20′/10
SM-50W277-37W240-380	14060	SM-50W277-37W240-60(x2)	59	2x 40A		380	30′		20′/14
		SM-50W277-37W240-130(x2)					65′		20′/10

Kits come with the following components (see list above for specifics):

- SnowMeltz Mats
- Jumper kits
- Activator (M326ARS-2Z)
- Manuals

2.5 Expanded (Jumbo) Kit Sizes

Jumbo expanded SnowMeltz kits are designed to run using multiple dedicated circuits, all (240VAC) depending on area size.

SnowMeltz® Large Kits - 37 Watts/Ft2 @240VAC - Multiple Circuits

Heatizon Part Number	Total Watts	Included Mats and Quantity	Total Amps @ 240V	Circuits/ Sizes	Watts/ Sqft 240V	Coverage Area/Square Foot	Mat Lengths	Mat Widths	Cold Lead Lengths/ AWG
SM-50W277-37W240-410	15170	SM-50W277-37W240-75(x2)	64	2x 40A	37	410	37′	24″	20′/14
		SM-50W277-37W240-130(x2)					65′		20′/10
SM-50W277-37W240-615	22755	SM-50W277-37W240-75(x3)	96	3x 40A		615	37′		20′/14
		SM-50W277-37W240-130(x3)					65′		20′/10
SM-50W277-37W240-820	30340	SM-50W277-37W240-75(x2)	128	4x 40A		820	37′		20′/14
		SM-50W277-37W240-130(x2)					65′		20′/10
SM-50W277-37W240-1040	38480	SM-50W277-37W240-130(x8)	160	4x 50A		1040	65′		20′/10

Kits come with the following components (see list above for specifics):

- SnowMeltz Mats
- Jumper kits
- Activator (M326ARS)
- M530 Contactor Panel
- Manuals

3. SnowMeltz Expanded System Circuit Design

In order to ensure proper load balancing on circuits, the SnowMeltz expanded kits have been designed to use combinations of mats on specific circuits:

SnowMeltz® Large Kits - 37 Watts/Ft2 @240VAC - Dual Circuits

Heatizon Part Number	Circuit Number/ Amperage	Mats	Amps Per Mat @ 240V	Amps Per Circuit @ 240V	Mat(s) Square Footage	Mat Lengths
SM-50W277-37W240-200	1 - 20A	SM-50W277-37W240-100	15	15	100	50′
	2 - 20A	SM-50W277-37W240-100	15	15	100	50′
SM-50W277-37W240-220	1 - 30A	SM-50W277-37W240-50	7.7	17	50	25′
		SM-50W277-37W240-60	9.3		60	30′
	2 - 30A	SM-50W277-37W240-50	7.7	17	50	25′
		SM-50W277-37W240-60	9.3		60	30′
SM-50W277-37W240-240	1 - 30A	SM-50W277-37W240-60(x2)	9.3	19	60	30′
	2 - 30A	SM-50W277-37W240-60(x2)	9.3	19	60	30′
SM-50W277-37W240-270	1 - 30A	SM-50W277-37W240-60	9.3	21	60	30′
		SM-50W277-37W240-75	11.6		75	37′
	2 - 30A	SM-50W277-37W240-60	9.3	21	60	30′
		SM-50W277-37W240-75	11.6		75	37′
SM-50W277-37W240-290	1 - 30A	SM-50W277-37W240-60	9.3	22	60	30′
		SM-50W277-37W240-85	13.1		85	43′
	2 - 30A	SM-50W277-37W240-60	9.3	22	60	30′
		SM-50W277-37W240-85	13.1		85	43′
SM-50W277-37W240-300	1 - 30A	SM-50W277-37W240-75(x2)	11.6	23	75	37′
	2 - 30A	SM-50W277-37W240-75(x2)	11.6	23	75	37′
SM-50W277-37W240-320	1 - 40A	SM-50W277-37W240-75	11.6	25	75	37′
		SM-50W277-37W240-85	13.1		85	43′
	2 - 40A	SM-50W277-37W240-75	11.6	25	75	37′
		SM-50W277-37W240-85	13.1		85	43′
SM-50W277-37W240-340	1 - 40A	SM-50W277-37W240-85(x2)	13.1	26	85	43′
	2 - 40A	SM-50W277-37W240-85(x2)	13.1	26	85	43′
SM-50W277-37W240-370	1 - 40A	SM-50W277-37W240-85	13.1	29	85	43′
		SM-50W277-37W240-100	15.4		100	50′
	2 - 40A	SM-50W277-37W240-85	13.1	29	85	43′
		SM-50W277-37W240-100	15.4		100	50′
SM-50W277-37W240-380	1 - 40A	SM-50W277-37W240-60	9.3	30	60	30′
		SM-50W277-37W240-130	20		130	65′
	2 - 40A	SM-50W277-37W240-60	9.3	30	60	30′
		SM-50W277-37W240-130	20		130	65′

Important: DO NOT OVERLOAD CIRCUITS!
Follow the load balancing chart to ensure the appropriate loads are on specific circuits. It is also important to use breakers that are called for to be able to achieve the desired amount of power required.

SnowMeltz® Jumbo Kits - 37 Watts/Ft2 @240VAC - Multiple Circuits

Heatizon Part Number	Circuit Number/ Amperage	Mats	Amps Per Mat @ 240V	Amps Per Circuit @ 240V	Mat(s) Square Footage	Mat Lengths
SM-50W277-37W240-410	1 - 40A	SM-50W277-37W240-75	11.6	32	75	37′
	1 - 40A	SM-50W277-37W240-130	20		130	65′
	2 - 40A	SM-50W277-37W240-75	11.6	32	75	37′
	2 - 40A	SM-50W277-37W240-130	20		130	65′
SM-50W277-37W240-615	1 - 40A	SM-50W277-37W240-75	11.6	32	75	37′
	1 - 40A	SM-50W277-37W240-130	20		130	65′
	2 - 40A	SM-50W277-37W240-75	11.6	32	75	37′
	2 - 40A	SM-50W277-37W240-130	20		130	65′
	3 - 40A	SM-50W277-37W240-75	11.6	32	75	37′
	3 - 40A	SM-50W277-37W240-130	20		130	65′
SM-50W277-37W240-820	1 - 40A	SM-50W277-37W240-75	11.6	32	75	37′
	1 - 40A	SM-50W277-37W240-130	20		130	65′
	2 - 40A	SM-50W277-37W240-75	11.6	32	75	37′
	2 - 40A	SM-50W277-37W240-130	20		130	65′
	3 - 40A	SM-50W277-37W240-75	11.6	32	75	37′
	3 - 40A	SM-50W277-37W240-130	20		130	65′
	4 - 40A	SM-50W277-37W240-75	11.6	32	75	37′
	4 - 40A	SM-50W277-37W240-130	20		130	65′
SM-50W277-37W240-1040	1 - 50A	SM-50W277-37W240-130(x2)	20	40	130	65′
	2 - 50A	SM-50W277-37W240-130(x2)	20	40	130	65′
	3 - 50A	SM-50W277-37W240-130(x2)	20	40	130	65′
	4 - 50A	SM-50W277-37W240-130(x2)	20	40	130	65′

Important: DO NOT OVERLOAD CIRCUITS!
Follow the load balancing chart to ensure the appropriate loads are on specific circuits. It is also important to use properly sized breakers to be able to achieve the desired amount of power required.

When installing SnowMeltz multiple mat systems, be sure to keep track of which mat is going to the appropriate circuit. Mark the cold leads and/or note resistance to keep track.

The use of junction boxes may be required to extend cold leads back to either the activation device or to the contactor panel. Extending/junctioning cold leads MUST be done in accordance with the National Electric Code and any/all local codes. Be sure to note the amps per mat/circuit in order to determine the appropriate conductor and junction box to use. Any junction box used outside MUST be outdoor-rated.

Do not make ANY connections inside of the following activators:
- M326A/2Z
- M326ARS/2Z

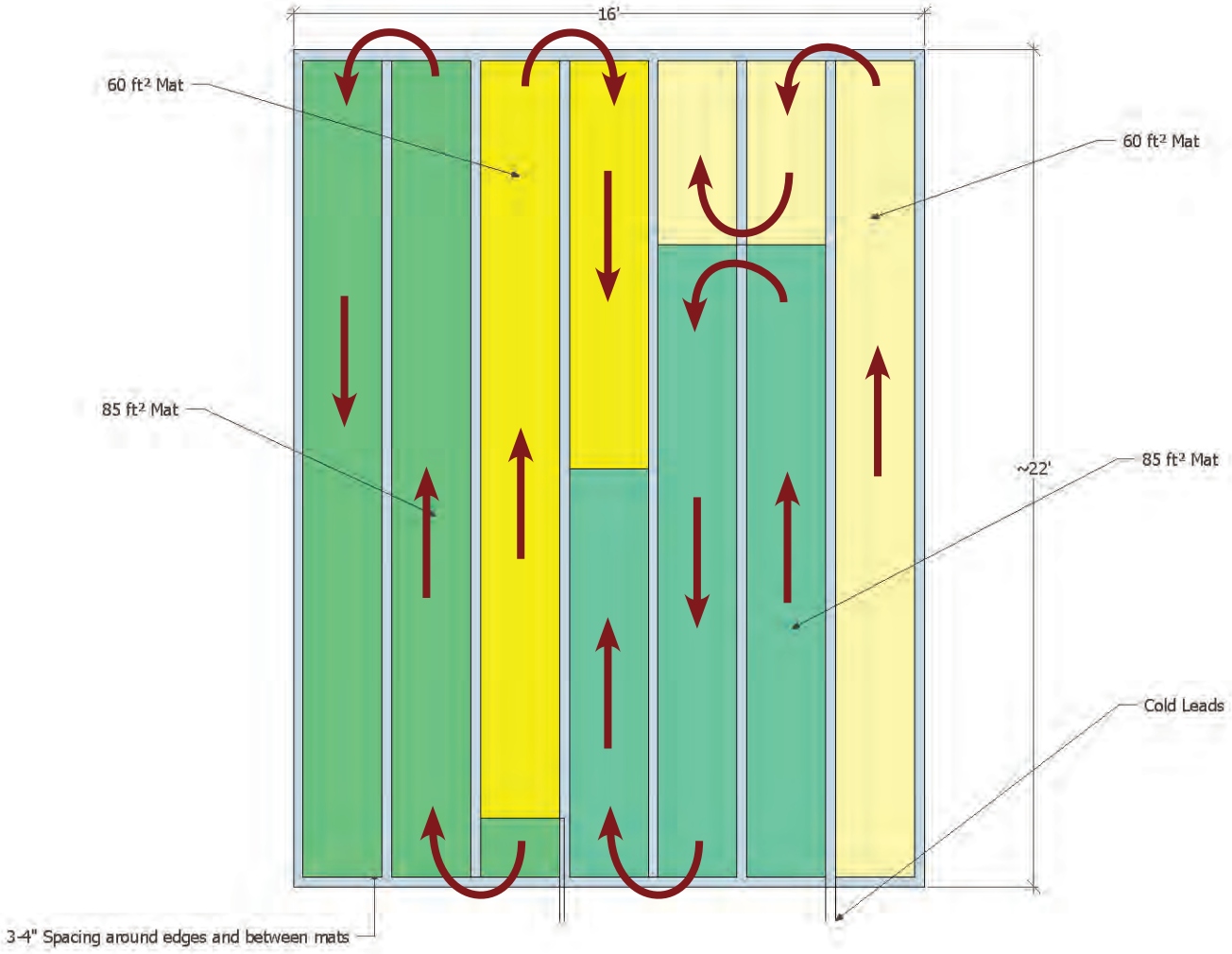
All electrical connections for these devices MUST take place outside of the device, in a outdoor-rated junction box with adequate space for all connections

4. SnowMeltz Expanded Layouts

Laying out SnowMeltz using multiple mats follow the following rules:

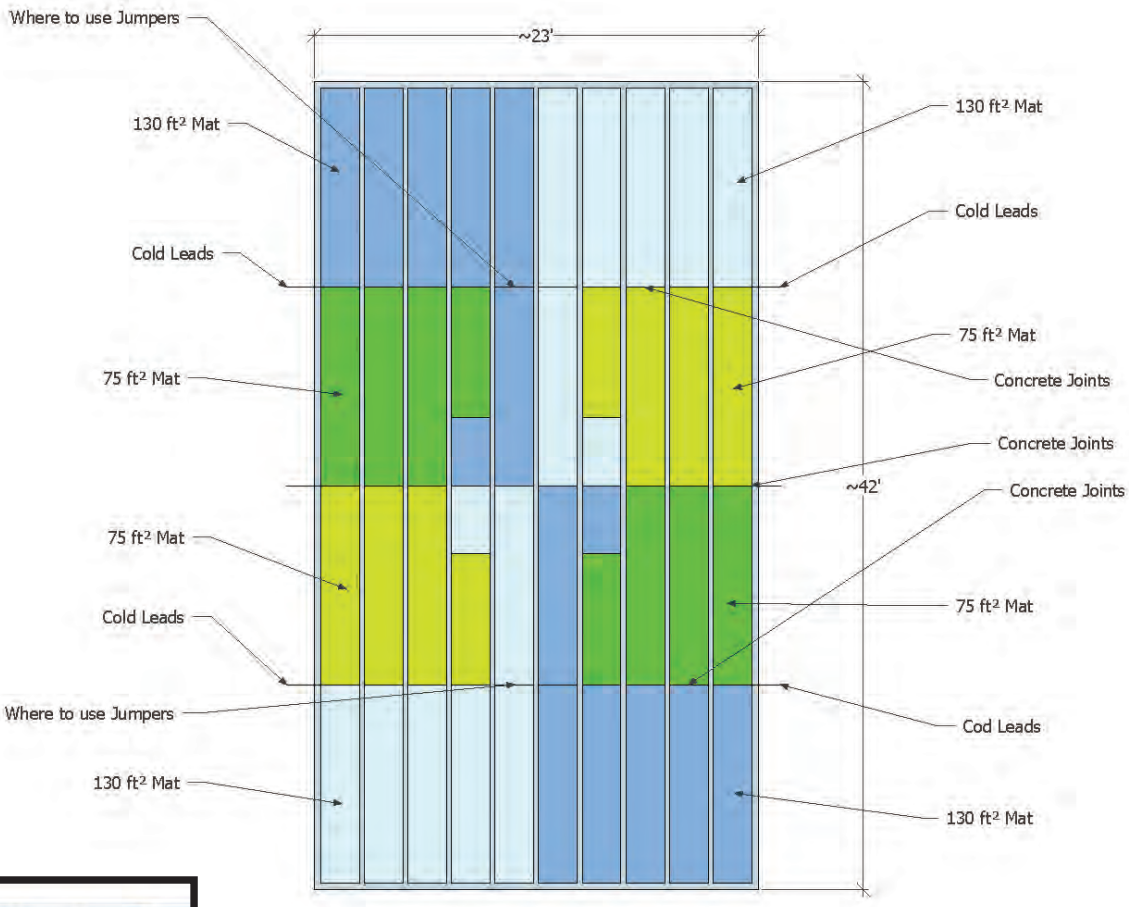
- SnowMeltz CANNOT overlap any other SnowMeltz cold lead, heating element.
- Maintain at least 3 inch spacing between mats and cold leads.
- Spacing mats greater than 5 inches may cause striping (areas of delayed snow/ice melting).
- Mark all control joint locations before doing layout.
- Find appropriate location(s) for contactor* and/or activator.
- Mark tentative location(s) for junction box(es) and activator.
- Layout mats BEFORE applying the substrate. Do not install them at the same time.
- Plan layouts with any/all joints in mind in order to minimize crossing those joints.
- Follow ALL instructions outlined in the primary SnowMeltz instruction manual for installing SnowMeltz mats.

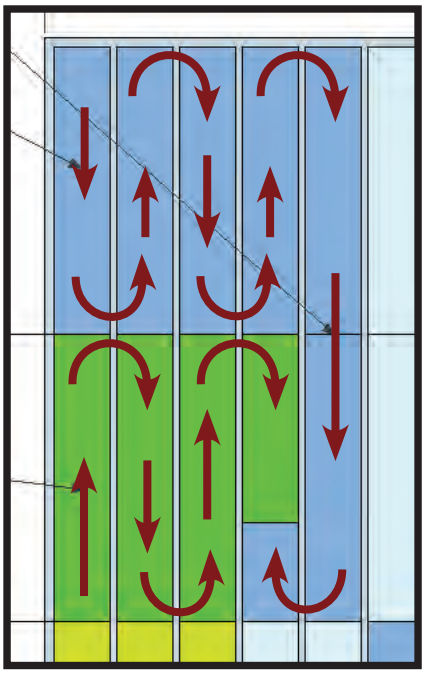
Here are a couple example layouts with the large and jumbo SnowMeltz kits:



Using the SnowMeltz 290 kit (SM-50W277-37W240-290) to fill a space that is approximately 330 square feet, with 3 inch spacing around the perimeter and between mats. This example has no control joints, therefore no jumpers would be used. All the cold leads would meet the incoming power at the activator device (M326ARS-2Z), where all the electrical connections would be made.

Using the SnowMeltz 820 kit (SM-50W277-37W240-820) to fill a space that is approximately 950 square feet, with 4 inch spacing around the perimeter and between mats. This example has control joints about every 10-11 feet. The mats have been laid out to minimize the number of jumpers required. As you can see, the mats are arranged similarly in four quadrants. See the diagram below for mat routing in each quadrant.

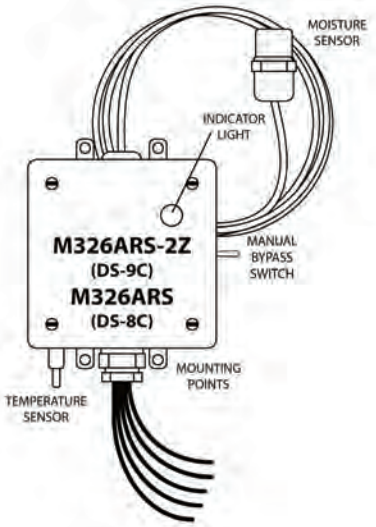




This example would require feeders to each side to junction boxes on either size of the space. These feeder lines should be based on National Electric Code and local codes to carry the appropriate amp load and number of circuits. Any/all junction boxes used should be outdoor-rated.

This example uses 1-130 square foot mat and 1-75 square foot mat in each quadrant, with the 130 square foot mat being the one that crosses the horizontal control joint. This is the point where a jumper would be used to protect the SnowMeltz cable from any potential cracking/physical damage. No vertical control joints are needed to be crossed in this example. Be sure to read and follow all installation instructions regarding joints in the primary SnowMeltz manual (SEE: "A Few Concrete Suggestions").

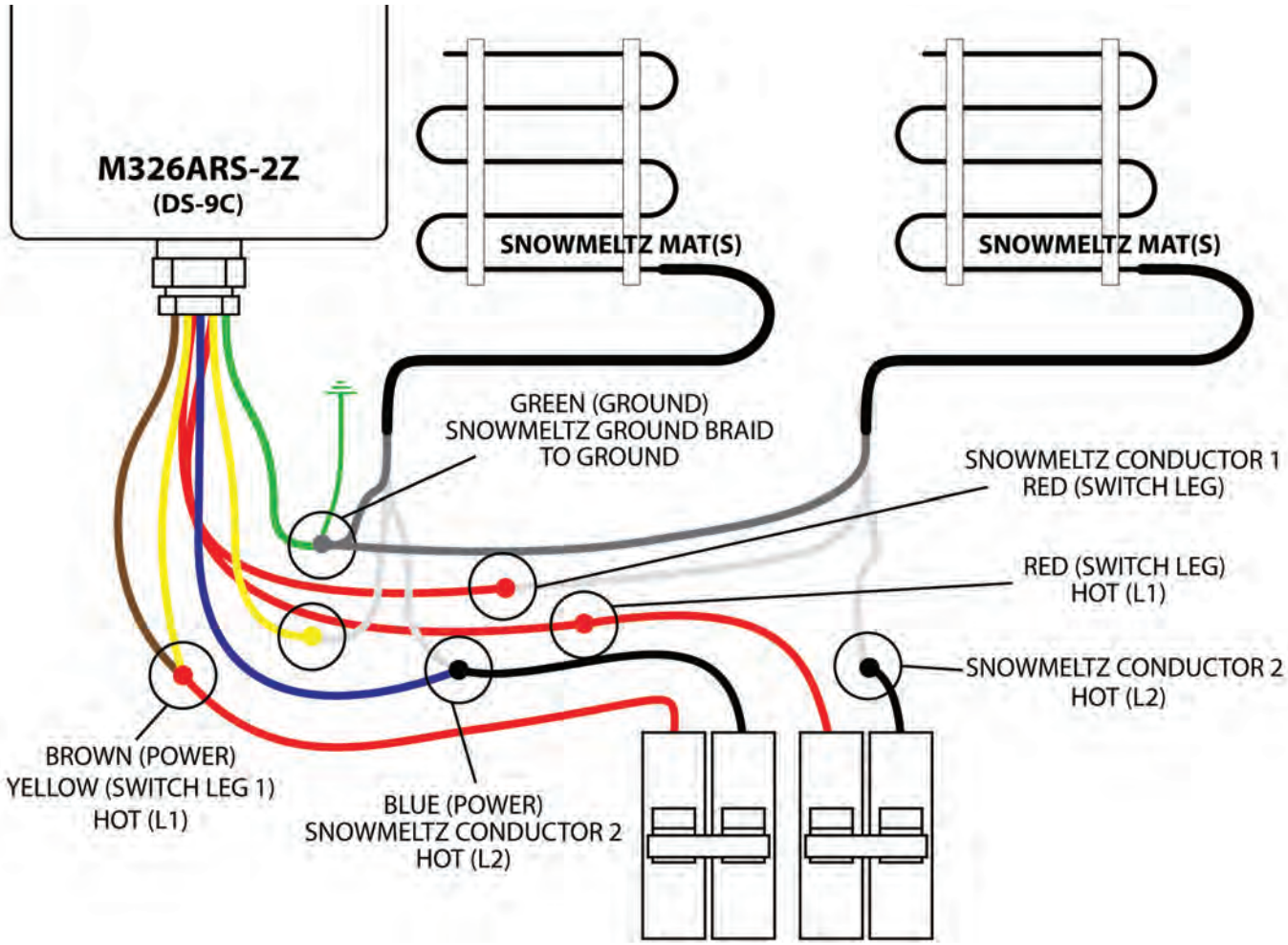
5. Activator Installation
5.1 M326ARS/M326ARS-2Z



The M326ARS/M326ARS-2Z is an automatic temperature and moisture sensor that switches up to 30 amps (M326ARS) and up to two 30 amp loads (M326ARS-2Z). Both have a remote moisture sensor that can be located in a location up to 10 feet away from the main unit, providing for better moisture gathering placement.

For wiring the M326ARS, please refer to the primary SnowMeltz Manual wiring diagram for the M326A as wiring for both units is the same.

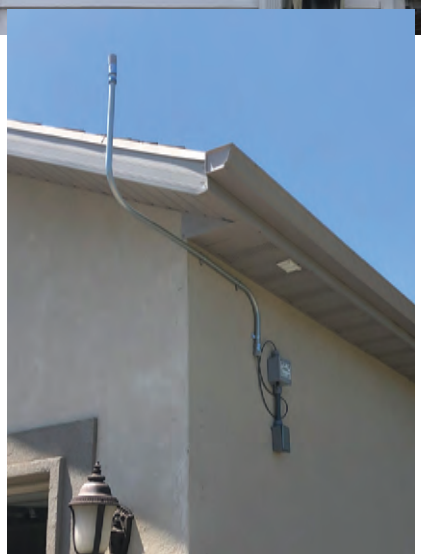
Wiring the M326ARS-2Z using two circuits is as follows:



Important: DO NOT OVERLOAD CIRCUITS
Connect SnowMeltz mats in proper way to ensure adequate load balancing.

5.2 M326ARS/M326ARS-2Z Location

The M326ARS/M326ARS-2Z must be located outside for accurate temperature/moisture reading. The main unit can be mounted on an exterior wall or to a post, provided that all necessary electrical connections can be made. The moisture sensor should be located in such a way that it receives the same exposure to falling moisture as the area being controlled. The sensor head can be located up to 10 feet away from the main M326ARS/ M326ARS-2Z unit.



From the pictures, you can see the main unit and remote sensor are mounted in separate locations in order to maximize moisture detection.

6. Activator & Panel Installation

6.2 M530 Panel Installation

The M530 panel must be located inside, unless a custom outdoor-rated enclosure is used. The location should be free from moisture and reasonably close access to heated area and main circuit panel for making electrical connections.

Please follow all instructions for wiring the M530 provided with the panel

SnowMeltz® Warranty

SnowMeltz
From Heatizon Systems
4137 South 500 West
Murray, Utah 84123
888-239-1232 | heatizon.com

Heatizon Systems warrants SnowMeltz® to be free from defects in material and workmanship for a period of ten (10) years and Activation Device(s) for a period of one (1) year. Such warranty periods shall commence on the date of shipment by Heatizon Systems. If any parts are found to be defective in manufacture during such time period, Heatizon Systems will, at its sole option, replace or repair defective parts.

This Limited Warranty applies only if articles sold hereunder (a) are selected, designed, and installed according to instruction and operation manuals furnished by Heatizon Systems and installed in a "workmanlike manner" according to the building association standards adopted by Heatizon Systems, (b) remain in their originally installed location, (c) are connected to proper power supplies, (d) are not misused or abused, (e) show no evidence of tampering, mishandling, neglect, damage (accidental or otherwise), modifications or repair without the approval of Heatizon Systems, or damage done to the product by anyone other than Heatizon Systems, and (f) are installed in accordance with applicable code requirements. Any warranty claims must be made in writing, no later than one (1) month following expiration of the warranty period, and must be accompanied by the warranted part or component. Any claim not made in such manner shall not be honored by Heatizon Systems.

This Limited Warranty does not cover:

1. The workmanship of any installer of Heatizon Systems radiant panel or cable heating products.
2. Any Heatizon Systems radiant heating products that have a failure or malfunction resulting from improper or negligent operation, installation, accident, abuse, misuse, unauthorized alteration or improper repair or maintenance.
3. Any Heatizon Systems radiant heating products that have had components not purchased from Heatizon Systems integrated into or connected to them.
4. Any labor costs for removal of alleged defective part(s) and/or reinstallation of replacement part(s), transportation to and from Heatizon Systems (if necessary) and any other material necessary to perform the exchange or repair.
5. Any Heatizon Systems heating products that have not been properly registered by completion and return of the Warranty Registration Card attached hereto within ninety (90) days of the date of sale.

DISCLAIMER OF WARRANTIES:

This warranty described above is in lieu of all other warranties, express or implied, including but not limited to any implied warranties of fitness for a particular purpose and merchantability. Heatizon Systems expressly disclaims and excludes any liability for losses, expenses, inconveniences, consequential, incidental, indirect, or punitive damages for breach of any express or implied warranty. By installing and/or purchasing Heatizon Systems products, you accept the terms of this limited warranty.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above limitations and exclusions may not apply to you. This Limited Warranty gives you specific legal rights, and you may also have other rights which may vary from state to state.

HEATIZON SYSTEMS DISCLAIMS ANY WARRANTY NOT PROVIDED HEREIN INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. HEATIZON SYSTEMS FURTHER DISCLAIMS ANY RESPONSIBILITY FOR LOSSES, EXPENSES, INCONVENIENCES, SPECIAL, INDIRECT, SECONDARY, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING FROM OWNERSHIP OR USE OF THE PRODUCT. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE FACE HEREOF.

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SnowMeltz® Installation Registration Form

SnowMeltz
From Heatizon Systems
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Instructions: This form must be completed and returned for each installation. A copy should be retained by the homeowner. An installation is defined as each individual space in which SnowMeltz® is installed such as a driveway, patio, walkway, etc. Each SnowMeltz® shipment includes the following information essential to the proper installation of the products: Installation/Homeowners Manual, Wiring Diagrams, and Megohmmeter and Ohm Readings necessary to test the products. If any of this information is missing from the shipment, please call the dealer or our service department at 1-888-239-1232.

TO ENSURE WARRANTY PROTECTION FOR THE INSTALLATION(S), THE HOMEOWNER OR INSTALLER MUST COMPLETE ALL THE INFORMATION BELOW FOR EACH INSTALLATION AND RETURN THIS FORM TO HEATIZON SYSTEMS AT THE ADDRESS LISTED BELOW WITHIN 10 DAYS OF THE COMPLETED INSTALLATION.

I. Installer Information:

Installer's Name: _____ Installation Date: ___-___-___

Business Address _____

Phone Number: ____-____-_____ Email Address: _____

Name of Company (from which SnowMeltz® was purchased) _____

II. Owner Information:

Owner's Name: _____

Home Address: _____

Phone Number: ____-____-_____ Email Address: _____

Name of Space and Location where installed: _____

III. Products Used in Installation: (List Each SnowMeltz® Mat on a Separate Line)

(Note: "Hot" or "Neutral" in this table indicates the white conductors in the Cold Lead)

Mat or Cable Number	Model #	Total Watts	Volts	METER READINGS											
				Tests after mat has been received				After Mat is customized/cut and installed				After Mat has been embedded in concrete/ asphalt/sand or before final wiring			
				Megger Test	Conductor to Conductor	Conductor to Ground	Conductor to Ground	Megher Test	Conductor to Conductor	Conductor to Ground	Conductor to Ground	Megher Test	Conductor to Conductor	Conductor to Ground	Conductor to Ground
SAMPLE	1x 50	1850	240	532	19.2	Open	Open	532	19.2	Open	Open	532	19.2	Open	Open
#1															
#2															
#3															
#4															
#5															
#6															

Confirmation: The above information was measured and recorded correctly as indicated on the measuring instrument, and the enclosed drawing shows the final layout of the products and the electrical connections.

Installer's Signature: _____