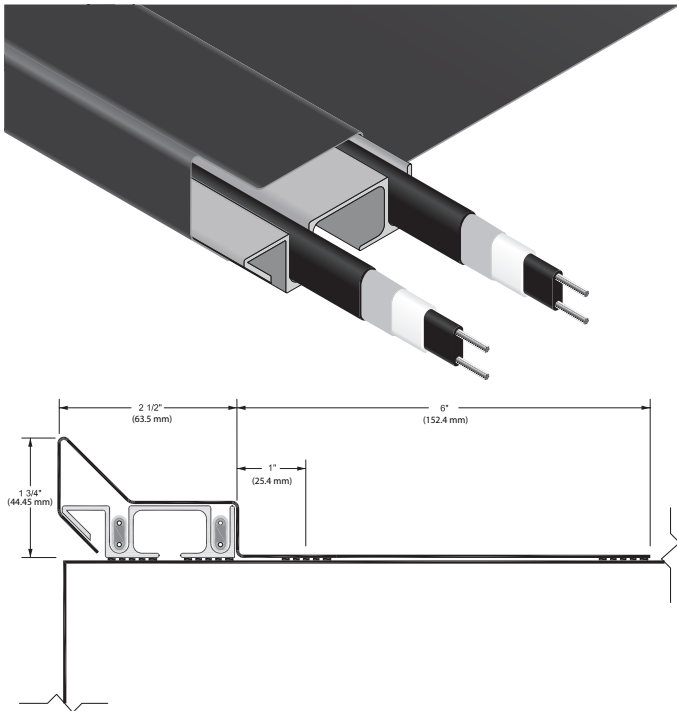


Rake panel system for concealed roof & gutter de-icing



PRODUCT OVERVIEW

nVent RAYCHEM Roof Ice Melt (RIM) systems are designed to eliminate icicles and ice dam problems in a wide range of applications.

The nVent RAYCHEM RIM Rake (RIM-R) system is used for de-icing on roof rakes to provide a heated path for snow melt down to the eave or gutter.

The system consists of high wattage nVent RAYCHEM IceStop electric heating cable, Aluminum extrusion designed to fit the cable, and a cover panel for efficient heat transfer.

RIM-R channel panels embed two runs of high wattage self-regulating cables and have a ledge on the cover panel to direct the snow melt flow.

RIM systems provide:

- Long term roof deicing solution by mechanically protecting the heating cable
- Aesthetically pleasing solution by concealing the heating cable
- High performance and reliable solution for heavy snow load areas

CATALOG NUMBER

RIM-R, RIM Rake System	Copper
RIM-R, RIM Rake System	Aluminum

CONTENTS

RIM-R	Extrusion (1 ft per foot of RIM-R)
	Cover Panel (1 ft per foot of RIM-R)
	IceStop Heating Cable (2 ft per foot of RIM-R)

MATERIALS OF CONSTRUCTION

Extrusion	Aluminum
Cover Panel	Aluminum
	Copper
	Custom
	Note: Refer to the RIM color guide (H59379) for a complete list of options.

ADDITIONAL MATERIALS (AS REQUIRED)

Power Connection kits (WPCK-R)	Contains a heat shrink power connection and end seal designed for RIM systems
Splice/Tee Connection kits (FTC-HST-PLUS)	Heat shrink splice or tee kit designed for RIM systems
RIM Adhesive/Sealant	Silicone adhesive for RIM systems
	Note: Only approved connection kits and accessories must be used with RIM systems. Refer to the RIM design guide (H59561) for proper selection.
End Seal kits	Heat shrink end seal kit designed for RIM systems

PRODUCT SPECIFICATIONS (NOMINAL)

Power Output	24 W/ft of RIM-R (79 W/m of RIM-R) in snow or ice
Minimum Installation Temperature	0°F (-18°C)
Overall Cover Dimensions	Width: 8 1/2 in (216 mm) Height: 1 3/4 in (45 mm)
Overall Extrusion Dimensions	Width: 1 7/8 in (48 mm) Thickness: 3/4 in (19 mm)
Weight	751 lb/1000 ft (1117 kg/km)

HEATING CABLE SPECIFICATIONS (NOMINAL)

Voltage	IceStop GM-1X: 120 Vac IceStop GM-2X: 208-277 Vac
Minimum Bend Radius	5/8 in (16 mm)

MAXIMUM CIRCUIT LENGTH IN FEET (METERS)

	Start-up temperature	Circuit breaker size							
		15 A		20 A		30 A		40 A	
GM-1X at 120 volts	32°F (0°C)	100	(30)	135	(41)	200	(61)	–	
	20°F (-7°C)	95	(29)	125	(38)	185	(56)	200	(61)
	0°F (-18°C)	80	(24)	100	(30)	155	(47)	200	(61)
GM-2X at 208 volts	32°F (0°C)	190	(58)	250	(76)	380	(116)	–	
	20°F (-7°C)	180	(55)	235	(72)	355	(108)	380	(116)
	0°F (-18°C)	145	(44)	195	(59)	290	(88)	380	(116)
GM-2X at 240 volts	32°F (0°C)	200	(61)	265	(81)	400	(122)	–	
	20°F (-7°C)	190	(58)	250	(76)	370	(113)	400	(122)
	0°F (-18°C)	155	(47)	205	(62)	305	(93)	400	(122)
GM-2X at 277 volts	32°F (0°C)	215	(66)	290	(88)	415	(126)	–	
	20°F (-7°C)	200	(61)	265	(81)	400	(122)	415	(126)
	0°F (-18°C)	165	(50)	225	(69)	330	(101)	415	(126)

APPROVALS

The IceStop heating cables are UL Listed and CSA Certified only when used with the appropriate agency-approved nVent RAYCHEM connection kits and accessories. For approvals information, refer to the IceStop heating cable data sheet (H56428).

GROUND-FAULT PROTECTION

To minimize the danger of fire from sustained electrical arcing if the heating cable is damaged or improperly installed, and to comply with the requirements of nVent, agency certifications, and national electrical codes, ground-fault equipment protection must be used on each heating cable branch circuit. Arcing may not be stopped by conventional circuit protection. Many nVent RAYCHEM control and monitoring systems meet the ground-fault protection requirement.

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