



PRODUCT DESCRIPTION

nVent RAYCHEM SBS-R-EM control panels provide an integrated solution for the control of RAYCHEM self-regulating heating cables and constant wattage heating mats for surface snow melting applications.

The control panels comprise the energy efficient, multi-sensor RayStat-M2 controller. The control panels monitor the surface temperature and surface moisture and switch on the snow melting system only when required.

The SBS-R-EM panels are available in 1, 3, and 6 heating circuit versions, with 20A switching capability per circuit.

The panels also include electrical circuit protection devices (C-type circuit breakers and RCD protection) for safety, peace of mind, and electrical regulation compliance.

ADVANTAGES

- Integrated electrical safety and control, panel for single/multiple heating circuits from the heat tracing manufacturer.
- Designed specifically for RAYCHEM self-regulating heating cables and constant wattage heating mats.
- Multi-sensor control system for energy efficiency optimisation.
- Everything in a single control panel. Simply add a power supply.
- Complete warranted solution from the manufacturer.

TECHNICAL DATA

Control	RAYCHEM RayStat-M2 control device, pre-installed and electrically connected
Supply voltage	230Vac 50/60Hz
Setpoint temp.	Programmable by the user
Sensor (Ground Temp/Moisture)	RayStat-M2-G-Sensor (Ordered Separately.)
Panel Approval	CE (Approved to IEC61439-1)
Main switch	40A
RCD	30mA
Line circuit breakers	20A Type C characteristic per heating circuit
Approvals	CE marked

RELATED PRODUCTS

The SBS-R-EM control panels are compatible with the RAYCHEM surface snow melting heating cables and mats:

- EM2-XR
- EM2-R
- EM2-CM mats

TECHNICAL DATA

Control	RayStat-M2
Panel Colour	Light Grey
Protection Class	IP65 Plastic Enclosure / IP66 Metal Enclosure
Installation location	Indoor
Ambient Temperatures	+5°C to +35°C.
Cable Apertures	Plastic Enclosures = Panel with metric Breakaway apertures Metal Enclosures = Panel with metric Breakaway apertures.
Power Supply	230Vac, 50Hz or 400V/230Vac, 50Hz, 3L/N/PE.
Panel Material	1 & 3 circuit panel (Plastic enclosure), 6 circuit panel (Metal Enclosure).

ENCLOSURE TYPE

		SBS-R-EM-1x20A	SBS-R-EM-3x20A	SBS-R-EM-6x20A
Number of Heating Circuits		1	3	6
Enclosure type		Plastic	Plastic	Metal
Dimension	Width (mm)	310	310	600
	Height (mm)	436	586	600
	Depth (mm)	148	148	210
Heater circuit	Amps	1 x 20A	3 x 20A	6 x 20A
Electrical Protection	Amps	1 x 20A	3 x 20A	6 x 20A
Weight	kg	4,39	6,52	30,46

ORDER REFERENCE

Product Name	Order Reference	Description
SBS-R-EM-1x20A	1244-016636	Surface snow melting control panel for 1 circuit of RAYCHEM self-regulating heating cable (Max. Circuit: 20Amps)
SBS-R-EM-3x20A	1244-016637	Surface snow melting control panel for up to 3 circuits of RAYCHEM self-regulating heating cables (Max. Circuit: 20Amps)
SBS-R-EM-6x20A	1244-016638	Surface snow melting control panel for 3 circuits of RAYCHEM Self-regulating heating cables (Max. Circuit: 20Amps)
RayStat-M2-G-SENSOR	1244-016964	Ground Temperature and moisture sensor for the RayStat-M2 controller and SBS-R-EM panel range. (The sensor is sold separately from the SBS-R-EM panel to allow installation into the floor surface prior to the installation of the control panel.)

INSTALLATION INSTRUCTIONS

Complete panel wiring information and schematics are provided with the product. All electrical installations must be carried out by an approved electrician in compliance with local electrical requirements and norms.

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