

# SBS-R-EM Control Panel for Roof & Gutter De-Icing and Surface Snow Melting



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 roof & gutter de-icing and 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, 6 and 9 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.

## FEATURES

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 warrantied solution from the manufacturer.

## SPECIFICATIONS

<b>Phase Quantity:</b>	3
<b>Protection:</b>	Miniature- / Earth Leakage Circuit Breaker
<b>Mounting:</b>	Wall Mounted
<b>Over Voltage Protection:</b>	Yes

Table 1/3

Catalog Number	Item Name	E-Number	IP Rating	Group Quantity	Circuit Breaker Quantity	Circuit Breaker
1244-016636	SBS-R-EM-1X20A	3418440	IP65	1	1	20 A, Type C
1244-016637	SBS-R-EM-3X20A	3418441	IP65	1	3	20 A, Type C
1244-021413	SBS-R-EM-1X10A		IP65	1	1	10 A, Type C
1244-021414	SBS-R-EM-3X10A		IP65	1	3	10 A, Type C
1244-021417	SBS-R-EM-1X16A		IP65	1	1	16 A, Type C
1244-021418	SBS-R-EM-3X16A		IP65	1	3	16 A, Type C
1244-016638	SBS-R-EM-6X20A	3418442	IP66	2	6	20 A, Type C
1244-021415	SBS-R-EM-6X10A		IP66	2	6	10 A, Type C
1244-021419	SBS-R-EM-6X16A		IP66	2	6	16 A, Type C
1244-021416	SBS-R-EM-9X10A		IP66	3	9	10 A, Type C
1244-021420	SBS-R-EM-9X16A		IP66	3	9	16 A, Type C
1244-021421	SBS-R-EM-9X20A		IP66	3	9	20 A, Type C

Table 2/3

Catalog Number	Item Name	E-Number	Main Switch Current Rating	Circuit Breaker Quantity, 30 mA	Height	Width
1244-016636	SBS-R-EM-1X20A	3418440	40	1	436	310

CatalogNumber	Item Name	E-Number	Main Switch Current Rating	Circuit Breaker Quantity, 30mA	Height	Width
1244-016637	SBS-R-EM-3X20A	3418441	40	1	586	310
1244-021413	SBS-R-EM-1X10A		40	1	436	310
1244-021414	SBS-R-EM-3X10A		40	1	586	310
1244-021417	SBS-R-EM-1X16A		40	1	586	310
1244-021418	SBS-R-EM-3X16A		40	1	436	310
1244-016638	SBS-R-EM-6X20A	3418442	40	2	600	600
1244-021415	SBS-R-EM-6X10A		40	2	600	600
1244-021419	SBS-R-EM-6X16A		40	2	600	600
1244-021416	SBS-R-EM-9X10A		40	3	800	800
1244-021420	SBS-R-EM-9X16A		40	3	800	800
1244-021421	SBS-R-EM-9X20A		40	3	800	800

Table 3/3

Catalog Number	Item Name	E-Number	Depth	Housing Material
1244-016636	SBS-R-EM-1X20A	3418440	148	Plastic
1244-016637	SBS-R-EM-3X20A	3418441	148	Plastic
1244-021413	SBS-R-EM-1X10A		148	Plastic
1244-021414	SBS-R-EM-3X10A		148	Plastic
1244-021417	SBS-R-EM-1X16A		148	Plastic
1244-021418	SBS-R-EM-3X16A		148	Plastic

Catalog Number	Item Name	E-Number	Depth	Housing Material
1244-016638	SBS-R-EM-6X20A	3418442	210	Metal
1244-021415	SBS-R-EM-6X10A		210	Metal
1244-021419	SBS-R-EM-6X16A		210	Metal
1244-021416	SBS-R-EM-9X10A		800	Metal
1244-021420	SBS-R-EM-9X16A		800	Metal
1244-021421	SBS-R-EM-9X20A		800	Metal

## WARNING

nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at [www.nvent.com](http://www.nvent.com) and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.

### North America

Tel +1.800.545.6258  
 Fax +1.800.527.5703  
[thermal.info@nvent.com](mailto:thermal.info@nvent.com)

### Europe, Middle East,

**Africa**  
 Tel +32.16.213.511  
 Fax +32.16.213.604  
[thermal.info@nvent.com](mailto:thermal.info@nvent.com)

### Asia Pacific

Tel +86.21.2412.1688  
 Fax +86.21.5426.3167  
[cn.thermal.info@nvent.com](mailto:cn.thermal.info@nvent.com)

### Latin America

Tel +1.713.868.4800  
 Fax +1.713.868.2333  
[thermal.info@nvent.com](mailto:thermal.info@nvent.com)

Our powerful portfolio of brands:

**RAYCHEM PYROTENAX TRACER NUHEAT**