

### Control Panels

#### DESCRIPTION



The nVent RAYCHEM SBS-XX-VV-20 control panel for ice and snow prevention systems provides a totally integrated electrical safety, connection and control solution for RAYCHEM EM2-XR self regulating heating in reinforced concrete surfaces.

The control panel comprises the VIA-DU-20 multisensor control unit for energy-efficient ground surface heating, and integrated electrical safety devices. The SBS-xx-VV-20 panels offer solutions up to 12 maximum circuits of EM2-XR.

The panel also includes electrical circuit protection devices (C-type circuit breakers) and residual current devices for safety and peace of mind. The panels need only be connected to the 400Vac (3 phase) supply.

#### ADVANTAGES

Fast connection of multiple circuits directly into the control panel

- No need for additional connections terminals
  - 3-12 circuit can be connected and switched by a single panel
  - Circuit protection and safety devices integrated into the panel
- No need for separate safety devices
  - Complete system from the manufacturer
- System and components specifically selected for high performance ice and snow prevention system control

#### TECHNICAL DATA

Control	VIA-DU-20 multi-sensor control unit
Incoming power supply	400V (3 Phase)
Heater circuit supply voltage	230Vac 50/60Hz
Sensor	Ground temperature, moisture, and ambient temperature sensors
Approval	CE (IEC61439)
Mains switch	Dependent on selected panel (63A-160A)
RCD	30mA
Line Circuit breakers	32A (Type C) per 3 heater circuit group
Panel Material	Coated Metal
IP Rating	IP65
Ambient temperatures	+10°C to +35°C
Colour	RAL 7035 (Light Grey)
Location	Indoor
Selector Switch	Auto/Manual heating circuit switching
Alarm function	1 general potential free alarm contact; alarm light indicator on panel front

## SBS CONTROL PANEL WEIGHT & DIMENSIONS TABLE

Product	Weight (kg)	Length (mm)	Width (mm)	Depth (mm)
SBS-03-VV-20	32	600	400	210
SBS-06-VV-20	32	600	400	210
SBS-09-VV-20	32	600	400	210
SBS-12-VV-20	85	800	800	210

## RELATED PRODUCTS

The SBS-xx-VV-20 control panel is compatible with the nVent RAYCHEM ramp heating EM2-XR cables:

- EM2-XR Self-regulating heater cable (90W/m @ 0°C)
- GM-2XT (for drain heating)\*

\*The SBS-XX-VV-20 panel includes an additional circuit connection for drain heating capabilities at the edge of heated surfaces or at the lower end of ramps using heating cable (maximum drain line circuit length of 15 m).

## PRODUCT REFERENCE

To order the SBS-xx-VV control panel, please reference:

Product name	Order reference	Description
SBS-03-VV-20	1244-000215	Up to 3 circuit control panel for EM2-XR ramp heating products
SBS-06-VV-20	1244-000216	4-6 circuit control panel for EM2-XR ramp heating products
SBS-09-VV-20	1244-000217	7-9 circuit control panel for EM2-XR ramp heating products
SBS-12-VV-20	1244-000218	10-12 circuit control panel for EM2-XR ramp heating products

## INSTALLATION INFORMATION

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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