SBS-R-HWAT

PRODUCT DESCRIPTION

The nVent RAYCHEM SBS-R-HWAT control panel for hot water temperature maintenance systems provides an integrated solution for the control of RAYCHEM self-regulating heating cables for single pipe hot water temperature maintenance applications.

The control panel comprises the energy efficient HWAT-ECO control system with standard, economy, and "Tap time" set-back functions. The control panel also includes monitoring of the boiler output temperature and low temperature alarm in the event of low boiler output temperature. A BMS connection is also provided to allow controller override switching between maintain mode, setback mode, or legionella prevention mode (when using HWAT-R heating cable only).

The SBS-R-HWAT panels are available in 1 and 3 circuit switching versions. The panel also includes 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, device for single/multiple heating circuits from the heat tracing manufacturer.
- Alarm function for system monitoring.
- BMS input available.
- Boiler monitoring sensor for low temperature alarm.
- Everything in a single control panel. Simply add a power supply.

TECHNICAL DATA

Control	HWAT-ECO Smart control device, pre-installed and electrically connected
Supply voltage	230Vac 50/60Hz
Set temp.	Customer specific at first set-up (Quick and easy menu driven set-up)
Sensor	Boiler output temperature sensor (Line sensor.) PTC KTY 81-120 or PT100

RELATED PRODUCTS

The SBS-R-HWAT control panel is compatible with the RAYCHEM hot water temperature maintenance cables:

• HWAT-L

• HWAT-M

• HWAT-R

The recommended connection components are RAYCHEM RayClic fast connection devices.

PANEL TECHNICAL DATA

Control	RAYCHEM HWAT-ECO controller
Panel Colour	Light Grey
Protection Class	IP55
Installation location	Indoor
Ambient Temperatures	+5°C to +35°C.
Cable Apertures	Metal panel with metric Breakaway apertures.
Power Supply	230Vac, 50Hz or 400V/230Vac, 50Hz, 3L/N/PE (depending on panel selected)
Panel Material	Metal Enclosure.
Panel Approval	CE (Approved to IEC 61439-1)
Main switch	40A
RCD	30mA
Line circuit breakers	20A (Type C) per heating circuit
Approvals	CE marked

ENCLOSURE TYPE

		SBS-R-HWAT-1x20A	SBS-R-HWAT-3x20A
Number of Heating Circuits		1	3
Dimension	Width (mm)	300	400
	Height (mm)	400	600
	Depth (mm)	210	210
Electrical Protection	Amps	1 x 20A	3 x 20A

ORDER REFERENCE

Product Name	Order Reference	Description
SBS-R-HWAT-1x20A	1244-016639	HWAT Control panel for 1 circuit of HWAT self-regulating heating cable
SBS-R-HWAT-3x20A	1244-016640	HWAT Contro l panel for up to 3 circuits of HWAT self-regulating heating cable

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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