

## CONNECT AND PROTECT

### PRODUCT DESCRIPTION



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

The control panel comprises the energy efficient HWAT-ECO controller with standard, economy, and "Tap time" set-back functions. The controller also includes monitoring of the boiler output temperature and low temperature alarm in the event of low boiler output temperature.

The SBS-R-HWAT panels are available in 1, 3 and 6 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.
- Controller with large touch screen for easy programming and start-up.
- 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
Set temp.	Customer specific at first set-up (Quick and easy menu driven set-up)
Sensor	Boiler output temperature sensor (Line sensor.) NTC type

## RELATED PRODUCTS

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

- HWAT-L
- HWAT-M
- HWAT-R

The recommended connection components are nVent RAYCHEM RayClic fast connection devices.

## PANEL TECHNICAL DATA

Control	nVent RAYCHEM HWAT-ECO controller
Panel Colour	Light Grey
Protection Class	IP65
Installation Location	Indoor
Ambient Temperatures	+10°C to +35°C
Cable Apertures	Metal panel with metric apertures to cut out
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	13, 16, 20A (Type C) per heating circuit
Approvals	CE marked, UKCA marked

## ENCLOSURE TYPE

		SBS-R-HWAT-1x13A	SBS-R-HWAT-1x16A	SBS-R-HWAT-3x16A	SBS-R-HWAT-6x16A	SBS-R-HWAT-1x20A	SBS-R-HWAT-3x20A
Number of Heating Circuits		1	1	3	6	1	3
Dimensions	Width (mm)	300	300	400	400	300	400
	Height (mm)	400	400	600	600	400	600
	Depth (mm)	210	210	210	210	210	210
	Weight	20kg	20kg	32kg	32kg	20kg	32kg
Power Supply	Voltage	230Vac	230Vac	400Vac (3-phase)	400Vac (3-phase)	230Vac	400Vac (3-phase)
Circuit Breakers	C-type	1x13A	1x16A	3x16A	6x16A	1x20A	3x20A

## ORDER REFERENCE

nVent Product description	nVent Part number	EAN Code	Comments
SBS-R-HWAT-1x20A	1244-016639	5414506018158	1 circuit control panel for HWAT Cables (1 x 20A circuit)
SBS-R-HWAT-3x20A	1244-016640	5414506018165	3 circuit control panel for HWAT Cables (3 x 20A circuit)
SBS-R-HWAT-1X13A	1244-021423	5414506021042	1 circuit control panel for HWAT Cables (1 x 13A circuit)
SBS-R-HWAT-1X16A	1244-021424	5414506021059	1 circuit control panel for HWAT Cables (1 x 16A circuit)
SBS-R-HWAT-6X16A	1244-021426	5414506021066	6 circuit control panel for HWAT Cables (6 x 16A circuit)
SBS-R-HWAT-3X16A	1244-021425	5414506021073	3 circuit control panel for HWAT Cables (3 x 16A circuit)

## 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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