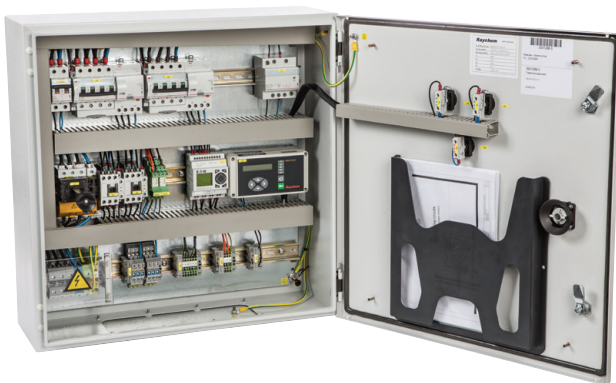# SBS-XX-HV-ECO-10

nVent

RAYCHEM

CONTROL PANEL FOR HOT WATER TEMPERATURE MAINTENANCE SYSTEMS

DESCRIPTION

The nVent RAYCHEM SBS-XX-HV-ECO-10 control panel for hot water temperature maintenance systems provides a totally 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 integrated standard, economy, and "Tap time" set-back timer 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). SBS-06-HV-ECO-10 and SBS-09-HV-ECO-10 also includes an integrated time shift logic module for phased switch-on of the heating circuits to prevent in-rush surges when the circuits are activated.

The SBS-XX-HV-ECO-10 panels switches up to 9 circuits of HWAT-Lor HWAT-R self regulating heating cable. The panel also includes electrical circuit protection devices (C-type circuit breakers and RCD protection) for safety and peace of mind. The panels need only be connected to the 400Vac (3 phase) supply.

ADVANTAGES

- Integrated electrical safety, control, and heater connection of multiple heating circuits from the heat tracing manufacturer
- Alarm function for system monitoring
- BMS input available
- Boiler monitoring sensor for low temperature alarm.

TECHNICAL DATA

Control	HWAT-ECO Smart control device, pre-installed and electrically connected
Supply voltage	400V (3 Phase)
Circuit voltage	230V / 50/60Hz Customer specific (quick and easy menu driven set-up)
Sensor	Boiler output temperature sensor (Line sensor) PTC KTY 81-120 or PT100
Panel approval	CE (Approved to IEC61439)
Main switch	32A-63A
RCD	30mA
Line circuit breakers	20A (Type C) per heating circuit
Selector Switch	Auto / Manual heating circuit mode
Alarm function	1 general potential free alarm contact; alarm light indicator on panel front

RELATED PRODUCTS

The SBS-XX-HV-ECO-10 control panel is compatible with the RAYCHEM hot water temperature maintenance cables:

HWAT-L

HWAT-M

HWAT-R

TECHNICAL DATA

Colour	Structural paint, RAL 7035, light grey
Protection class	IP65
Installation location	Indoor
Ambient temperatures	+10°C to +35°C

Cabinet type			SBS-03-HV-ECO-10	SBS-06-HV-ECO-10	SBS-09-HV-ECO-10
Number of heating circuits, max.			3	6	9
Housing version			Wall-mounted	Wall-mounted	Wall-mounted
Dimensions	Width	mm	400	600	600
	Height	mm	600	600	600
	Depth	mm	210	210	210
Weight	approx.	kg	32	45	45

ORDER REFERENCE

Product name	Order reference	Description
SBS-03-HV-ECO-10	035958-000	Up to 3 circuit control panel for HWAT system
SBS-06-HV-ECO-10	539268-000	Up to 6 circuit control panel for HWAT system
SBS-09-HV-ECO-10	294452-000	Up to 9 circuit control panel for HWAT system

INSTALLATION INSTRUCTION

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.

United Kingdom

Tel   0800 969 013
Fax 0800 968 624
salesthermalUK@nvent.com

Ireland

Tel   1800 654 241
Fax 1800 654 240
salesIE@nvent.com

South East Asia

Tel   +65 67685800
Fax +65 67322263

Australia

Tel   +61 2 97920250
Fax +61 2 97745931

India - Noida

Tel   +91 120 464 9500
Fax +91 120 464 9548
NTMinfome@nvent.com

India - Mumbai

Tel   +91 22 6775 8800/01
Fax +91 22 2556 1491
NTMinfome@nvent.com

UAE

Tel   +971 4 378 1700
Fax +971 4 378 1777
NTMinfome@nvent.com

nVent.com   Our powerful portfolio of brands:

CADDY   ERICO   HOFFMAN   RAYCHEM   SCHROFF   TRACER