



# **CONNECT AND PROTECT**

# 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. 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
- · Boiler monitoring sensor for low temperature alarm.
- Integrated control unit HWAT-ECO v5

#### **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) NTC Sensor		
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 nVent 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	600	600	800
	Height	mm	600	600	800
	Depth	mm	210	210	210
Weight	approx.	kg	45	45	55

# **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.

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