

CONTROL PANEL FOR HOT WATER TEMPERATURE MAINTENANCE SYSTEMS



DESCRIPTION

The nVent RAYCHEM SBS-01-HM-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 nVent RAYCHEM 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.

The SBS-01-HM-ECO-10 panels switches a single maximum circuit of nVent RAYCHEM HWAT-L, HWAT-M or 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 230Vac supply.

ADVANTAGES

- Integrated electrical safety, control, and heater connection within a single unit from the heat tracing manufacturer
- Alarm function for system monitoring
- Boiler monitoring sensor for for low and high temperature alarm. Pipe sensor for monitoring pipe temperature

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.) NTC 10 KOhm
Panel approval	CE (Approved to IEC61439)
Main switch	32A
RCD	30mA
Line Circuit breakers	20A (Type C) per heater circuit
Selector Switch	Auto / Manual heater circuit mode
Alarm function	1 general potential free alarm contact; alarm light indicator on panel front

RELATED PRODUCTS

The SBS-01-HM-ECO-10 control panel is compatible with the RAYCHEM hot water heating cables:

HWAT-L

HWAT-M

HWAT-R

TECHNICAL DATA

The standard switch cabinet comprises a steel plate housing and is fully assembled and inspected with turnkey-status wiring.

Paintwork	Structural paint, RAL 7035, light grey
Enclosure protection class	IP65
Installation location	Indoor
Ambient temperatures	+10°C to +35°C
Mains supply	230Vac, 50Hz, L/N/PE

Cabinet type			SBS-01-HM-ECO-10
Number of heating circuits			1
Housing version			Wall-mounted
Dimensions	Width	mm	400
	Height	mm	600
	Depth	mm	210
Weight (ready for dispatch)	approx.	kg	32
Switch cabinet equipment			
Master Isolator switch, 32A		Unit	1
"Operating" signal lamp		Unit	1
"Fault" signal lamp		Unit	1
HWAT-ECO temperature controller		Unit	1

ORDER REFERENCE

Product name	Order reference	Description
SBS-01-HM-ECO-10	390056-000	Single 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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