

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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