

# **Raychem** SPECIFICATION GUIDELINE



## SBS-01-HM-ECO-10

### SINGLE PIPE HOT WATER SYSTEM MULTI CIRCUIT

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#### **CONTROL & MONITORING PANEL**

- All hot water temperature maintenance trace-heating circuits shall be controlled and monitored via an integrated electrically protected, single circuit control panel, SBS-01-HM-ECO-10, by Pentair Thermal Building Solution.
- The HWAT panel shall provide control and monitoring functionality for a single circuit, single pipe hot water temperature maintenance system including the provision of all electrical and circuit protection devices for safety purposes. The electrical panel shall be approved for use with the HWAT system and be certified for use by Pentair Thermal Building Solution.

#### **The control and monitoring panel shall have, as a minimum:**

- EN60204-1 and EN60439-1 compliance, CE approved for use with heat tracing systems.
- RAL7035 (Light Grey) Coated Metal Housing – IP54 rated.
- A volt free alarm contact to indicate
  - RCD or circuit breaker failure mode
  - Loss of power to the unit
  - Controller or sensor error mode
- An HWAT-ECO control unit as the central control device for standard heating and economy set-back mode programmable functions.
- Type C circuit protection and residual current device (30 mA rated) per heating circuit.
- Mounted terminal blocks for easy connection of the heating circuits within the panel.
- An integrated boiler output temperature sensor for water output temperature monitoring capability.
- All electrical connections between the electrical supply, control panel, and the heating circuits shall be carried out by an approved electrical contractor.

#### **In Engineering Notes Column**

- All HWAT circuits shall be controlled and monitored via the single circuit control panel, SBS-01-HM-ECO-10, by Pentair Thermal Building Solution, with integrated circuit protection, MCB's (BS EN 60898 type C/D) and RCD (30 mA sensitivity, tripping within 100 ms).
- The control panel shall EN60204-1/EN60439-1 compliant and CE approved for use with heat tracing systems.
- The panel shall include an HWAT-ECO control unit as the central control device.



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