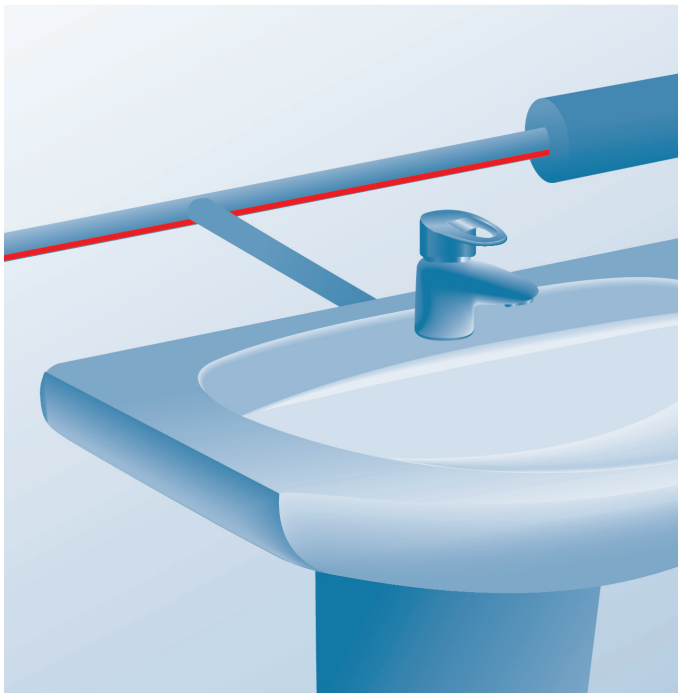


## SPECIFICATION GUIDELINE SINGLE PIPE HOT WATER SYSTEM MULTI CIRCUIT



### **CONTROL & MONITORING PANEL**

- All hot water temperature maintenance trace-heating circuits shall be controlled and monitored via an integrated electrically protected, multi circuit control panel, nVent RAYCHEM SBS-xx-HV-ECO-10, by nVent.
- The HWAT panel shall provide control and monitoring functionality for a multiple 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 nVent. The control panel shall be available, as standard, in the following variants:
  - SBS-03-HV-ECO-10 (Control & monitoring for up to 3 circuits)
  - SBS-06-HV-ECO-10 (Control & monitoring for up to 6 circuits)
  - SBS-09-HV-ECO-10 (Control & monitoring for up to 9 circuits)
- The panel shall comprise an integrated power load management algorithm to avoid peak power loading.

### **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:
  - SRCD or circuit breaker failure mode
  - Loss of power to the unit
  - Controller or sensor error mode
- A phased switch on system built-in, to allow peak load management. The phased switching should be managed by an integrated time shift duty cycle control method.
- 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

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- All HWAT circuits shall be controlled and monitored via the single circuit control panel, SBS-01-HM-ECO-10, by nVent, with integrated circuit protection, MCB's (BS EN 60898 type C/D) and RCD (30mA 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.

### 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



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