

SPC Thermatile Electric Heated Radiant Panels



Electric radiant panel heaters are an alternative to low-pressure hot water heating panels. They can be used whenever hot water is unavailable and they will radiate heat into a room in an identical manner to water versions.

Installation is simple; the panels require a single-phase 230V supply. Panels are available in nominal lengths of 600mm and 1200mm and a nominal width of 600mm. Heat output rates are selected to ensure surface temperatures are not excessive; the 600x600mm panel has a heat output rate of 250W and the 1200x600mm panel has an output rate of 500W (different outputs available to special order).

Mounting

Panels are available for free hanging with extruded aluminium frames covering the edges and used for hanging. They can also be arranged to be suitable for dropping into a suspended ceiling in which case they will not feature the edging frames but will be complete with hanging brackets on the upper surface. Wire hanging kits are available for purchase along with the panels.

Panels are manufactured from the same rigid aluminium sandwich panel as used on our hot water Thermatile TEN-TWELVE and the downward-facing surface is finished in smooth white. The upper surface has a silicone rubber heating pad glued to it and is insulated to ensure that all the emitted heat is released downwards into the space.

Performance

Panel size (mm)	Heat output rating (W)	Current rating (A)
600x600	250	1.1
1200x600	500	2.2

Controls

Individual electric radiant panels can be controlled simply on/off via a switch or thermostat, alternatively, multiple panels in a single zone can be controlled by one thermostat. Control kits are available to control up to 12-off parallel panels within a zone and include a black bulb temperature sensor which reacts to the resultant temperature in the space (combination of air and surface temperatures) rather than just the space air temperature. The former is a better gauge of comfort for a room heated by radiant means.

Black Bulb Sensor Installation

- Select a location on the wall of the controlled space which will give a representative sample of prevailing room conditions
- Avoid installing the sensor in direct sunlight, on an outside wall or near heat sources
- An ideal mounting height is 1.5m from the floor
- In a sports hall, the black bulb sensor needs protection from potential ball damage

Thermostat Installation

- The thermostat itself can be mounted remotely or inaccessibly
- Only the black bulb sensor, which is wired to the thermostat, needs to be mounted in the space



Digital thermostat

- Power supply AC 230 V
- LCD display mode
- Operating temperature range 0°C - 50°C
- Setting temperature range 5°C - 37°C
- Order code: 40-0013



SPC black bulb temperature sensor

- Measures effective temperature
- Flame retardant ABS housing
- Compact casing
- IP30 Rated
- Ambient range -10°C – 60°C
- Order code: 40-0002

