SPC Controllable Electric Heater Batteries

Electric heater batteries provide a simple means of heating airstreams in ducted systems or within the treatment section of air handling units.

Electric heater elements operate at high surface temperatures and control of temperature and safety concerns are paramount if they are to be successfully implemented. Traditionally, control circuits are designed and procured separately to the heating elements but SPC's controllable heater batteries provide a turnkey solution that integrates power and control in a single package.

While traditional electric control may have been limited to on/off or stage control the reducing cost of thyristor controls means that electric heater batteries con be continuously controlled and their output modulated in line with the load.

All SPC electric heaters with controls use solid state switching via thyristors which can operate in response to localised duct-mounted temperature or room sensors or via 0-10V analogue signals from a BMS.

Standard Features

- Thyristor/solid state relay switching to continuously control output
- High temperature manual reset overheat safety cut-outs
- Flow proving switches (differential pressure type)
- Fan control including run-on feature
- Volt free enable/disable
- 0-10V BMS interface
- Supply duct temperature sensor
- Up to 9kW single phase, 135kW three phase
- Circular heaters up to 630mm diameter, rectangular heater sizes to suit including 20mm mez flanges
- Heating rods from 8mm sheathed elements in 321 stainless steel
- Heater casings are from galvanised steel sheet

A range of other features are available to order including stab-in heaters, plain casing flanges, remote fault signalling, room sensor/controller and low flow sensors.

SPC House, Evington Valley Road, Leicester LE5 5LU
T: 0116 249 0044 **E:** spc@spc-hvac.co.uk
spc-hvac.co.uk