

VE Zone 0 Heater

Technical Data Sheet



Hazardous Area Heater


The VE Technology® hazardous area heater is the first heater to be certified for IECEx/ATEX Zone 0 applications. The simplest, safest and most efficient method to maintain a stable temperature in a hazardous environment; eliminating the potential for cold spots within a sample system.

The heater is fully self-regulating, incorporating a PTC heating element with an integrated thermal fuse for safety. The set point of the heating element is subject to the application.

Additional control via sensors and control loops are available if required.

Benefits

- 1) **Zone 0** – Suitable for use within the most hazardous applications.
- 2) **Compact and easily integrated** – Powerful yet dimensionally small, and complete with multiple fixing points to make installation simple and flexible. Alternative sizes and shapes are available if required.
- 3) **Thermal stability** – Complete with a self-limiting heater, the unit can be used to maintain desired thermal stability for enclosure spaces, panels and assemblies.

Dimensions	Minimum: 115 x 63.5 x 63.5 mm (4.5 x 2.5 x 2.5 inch) – size and shape according to customer requirements – Saddle heaters (for sample cylinders) and other accessories such as fins for space heating also available. Can be mounted directly to VE Probe double block and bleed valve. Please see Technical data sheet TDS 004 Annex 1.
Weight	Approx. 5 kg (11 lb) subject to final size and shape
Temperature Range	Ambient: -50°C to + 160°C (-58°F to +320°F) as standard Self-controlling from 50°C to 150°C as required – option for additional control from remote sensors
Supply Voltage	110/240Vac – Unit is suitable for either with no modification (240V nominal, unit suitable for 230 – 265V)
Power Consumption	Typical: 20 – 80W subject to ambient conditions and temperature loss from surroundings Maximum: 100W
Certification	 II 1G Ex ma IIC T3 Ga (T _{amb} = - 50°C to +160°C) Baseefa 15 ATEX 0114X IECEX BAS 15.0082X
Protection Rating	IP67
Connections	Flying lead (1.5m) as standard – extended length available along with flexible or ridged conduit Heating – 3 core (18AWG) power cable – Brown/Blue/Earth (O.D. 8.2mm +/- 0.4mm) (others size/color by request)
Materials	Housing – Naval Brass as standard, Stainless Steel 316 and other options available Cable gland – Corrosion resistant Stainless Steel as standard, Brass or Nickel plated brass as options.
Installation	Special conditions for installation: <ul style="list-style-type: none"> o The electrical supply must include a fuse capable of interrupting a potential short circuit current of 1500A o This system includes an integral cable which must be terminated in a suitably certified enclosure or safe area o The integral cable must be secured and mechanically protected within the Zone 0 area o The supply must include 30mA RCD protection

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