ISE Range of Ex e Certified Electric Duct Air Heaters

The ISE type electric heaters comprise a range of certified Ex e air duct heaters, custom built to meet client specifications, and suitable for use in ATEX / IECEx Zone 1 hazardous areas.

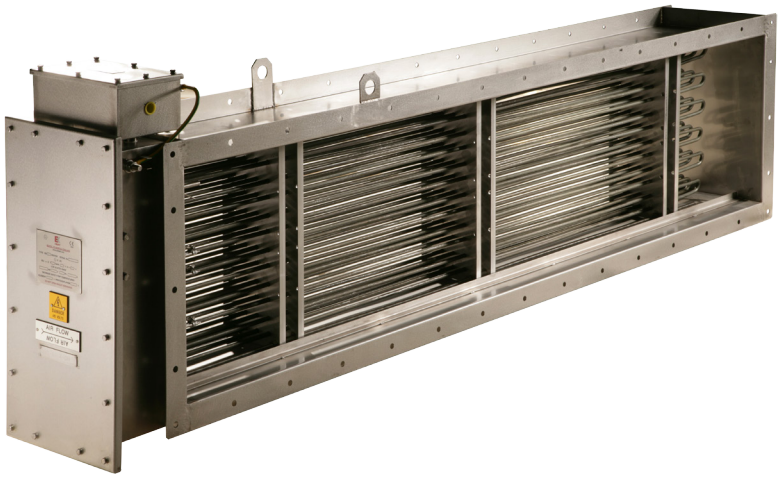
FEATURES

- Certified to ATEX or IECEx standards
- A range of Ex e Gas Group IIC, increased safety certified duct air heaters
- Temperature classifications T2 to T6
- Elements are certified Ex e for use in Zone 1 hazardous areas
- Elements are individually replaceable on site without the need for special tools
- Terminal box is certified weatherproof to IP66 and IP67
- Anti-condensation heater fitted if required
- Various types of over-temperature cut-outs available, e.g. thermostats, RTD's or thermocouples

TYPICAL APPLICATIONS

- Air handling units
- HVAC duct heating
- Furnace heating
- Space heating
- Drying ovens

Rev 1.1



Certification	ATEX / IECEx Ⓔx II 2 G Ex e IIC T1 to T6 Gb IP67 CU TR (formerly GOST), CCOE, CNEx, Inmetro
Terminal Box	Lightweight construction, manufactured from either carbon steel (corrosion protected) or 316L stainless steel throughout
Elements	Manufactured from 80/20 NiCr resistance wire with high purity compacted magnesium oxide powder sheathed with corrosion/erosion resistant tube, eg: Incoloy 800/825 — Inconel 600/625 — Titanium 316/316L stainless steel — 321 stainless steel
Special Features	Where a hazardous gas is present within the duct, the elements are supplied certified Ex e for use in an ATEX / IECEx Zone 1 Area.
Thermal Protection	Generally over temperature protective devices are installed as follows: Where elements are NOT in a Hazardous Area: • 1 thermal cut-out per heating stage, sensing element surface temperature • 1 thermal cut-out, sensing air temperature Where elements ARE in a Hazardous Area: • 3 thermal cut-outs (1 per phase), per heating stage sensing element surface temperature • 1 thermal cut-out sensing air temperature Note: The air temperature sensor is not required if the terminal box is thermally spaced from the duct
Supports	Elements are supported in a baffle assembly to prevent flow-induced vibration
Element Fittings	Elements are sealed into the mounting flange by either brass or stainless steel bushings to facilitate individual replacement of elements
Voltage	Suitable for voltages up to 690V
Duct Construction	Manufactured from either stainless steel or pre-galvanised sheet steel to suit the specific working environment; the element-mounted flange is designed to enable removal of the heater bundle without disturbing the remaining ductwork

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