

Trace Heating

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Electrical trace heating protects your equipment, your people, and your processes. It can be the difference between the smooth running of a business and detrimental operational issues.

Powertherm provides electrical trace heating services to a range of industries in both hazardous and non-hazardous environments, including food processing, pharmaceutical manufacture, power generation and within safety critical petrochemical and refining sectors.

With over 30 years experience our CompEx certified engineers apply the knowledge and processes we have developed in the more hazardous environments to all projects to ensure the highest level of safety and competence at all times.

We offer a full range of trace heating tapes from constant wattage to self-regulating and mineral insulated elements. Our range of control solutions covers basic control thermostats through to remote control panels with digital temperature readouts. Our experts also understand insulation is an essential element of the trace heating system and having this service in-house passes on the benefits of having to deal with a single contractor.

Specialist Support

In support of our trace heating service, we provide:

- › CAD system designs – as-built CAD drawings supplied after every project
- › Control panel design and installation
- › Electrical testing and commissioning
- › Insulation installation
- › Material specification
- › Site inspections and surveys
- › Trace heated flexible insulation covers



Temperature Maintenance

The importance of temperature control cannot be overstated, particularly when working with potentially explosive materials, byproducts of heated processes, or temperature-sensitive substances. We have worked with clients from a diverse range of sectors who all face challenges like this daily, and have provided innovative solutions for the following:

- › Ash handling: for hoppers, cyclones and associated equipment
- › Fuel oil and gas lines
- › Instrumentation: pumps, valves & nozzles etc
- › Process equipment: including boilers & balance of plant
- › Process pipework: including transfer lines
- › Storage equipment: including vessels, tanks, and silos

Frost Protection

Trace heating for frost protection can be a difference-maker when it comes to protecting and extending the life cycle of assets, avoiding damage – or even costly failure. Powertherm's state-of-the-art frost protection systems reduce the risk of injury to both personnel and the general public. Our industry-leading trace heating solutions have been applied to the following:

- › External decontamination showers
- › Footpaths, ramps, guttering, roofs, & access ways
- › Instrumentation: including pumps and valves
- › Process equipment
- › Process piping: for condensation / frost prevention
- › Storage equipment: including vessels, tanks, and silos
- › Water supplies: including chilled water supply (CWS) & fire water circuits

Winterisation

Our winterisation service consists of an expert inspection of trace heating frost protection systems. It is designed to evaluate the integrity of pipework and the safety of your business during freezing temperatures and avoid any issues and unwanted downtime due to equipment failures.

Visual Inspection:

- › Check cable and cable gland condition
- › Remove junction box lid and check for moisture ingress
- › Check terminals for tightness and correct connection

Electrical Testing:

- › Test continuity and record results (checking for open circuit or low resistance) and compare with previous year's results.
- › Test insulation resistance (cores to earth, checking for low IR readings) and compare with last year's results.
- › Checking against previous results can identify any malfunctions in heating elements before they occur.

Following the completion of our winterisation inspections, we work with our clients to provide results and remedial works that are guaranteed to greatly reduce the risk of disruption or asset failure.

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