www.lmkthermosafe.co.uk
www.inteliheat.com

THERMOSAFE LMK LTD

Industrial Heating Technology
for drums IBCs totes & containers

Tel: +44 (0)1440 707141
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Haverhill, Suffolk CB9 7AA England

Temperature Control

For Drum & Container Heaters

Accurate and repeatable temperature control can be very important for many industrial heating processes, such as gently warming pressurised gas cylinders, achieving a reliable finish when curing composites, and producing consistent material properties in waxes and resins.

All our popular industrial heaters have adjustable temperature control as standard, whilst our specialist ATEX/IECEx designs are self-limiting as a first principle. Our legendary THERMOSAFE® induction drum heater and our ATEX/IECEx rated Inteliheat Flexiplus heating jackets are examples where additional temperature control is often not needed. When required for process or design reasons we can offer various solutions for both safe and hazardous area use. *Please also refer to our product note – "Temperature Control for Ex Hazardous Areas".*

General Industrial flexible heating jackets

Most of our popular flexible heating jackets incorporate an analogue adjustable thermostat with a range dependent on the jacket type. For the vast majority of applications this is a highly reliable control mechanism, simple to use (just turn the knob), robust, foolproof, and excellent value for money. For certain applications it may be appropriate to add either a digital control unit (see details below), or an internal, fixed temperature thermostat which cannot be accidentally adjusted.



Thermosafe induction drum heater and Faratherm induction base heater

Our Thermosafe and Faratherm heaters both use induction coils rather than traditional radiant heating elements. The maximum surface temperatures are self-limiting (i.e. at a certain point the heat input balances the energy losses), and depend only on the a.c. voltage and ambient temperature. The Thermosafe itself always remains cooler than the drum being heated. When switched off there is no retained element heat and no temperature over-shoot. For many applications additional control is not required. If essential to the process or batch, we can supply a number of options whether the use be for safe or hazardous areas.



Digiheat base heater – "safe area" environments.

Our Digiheat base heater for ordinary industrial locations comes as standard with a clear large display digital controller, similar to the optional device used with our general heating jackets. This allows for precise control of the top plate surface temperature. The design is optimised for reliable long-term use with or without our Thermosafe Induction Drum Heaters or flexible jackets.

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Flexible Heating Jacket Controller Options



Digital controllers

Some applications require precise monitoring of temperature, for which a digital controller is ideal. Good examples might be in the production and repair of composite surfaces, such as wind turbine blades or yacht hulls, or batch processes where an exothermic reaction might occur.

Our range of digital controllers for standard and custom flexible heating jackets offer simple user interfaces with clear touch-screen displays, as well as advanced features such as secondary point temperature regulation, 'ramp and soak' programming, and adjustable power control. Multi-point logging can also be built into these systems.



Fixed temperature thermostats

We offer a fixed thermostat option (30/50/70/90/120°C) on all of our ordinary area custom designed or standard heating jackets. A fixed thermostat may be appropriate for processes where a regulated temperature will never change, or it may help protect against accidental temperature adjustments which might damage the product being heated. In addition, our weatherproof CE marked range of flexible heating jackets use a fixed thermostat as standard for improved water ingress protection to IP56 or better.

Thermosafe, Faratherm & Inteliheat Controller Options

BF400 Power Controller – Low cost solution for most applications



Uniquely designed for use with the Thermosafe and Faratherm heaters. Open loop power control that is simple to install and use, ideal for most applications where a drum needs to be maintained in a broad operational temperature range and time is not critical.

Burst firing controller enabling adjustment of heater output (0-100%). Selecting 50% will deliver power for 50% of the time (e.g. on for 30 seconds & off for 30 seconds), therefore reducing the maximum drum temperature. Integrated 25A MCB for circuit protection. (MUST be fitted away from any "Ex" rated hazardous area.)

Hazardous area digital control for Thermosafe and Faratherm

LMK Thermosafe offer two different digital controllers for use in an ATEX/IECEx/C1D2 hazardous area. These can of course also be used in safe/ordinary areas. For more information on these controllers, please request our product note "Temperature Control for Ex Hazardous Areas".



If you're unsure whether additional control is required, contact our technical team with details of your application. Alternatively, complete the technical feedback form on our website and we will respond within one working day.

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