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

THERMOSAFE LTD

Industrial Heating Technology
for drums IBCs totes & containers

Tel: +44 (0)1440 707141
sales@drumheating.com

9/10 Moonhall Business Park
Haverhill, Suffolk CB9 7AA England

IBC / Tote Flexible Heating Jackets

for safe and hazardous areas

- Wide range of IBC heating jackets, insulation-only and PVC covers for plastic liner metal framed 1000L "Schutz" style IBCs from stock
- Safe area and hazardous area ATEX / IECEx certified products
- Gentle warming and anti-freeze through to heavy-duty aggressive and fast heating
- Indoor and outdoor / wet environment options
- Multiple control and sensor setups
- Custom non-standard / large process tank solutions also available

Registered in England No. 3959310
VAT No. GB 759 6388 64

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Safe Area Applications

Tried and tested the World over, our Flexible Heating Jackets simply wrap around the tank, clip together and the thermostat can be set to the desired temperature.

- High-grade stich-bonded fiberglass thermal insulation to reduce heat-loss and increase efficiency whilst providing protection for the operator
- Fitted with adjustable retaining straps and quick release buckle clips
- Tough nylon outer layer, high temperature silicone-impregnated glass cloth inner
- Integrated fully adjustable analogue and digital temperature controllers, with options for additional temperature monitoring probes
- 230/240volt and 110/120volt versions available from stock
- Deliver an even heat over a large surface area, minimising the possibility of spoiling the product
- Fit and forget – no regular maintenance required, safe to use 24 hours a day
- Rated IP54 as standard, double insulated, and supplied with armoured cable

Single-circuit 1400W '*IBC1*' model

- For gentle warming, reducing viscosity, and anti-freeze
- Supplied as standard with a -5 to +40℃ integrated thermostat
- Cost effective solution when faster heating times are not required
- Insulated IBC lids also available to reduce heat-loss

Dual-circuit 2800W '*IBC2*' model

- Ideal for customers requiring liquids to be heated rapidly and as evenly as possible
- Two high power heating circuits enable the top and bottom of each jacket to be separately controlled
- Constructed in *HiHeat* style with thick insulation and 0-90℃ thermostats

Triple-circuit 3990W '*IBC3*' model

- For maximum power and top temperatures
- Three high power heating circuits enable the top, middle and bottom of each jacket to be separately controlled
- Supplied together with an IBC insulated lid (including top access flap) as standard

Selection of the correct equipment is dependent on many factors including material type, environmental conditions, required operating temperature and desired heating rates.

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Potentially Explosive Hazardous Area Applications

Reputation isn't gained overnight. For more than 35 years LMK Thermosafe has been providing hazardous area solutions for the harshest of environments. With a proven track-record for reliability and safety, our Inteliheat Flexiplus range of hazardous area heating jackets are independently certified as complete systems. *Don't compromise safety with "piece-part approvals"*. Suitable for both gas and dust ATEX / IECEx zoned areas (1, 2, 21 and 22), with different temperature classification solutions available.

As with our safe area range of IBC heating jackets, we have a number of standard ex-stock options for heating plastic liner metal framed IBCs, and we can also provide customised solutions for other IBCs and large tanks.

Selecting the right model will depend on a number of factors including (but not limited to) the following:

- Required temperature of IBC contents
- IBC size and type
- Desired heating rate
- ATEX / IECEx zone temperature classification
- Operating ambient temperature range
- Environment – indoors or outdoors, and necessary ingress protection rating
- Heating process type, and onward processing steps
- Available power supply

The Intliheat Flexiplus range offers two types of solution – one where the jacket self-limits at a fixed temperature above ambient, and the other where the heater is supplied with a jacket-mounted or wall/stand-mounted temperature regulator or digital temperature controller.

We also manufacture hazardous area heating jackets with North American UL/CSA standard certifications for both C1D2 and C1Z1 zoned areas, and of course have solutions for smaller vessels, drums and cylinders.

Contact us now to find out more about our ProxATEX patented hazardous area controller.

Whatever your requirement, please get in touch and we'll be happy to help design a suitable solution to meet your hazardous area process heating needs.

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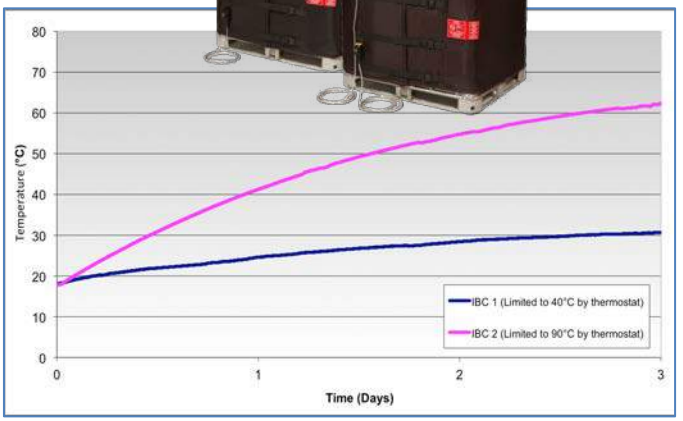
Heating Performance and Comparisons

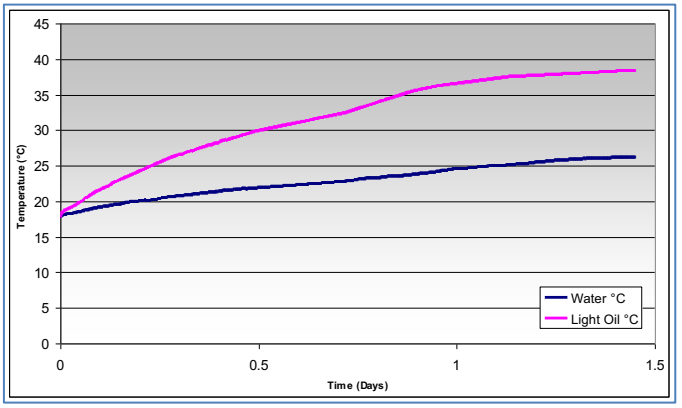
This graph below shows a comparison of the IBC1 and IBC2 safe area heating jackets when heating 1000 litres of water. An IBC insulated lid was fitted during testing. Due to its high heat capacity, almost all industrial liquids heat significantly faster than water.

[Temperatures measured in centre of IBC, 550mm from bottom. Max. thermostat setting for IBC1 is 40 °C, and for IBC2 it is 90 °C.]



Material Comparison

Heating rates are dependent on the properties of the material being heated. This graph (right) shows the performance of an IBC1, limited to 40°C by the thermostat, when heating a light oil and water. The IBC2 and IBC3 jackets offer significantly faster heating rates, to higher temperatures.



Insulation-only, waterproof PVC and anti-UV jackets

These are all available ex-stock for standard plastic liner metal framed IBCs, and of course we can also supply custom designs for non-standard or less common IBCs, large containers and process tanks.

Our insulation-only jackets are designed for slowing the cooling / warming rates of already processed products, and are a cost-effective alternative to heating or cooling jackets where the onward processing / transit time of an IBC is relatively short.

Anti-UV and waterproof PVC covers provide protection from the elements, and are particularly suitable for outdoor environments, or in the case of PVC covers, indoor wet / wash-down environments, as often seen in the food and pharmaceutical industries.

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