

## IBC / Tote Flexible Heating Jackets

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 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.
- Integrated fully adjustable thermostats.
- 240volt or 110volt versions available from stock.
- Made for plastic with wire frame type IBC tank, but fit many other types. Custom designs available quickly.
- Deliver an even heat over a large surface area, minimising the possibilities of damaging the product.
- Fit and forget – no regular maintenance required.
- Safe to use 24 hours a day.



Standard IBC2 with optional IBC Insulated Lid

Standard IBC1



**ATEX/IECEx jackets**  
also available

#### Single-circuit 'IBC1' model

- For gentle warming.
- Avoid winter freezing.
- Reduce viscosity.
- Cost effective alternative when the faster heating times are not required.
- Insulated IBC lids are also available to reduce heat-loss to a minimum.
- Heavy-duty waterproof cover can be used for protection when used outdoors.



#### Dual-circuit '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 with integrated thermostats.
- Constructed in *HiHeat* style.
- A super high power 'IBC3' can also be supplied for appropriate materials.



#### Triple-circuit 'IBC3' model

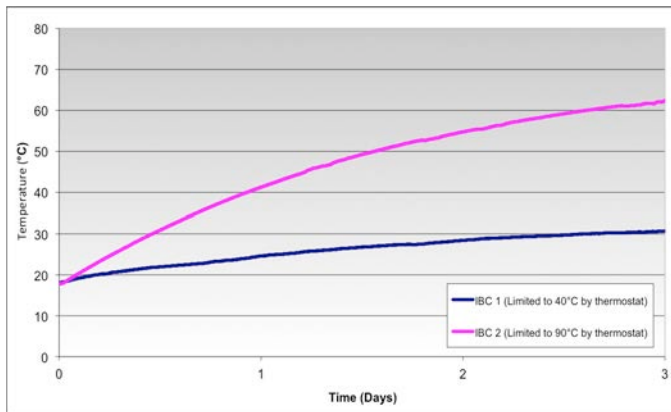
- For customers looking for maximum power.
- Three high power heating circuits enable the top, middle and bottom of each jacket to be separately controlled with integrated thermostats.
- Constructed in *HiHeat* style.
- Supplied together with an IBC Insulated Lid as standard within the price of the jacket.



Selection of the correct equipment is dependant on many factors including material type, required operating temperature and desired heating rates. LMK Thermosafe are pleased to assist customers in the selection of the correct equipment for their particular application.

### Heater Performance

The graph below shows a comparison of LMK Heating jackets when heating 1000L of water. An IBC Insulated Lid was fitted to the IBCs during testing. Almost all industrial liquids heat significantly quicker than water (see material comparison below).



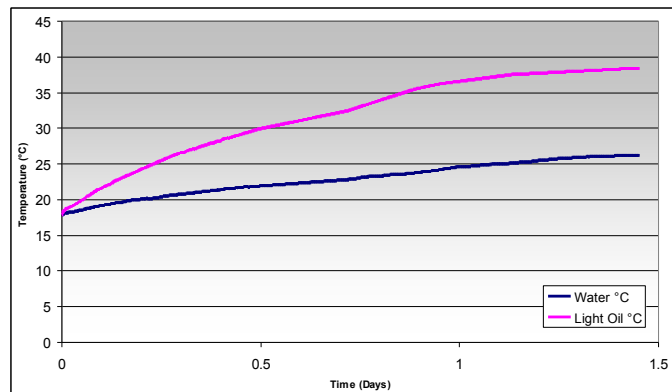
Temperatures measured in centre of IBC 550mm from bottom of water  
Maximum thermostat setting for IBC1 is 40 °C, and for IBC2 it is 90 °C



IBC1 and IBC2 Heating Jackets with optional Insulated Lids

### Material Comparison

Heating rates for each jacket are dependant on the properties of the material being heated. This graph shows the performance of an IBC1 (limited to 40°C by thermostat) when heating a light oil and water.



Temperatures measured in centre of IBC 550mm from bottom of water / light oil.  
Jacket limited to 40°C by thermostat

### Hazardous Area / ATEX and IECEx

For applications within Ex Hazardous Areas we have our INTELIHEAT™ jacket. Safe operating conditions are maintained even in the presence of potentially explosive gases. Heating rates are similar or better than our "safe area" IBC2 Flexible Heating Jacket, and temperatures up to typically 55°C can be achieved. No transformers are required as it operates using standard ac supply voltages.

The INTELIHEAT is designed for use with plastic liner, metal frame IBCs. However it may also be used to heat 4x205L drums. An Insulated lid may be used to reduce heat loss and improve heating times. Certified jackets to fit other sizes, shapes and styles of container are also available.



### **Insulation Jacket**

In addition to our Heating Jackets for IBCs, we also have un-powered Insulated Jackets for IBCs. Designed for applications where the IBC needs to be kept warm or cool. The jackets are designed to fit 'Schutz' style IBC tanks however other sizes can be made.

These units are manufactured from a polyurethane coated nylon with a highly efficient layer of thermal insulation contained within. Velcro is used to secure the side jacket.

The Insulated Lid features a central access flap for the top opening.



### **Waterproof Cover**

Furthermore, we have our IBC PVC Heavy-duty cover. This provides waterproof protection for the standard Flexible Heating Jackets where a customer's tank is positioned outside, open to direct rain, or in a potentially wet environment.

#### **PRODUCT SPECIFICATION: Standard IBC Flexible Heating Jackets**

Supply/Power:	110v or 240v	IBC1: 1400watts IBC2: 2 x 1400watts (total 2800watts) IBC3: 3 x 1330watts (total 3990watts)
Electrical insulation:	Double insulated.	
Power cable:	5 metres, 2 x 1mm <sup>2</sup> , PVC insulated, sheathed, galvanized steel wire braided, per circuit.	
Control:	Integrated adjustable thermostats; IBC2 & IBC3 standard: 0-90°C, IBC1 standard: -5-40°C	
Jacket material:	Outer face, single sided hydrolysis resistant, polyurethane coated polyamide substrate with fluorocarbon finish. Base fabric nylon 66 standard. Inner face, custom polyester coated glass cloth.	
Insulation:	Stitch-bonded, needled, non-combustible glassfibre mat.	
Element:	Silicone rubber insulated spirally wrapped resistance wire.	
Ingress Protection:	At least IP4x.	