

The Thorne & Derrick range of IBC Accessories – Heated IBC Jackets

ULTRA RANGE

Heated Jackets - Our heated jackets run at low voltage for ultimate safety. Using the most advanced of technologies we are able to deliver better heat transfer with our jackets at less than half the power of our nearest competitor. Using our patented carbon polymer material we produce high thermal transfer and uniform heating characteristics that mean we deliver unrivalled performance.

Technology - Unique patented carbon polymer technology. Unlike other forms of heating the surface area is larger and there are no hot spots.

Longevity - Constructed using extra thick, high thermally efficient materials. Lasting twice and three times as long as rival manufacturers.

Efficiency - Insulated lids as standard eliminating heat loss and maintaining high efficiency. Heating Elements offer 70% more surface area coverage. Our lower Watt version is equal in power to higher rated competitor versions.

Temperature - Controllable Temperature up to 90°C.

PID Variable Controller Displayed on Transformer, ambient to 100°C.

Design - Encapsulated in industrial grade high tenacity polyester cover with reinforced chemical and water resistant PVC coating. IP55 rated controller.

Health & Safety - Operating at 48V complying with the 17th edition SELV regulations, providing a far superior safety advantage than a high voltage or mains fed equivalent. Factory fitted isolator, jacket will isolate when removed from IBC or before being installed.



- Quality Assured
- Patented Technology
- Cost Effective
- Low Voltage
- Next Day Delivery

www.thorneandderrick.co.uk

ULTRA Range

Intermediate Bulk Container

(IBC) Jacket Heaters are a revolutionary system for heating the contents of IBCs so they flow more easily. Using a patented, low voltage carbon polymer technology (CPT) to provide the heating. The construction in two parts: a heated jacket that surrounds the walls of the IBC; and a removable, insulated lid. Unlike other forms of heating, there are no hot spots.

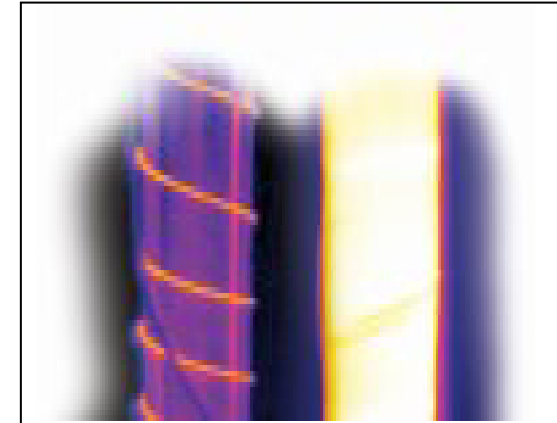
The Challenge

Many materials become viscous at room temperature, notably sugars, surfactants and a variety of chemicals. These materials present users with a number of challenges:

- Without heating, the product cannot be discharged quickly enough from the IBC into the manufacturing process, even at room temperature.
- As the IBC empties, the static head falls, further reducing the flow rate.
- To keep production flowing, it is often necessary to replace the IBC before it is completely empty, meaning the product is either wasted or returned to the supplier.

Specification

IBC Type	1,000 Litres (Nominal), Welded Steel Mesh Cage or Similar
IBC Dimensions	1,200mm x 1,000mm x 1,190mm high or custom designed to fit any dimension of IBC. Shipping Weight 25kg
Output	1.3kW (rated)
Mains Voltage	110 Vac or 230 Vac 50Hz
Transformer Type	2kVa; IP55 Enclosure. Shipping Weight 19.5kg
Transformer Output	42A ± 2A
Heated Sections	Four Sides with 20mm of Synthetic Rubber Insulation
Unheated Sections	Separate Insulated PVC Lid
Temperature Control	PID Variable Controller
Temp/Current Protection	Internal Thermal Fuse
Temperature Range	Ambient to 100°C (ambient range -10°C to 55°C)
Outer Material	Reinforced Chemical and Water Resistant PVC
Securing Methods	Hook-and-loop fasteners with monster clips on webbing straps



Thermograph of Heated Element compared to Trace Heating Alternative.

The Benefits

- Heating the IBC significantly reduces product viscosity; thereby improving flow and reducing decant time.
- The Yield is significantly improved, with virtually no product being left behind inside the IBC, thereby reducing costs.
- Better non-flammable insulation ensures heat is directed into the product.
- Flat Heating Pads – Even Temp distribution

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