

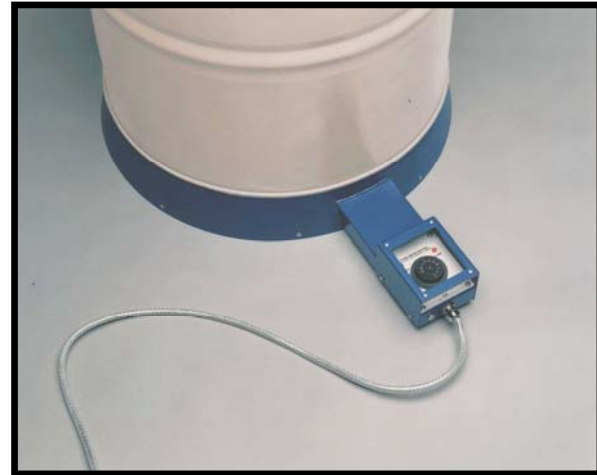
PROCESS HEATING SERVICES LTD

Type HBD Base Drum Heater - 200 litre

Applications

The HBD heater is specifically designed for melting or reducing the viscosity of soap's, fats, waxes, varnishes and oil based type of products. The diameter of the base enables use on all sizes of drums up to 45 gallons. (200 lt). Heat is provided by a 900W silicone rubber insulated heater mat, providing an even distribution of heat to the base.

If a rapid heat up is required and the contents will accept heat rapidly, or solid mediums are involved a HISD side drum heater can be used in conjunction with the HBD; alternatively a thermally insulated jacket can be used.



Construction

The HBD is made from 2mm thick mild steel for extra rigidity on uneven surfaces with tapered edges for safe ease of drum location and is protected by a resilient high temperature coating. Temperature adjustment is afforded by a rear aperture in the control unit, with neon's indicating power on and load switching, all viewed through a window in the control unit top.

Technical Data

The HBD base drum heater is controlled by a capillary thermostat, with a temperature range of 20°C to 150°C, with neon indicators for power and load on.

Power Rating: -	900 watts 230 volts AC 4 amps or 110 volts AC 8.5 amps
Heater Element: -	Wire Element, Glass impregnated silicone heater mat
Insulation: -	50mm High-density rock wool
Supply Lead: -	2 Metres flexible armoured SY type 3-core cable
Weight: -	Approx. 15 kg
Dimensions: -	
Platen:-	Height 70mm, Diameter top 550mm, Base 600mm
Control Unit: -	Height 105mm, Protrusion 280mm
Overall Unit: -	880mm long, 600mm wide, 105,mm high

KEY:-

- 1) Drum Heater base
- 2) Heater Mat
- 3) Thermal Insulation
- 4) Thermostat & Control Housing
- 5) Control Knob
- 6) Control Knob Access
- 7) Viewing Window
- 8) Armoured Power Cable

Health & Safety

HBD base drum heaters are manufactured to conform to the EEC low voltage and EMC directives and CE marked accordingly. Care should always be taken, to ensure the drum is adequately ventilated before applying heat.

PROCESS HEATING SERVICES LTD

Type HIBC Container Heater

Applications

The HIBC container heaters are designed to heat products stored in 1000 litre intermediate bulk containers.

Two types of heater are available. The HIBC/A is a silicone mat heater for placement below the container liner before filling. An insulation jacket covering four sides and the lid is also available to aid warm up time.

The second type is the HIBC/B, an insulated nylon heater jacket, which covers all four sides of the IBC and has an optional insulated lid.

Construction

The HIBC/A silicone mat heater comprises a high temperature resistance wire element, laminated between silicone/glass sheets. A PTC temperature sensor is also embedded between the sheets. This connects to an electronic temperature controller via the heater power cable and provides accurate measurement and fast response to temperature changes at the bottom of the IBC liner. This makes the heater suitable for both high-energy absorbing products and highly viscous, temperature sensitive materials.

The heating element of the HIBC/B heater is stitched into an insulated jacket made from a water resistant, Teflon / Polyester, insulated with a stitched blanket of needed silica glass complete with release buckles for ease of installation and removal. The jacket has two separate heating circuits for its upper and lower halves. Each circuit is controlled by an integral capillary thermostat.

Technical Data

HIBC/A Bag in a Box 1000 litres (inc controller)

- Rating: 2700 watts 230 volts AC
- Temp. Control: 0 to 90°C electronic controller (Digital Readout)
- Performance: Water temp. from 15°C to 70°C in 42 hours (Without insulation jacket)
- Water temp. from 15°C to 70°C in 30 hours (With insulation jacket)

Replacement HIBC/A Digital Controller available.



HIBC/B – 1000 litres (Insulation Lid extra)

- Rating: 2 circuits each 1000 watts 110 volt or 240volt AC
- Temp. Control: -5°C to 40°C or 0°C to 90°C capillary thermostat per circuit
- Performance: Water temp. from 15°C to 55°C in 56 hours (Without insulation lid)
- Water temp. from 15°C to 80°C in 56 hours (With insulation lid)



Health & Safety

All HIBC heaters are manufactured to conform to the EEC low voltage and EMC directives and CE marked accordingly.

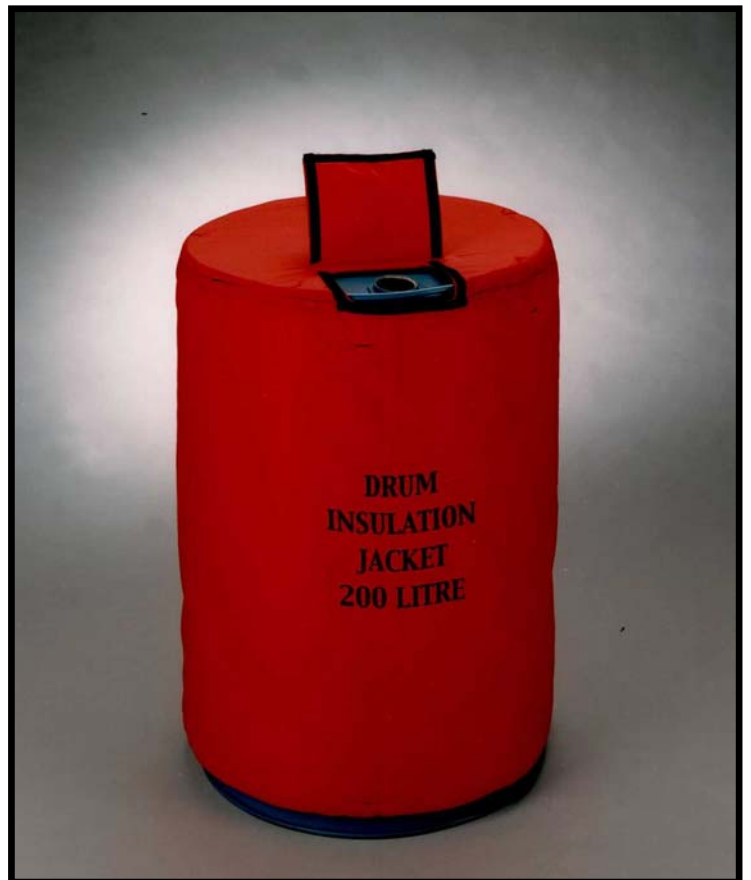
PROCESS HEATING SERVICES LTD

Type HIJD Container Jacket

Applications

HIJD Insulation Jacket can be used in conjunction with all the drum heaters in the range. When used with the HISD & HSSD side drum heaters, it can be fitted after heating to maintain the temperature for a longer period of time. With the HBD base Drum Heater it can be fitted during heating to reduce warm up time and increase the top range temperature attainable.

- Teflon / Polyester Jacket
- Maximum Temperature - 220°C
- Needled Silica Glass Insulation
- Water Resistant
- Sizes – 25L, 50L, 105L, 200L
- Easy Installation
- Non Standard Sizes to Order



Health & Safety

All HIJD heaters are manufactured to conform to the EEC low voltage and EMC directives and CE marked accordingly.

PROCESS HEATING SERVICES LTD

Type HISD Insulated Side Drum Heater

Applications

The HISD range of side drum heaters are a simple and effective method of applying heat to drums. Four standard sizes are available for drums of 25L, 50L, 105L and most common the 200L. All four sizes of side drum heaters have their own internal insulation to aid thermal efficiency. HISD side drum heaters are specifically designed for the melting or reducing the viscosity of soap's, fats, varnishes and oil based type of products. The 200L HISD can also be used in conjunction with the HBD base drum heater to increase product heat up.



Construction

The heating element of the HISD range of side drum heaters is stitched into an insulated jacket made from a water-resistant, Teflon / Polyester material, insulated with a stitched blanket of needled silica glass complete with quick release buckles for ease of installation and removal. The heating element is of double insulated construction for safety.

Technical Data

All HISD side drum heaters are supplied with 3 metres of braided power cable and fitted with either a -5 to +40°C or 0 to 90°C capillary thermostat and available in 110 volts or 230 volts AC.

Drum capacity	Wattage	Length	Width
25 litre	200	1020mm	400mm
50 litre	250	1250mm	460mm
105 litre	400	1650mm	370mm
200 litre	450	1950mm	450mm
200 litre	1200	1950mm	800mm Standard Steel Drums Only

Health & Safety

All HISD side drum heaters are manufactured to conform to the EEC low voltage and EMC directives and CE marked accordingly.

Additionally for safety, it is advised that power to the drum heater be disconnected when the drum is either empty or being filled, or upon installation or removal of the heater itself. It is recommended that the unit be operated in a dry environment with the drum vented to avoid build up of internal pressure.

PROCESS HEATING SERVICES LTD

Type HSSD Silicone Side Drum Heater

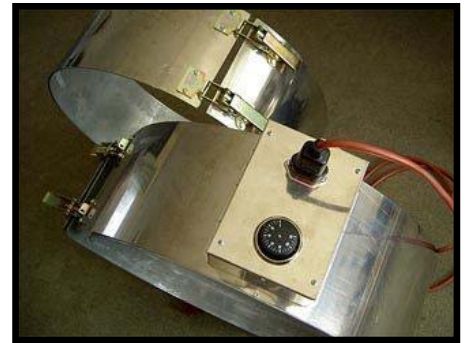
Type SSDH Steel Side Drum Heater

Item	Height	Diameter
SSDH30	30cm	20cm
SSDH47	47cm	20cm
SSDH57	57cm	20cm

Applications

The HSSD silicone / steel side drum heater is a simple and effective method of applying heat to 200 litre size drums. It has a higher watt density than the HSD type of heater jacket and multiple units up to a maximum of three can be used to give quicker warm up times and higher product temperatures.

HSSD silicone / steel side drum heaters are specifically designed for the melting or reducing the viscosity of soap's, fats, varnishes and oil based type of products. The HSSD can also be used in conjunction with the HBD base drum heater to increase product heat up.



Construction

The heating element of the HSSD side drum heater is PTFE coated and sandwiched between multiple layers of silicone coated glass fabric to give a double insulated construction for added safety. Attachment to the drum is via a quick and simple spring & clip arrangement that ensures good surface contact with the drum.



Technical Data

All HSSD side drum heaters are supplied with 2 metres of high temperature rubber insulated power cable and fitted with a 0 to 120°C capillary thermostat plus neon indicators for power and load on.

Specification:

Voltage: 220-240 volts AC
Power: 1000 watt or 1500 watt
Heater Size: 1665mm x 180mm
Heater material: Silicone rubber/Glass fibre sheet – Double Insulated Construction
Supply Lead: 1mm² twin core rubber insulated conductors – Neoprene sheathed
Temp. Control: 20 to 120°C adjustable capillary thermostat
Fixing Method: Stainless steel clips and spring
Enclosure: Black ABS enclosing thermostat body and all electrical connections

Health & Safety

All HSSD silicone side drum heaters are manufactured to conform to the EEC low voltage and EMC directives and CE marked accordingly. Additionally for safety, it is advised that power to the drum heater be disconnected when the drum is either empty or being filled, or upon installation or removal of the heater itself. It is recommended that the unit be operated in a dry environment with the drum

vented to avoid build up of internal pressure.

PROCESS HEATING SERVICES LTD

Type HTSD Insulated Side Drum Heater

Applications

The HTSD range of side drum heaters is based on the HISD design but has a higher operating temperature, (Up to 220°C). Four standard sizes are available for drums of 25L, 50L, 105L and most common the 200L. All four sizes of side drum heaters have their own internal insulation to aid thermal efficiency.

HTSD side drum heaters are specifically designed for the melting or reducing the viscosity of products that require higher temperatures than can be achieved with the HISD type.



Construction

The heating element of the HTSD range of side drum heaters is stitched into an insulated jacket made from a silicone insulated glass cloth, insulated with a needle mat of silica-glass filaments complete with quick release buckles for ease of installation and removal.

Technical Data

All HTSD side drum heaters are supplied with 3 metres of rubber power cable and fitted with 20-220°C capillary thermostat and available in 115 volts or 230 volts AC.

Drum capacity	Wattage	Length	Width
25 litre	380	1020mm	400mm
50 litre	450	1250mm	440mm
105 litre	700	1650mm	440mm
200 litre	1200	1950mm	800mm

Health & Safety

All HTSD side drum heaters are manufactured to conform to the EEC low voltage and EMC directives and CE marked accordingly.

Additionally for safety, it is advised that power to the drum heater be disconnected when the drum is either empty or being filled, or upon installation or removal of the heater itself. It is recommended that the unit be operated in a dry environment with the drum vented to avoid build up of internal pressure.

PROCESS HEATING SERVICES LTD

FOR INDUSTRIAL ELECTRIC HEATERS

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For air, oil, water and chemical solutions, can be formed into any shape required and fitted with various types of fixing glands, welded plates or waterproof flexible tails.

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- Flanged Type – 1KW to 2000KW
- Flameproof (Explosion-Proof) ATEX certified Eex-d constructions are also available.

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