

Tubular and Shaped Heating Jackets

- Custom Fit, Fast Install and Removal
- Thermally Efficient and Elegant
- Direct Heat to 1200°F (649°C)
- Even Watt Density, from 1 to 13.0 WSI
- Voltage, 120V to 480V/3ph
- Multi Heat Zones, Leads & Sensors



Heating Jackets with Controls are Custom Designed System Solutions. Contact HTS/Amptek® and receive professional assistance for your application. Call 281.340.9800 USA central time. Email info@heatingtapes.com

HTS/Amptek® Jackets are a great solution for flexible electric surface heat, whether a simple cylindrical surfaces such as pipes, cylinders, bottles and chambers, or other, more complex shapes which are engineered using patterns or the vessel itself. Rectangular, spherical, conical and many other shapes are common. Contact HTS/Amptek® for fast, professional design assistance.

All Jacket Heating Systems are custom designed. Simple cylindrical "Tubular" Jackets need only proper dimensions. Whether simple or complex, HTS/Amptek® will produce a drawing for approval before the fabrication may start. A temperature controller is required to regulate the Jacket(s). Single or Multi-Zone solutions are available from HTS/Amptek®.

More complex geometries require sophisticated techniques.

This "domed" vessel top needed even heat distribution. Direct heat



TEE JACKET

GLASS BOTTLE JACKET

MOLTEN PLASTIC TRANSFER LINE AND FLANGE HEATERS

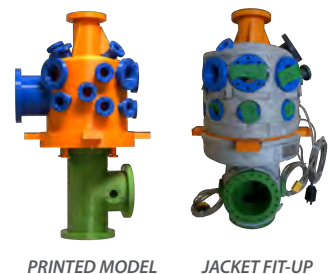


DOMED HEAD

transfer requires a continuous "no air gap" fit. This liner fabrication technique using multiple segments (gores) form the spherical shape. Then, the stitched on heating tape element, insulation, outer cover and flap closures complete the pre-formed Jacket.

Patterns or Models for Precise fit.

3-D printed patterns may be used during Heater Jacket fabrication. Other pattern options include wood and cardboard models or using the actual object to be heated. If practical the object would be needed for 2 to 4 weeks and then returned.



PRINTED MODEL

JACKET FIT-UP



SMALL OR LARGE ENCLOSURES CAN BE HEATED AND INSULATED. SLITS AND HOLES PROVIDE CONVENIENCE FOR INSTALLATION

Tubular Jackets are ideal for hot melt transfer lines. Keeping plastic molten and flowing is particularly easy with custom Jackets that provide even, accurate heat.

Contact HTS/Amptek®, or your representative, to discuss your application...



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Jacket Assembly Features



CGB CORD GRIP



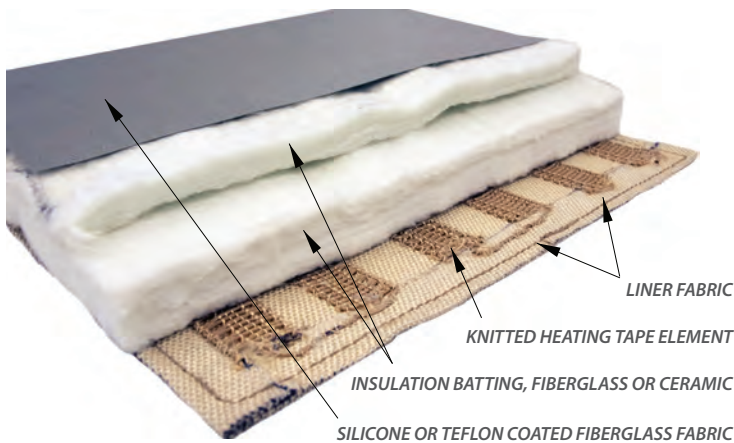
D-RING STRAP VELCRO® FLAP



HIGH TEMP EXTERIOR OPTION

Lead Wire is attached with a Strain Relief Loop, while the remaining MONO-Tape™ Element is stitched to the liner. Insulation and outer Fabric applied over-top.

Power and Sensor leads typically exit Jackets via Grommets. Strain Relieve methods include CGB fittings or Silicone molded Grommet Inserts.



Knitted Heating Element:

The serpentine knitted Heating Tape Element is durable and impervious to expansion stress. The multi-strand wire is Nickel alloy and pre-insulated with two layers of braided AMOX™ yarn.

Element, Sensors and Power Leads Stitched to the Liner:

High temperature Jackets and Blankets feature machine attached Heating Tape elements which are stitched bonded in an even matrix for optimum heat transfer. Lead Wires, Jumpers and Sensors are stitched in place with adequate strain relieve and sleeving where necessary.

Insulation, Outer Fabrics and Closures:

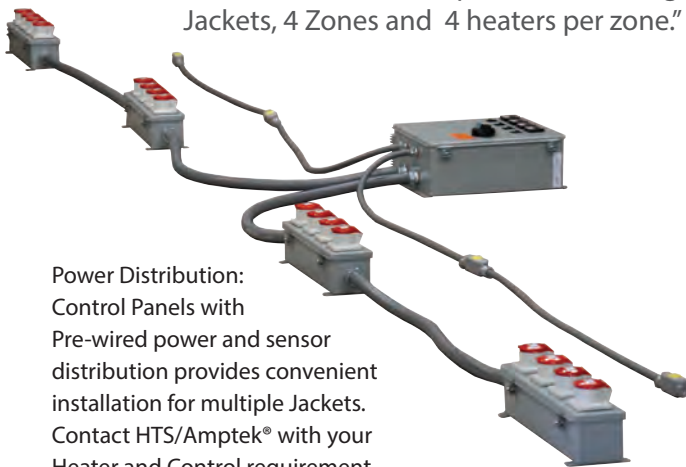
High temperature Insulation, TempMat™ or Ceramic Batting is applied in layers to preserve the shape of the Jacket. The outer Fabric is typically Silicone or Teflon™ coated providing strength and cleanability. Velcro Flap closures, with "D" Ring Straps, Grommets, Delrin Clips or Lacing Hooks.

Power Leads, Sensors and Plugs:

Lead Wires, Jumpers and Sensors exit Jackets via grommets or CGB fittings. They may be custom length and armored with Stainless flex. Desired connectors may be specified, such as Pin and Sleeve, Twist Lock, single or three phase.

Heating Jacket Control and Distribution Systems available from HTS/Amptek®

"This 4 Zone Control Panel powers 16 Heating Jackets, 4 Zones and 4 heaters per zone."



Power Distribution: Control Panels with Pre-wired power and sensor distribution provides convenient installation for multiple Jackets. Contact HTS/Amptek® with your Heater and Control requirement.



Standard Controllers: Standard Single Zone Controllers available from HTS/Amptek® are accurate and easy to use. Ideal for a Single Jacket, they are Auto-Tune PID with Solid State Relay output.

Custom Control Panels: Control Systems may be Wall, Floor, Rack or Portable Cart mount type. Contact support at HTS/Amptek® for expert design consultation.

Contact HTS/Amptek®, or your representative, for a custom configured Control System...

To Order or Additional information:

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