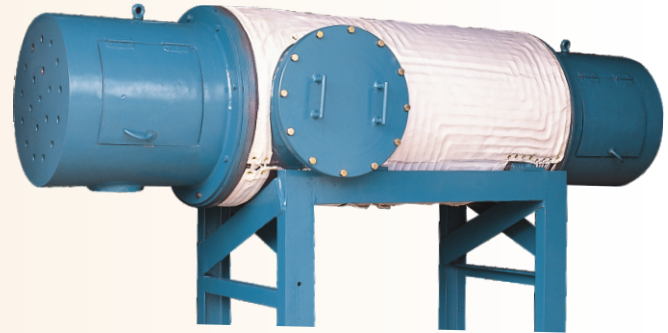


# Thermopads

## Heating Jackets

Thermo Heating Jackets are used to raise or maintain elevated temperatures of the contents in reaction vessels, storage tanks, tankers and process equipments in industries. They find application in chemical and pharmaceutical industry to heat viscous fluids, in cement industry for hopper heating to remove moisture in flue gases, in packaging industry for free flow of gums and in metallurgical industry for annealing of metals and similar applications.

This flexible electric heater provides heat from the external surface of the device to be heated. Catering to a wide temperature range from 100°C to 800°C. They eliminate high investment and operating costs associated with steam, oil, fire wood & conventional electric heating.



### Construction

Thermo heating jackets comprise of flexible heating elements distributed uniformly on a fibreglass or quartz cloth carrier. The fibreglass or quartz cloth carrier is tailored to the shape of the vessel to be heated. Eye-lets and laces provided on the panels ensure a snug fit of heater on the surface being heated, avoiding any air gaps. The heating elements terminate on cold leads, which are connected to the power supply.

### Features

<b>Uniform Heating</b>	Close and evenly distributed heating element ensures effective and uniform heating
<b>Highly Efficient</b>	Heat is applied on the surface from where heat loss occurs resulting in minimal heat loss
<b>Easy maintenance</b>	Being an external heating system, maintenance is possible without the need for costly, disturbing shutdowns
<b>Precise Temperature Control</b>	Thermostatic controls associated with heaters enable very precise temperature control with minimal thermal lag
<b>Adaptability</b>	The high flexibility of the carrier material enables the heaters to fit snug on complicated shapes and bends and hence suited to all shapes and sizes
<b>Long Life</b>	The high flexibility also ensures good heating element contact resulting in lower element temperatures and hence long life

### Technical Specifications

<b>Operator Temperature (Max.)</b>	Fibre glass Jackets - 400°C, Quartz Jackets - 800°C, PTFE Jackets - 150° - 200°C
<b>Operating Voltage</b>	230V single phase or 440V three phase
<b>Heat Load</b>	Upto 6kW/m <sup>2</sup> max.

Designed to suit individual requirements incorporating cutouts to accommodate any shape and size.

## Insulation Pads

Thermal Insulation Pads are used to insulate hot surfaces in gas turbines, valves, filters, meters and other accessories in a process line. They ensure energy conservation, protection to operators and provide comfortable work environment. These are typically used as a backing over the heating jacket or heating panel, to ensure better heat efficiencies and minimal energy loss.

### Construction and Features

- Outer layer fibre glass cloth (aluminized or PVC / PU coated or Teflon coated).
- Insulation of fibre glass wool of thickness 25mm to 100mm (as desired).
- Inner layer fibre glass cloth. Pad suited to maximum surface temperature of 300°C.
- Insulation pads can be tailored to any complex shape, to fit snug on the vessel or surface to be insulated.
- Required cutouts provided for obstructions or projections.
- Velcrow or Eyelets & laces provided for strapping.

