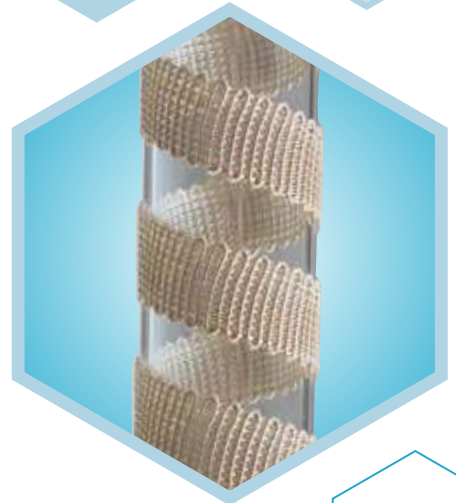


Tempo

Controlled Temperature Solution

FLEXOTHERM

Flexible Heating Solution



flexotherm.in

FLEXOTHERM

Heavy Insulated Heating Tapes (350°C)

- Lead Wires on one end
- Spiral Heating Element design to give better temperature uniformity.
- Heavy Braided Fibre Glass Outer Cover.
- 350°C High Temperature Capability for continuous use.
- Robust & Flexible Element.
- Lower Watt Density, enhancing longer life through better distribution of heat. (Lower watts per cm of wire)
- 25mm wide tapes may be easily applied to diameters as small as 12mm.
- Temperature controller system (Digital / Thermostatic) can be provided for display, monitoring and safe operation.

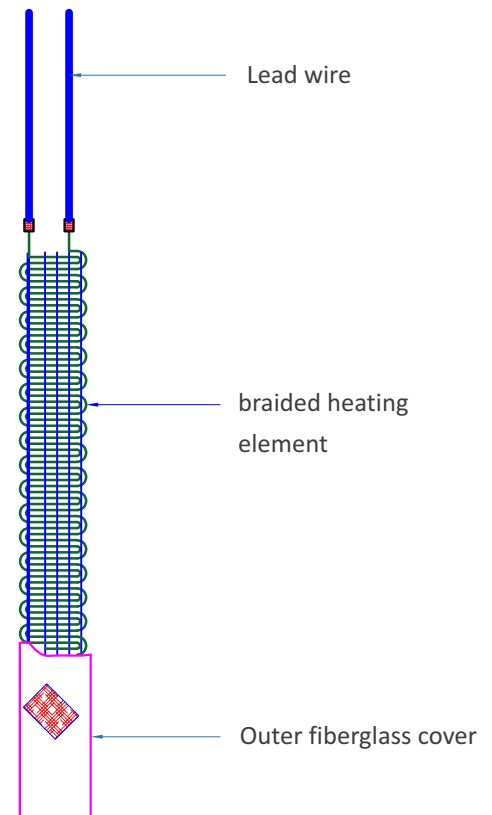


Heating Tape : High Watt Density

catalog no.	size (width x length mm)	watt	volt
TI-681-HIT-H2	25mm x 600mm	310	230 V
TI-681-HIT-H4	25mm x 1200mm	620	230 V
TI-681-HIT-H6	25mm x 1800mm	930	230 V
TI-682-HIT-H2	25mm x 600mm	310	110 V
TI-682-HIT-H4	25mm x 1200mm	620	110 V
TI-682-HIT-H6	25mm x 1800mm	930	110 V

Heating Tape : Medium Watt Density

catalog no.	size (width x length mm)	watt	volt
TI-681-HIT-M2	25mm x 600mm	210	230 V
TI-681-HIT-M4	25mm x 1200mm	420	230 V
TI-681-HIT-M6	25mm x 1800mm	630	230 V
TI-682-HIT-M2	25mm x 600mm	210	110 V
TI-682-HIT-M4	25mm x 1200mm	420	110 V
TI-682-HIT-M6	25mm x 1800mm	630	110 V

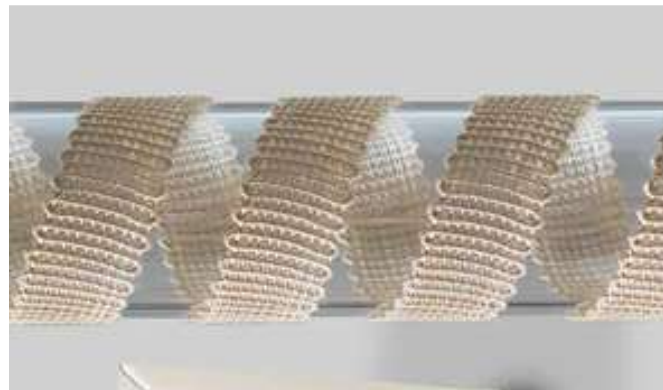


Heating Tape : Low Watt Density

catalog no.	size (Width x Length mm)	watt	volt
TI-681-HIT-L2	25mm x 600mm	80	230 V
TI-681-HIT-L4	25mm x 1200mm	160	230 V
TI-681-HIT-L6	25mm x 1800mm	230	230 V
TI-682-HIT-L2	25mm x 600mm	80	110 V
TI-682-HIT-L4	25mm x 1200mm	160	110 V
TI-682-HIT-L6	25mm x 1800mm	230	110 V

Standard Insulated Heating Tapes (350°C) (For Non-Conducting Surfaces)

- These Tapes are recommended for use on non-conductive surfaces such as glass or ceramic. (Not recommended for Conductive surfaces such as metal etc)
- Lead Wires on one end
- Spiral Heating Element design to give better temperature uniformity.
- 350°C High Temperature Capability for continuous use.
- Robust & Flexible Element.
- Lower Watt Density, enhancing longer life through better distribution of heat. (Lower watts per cm of wire)
- 25mm wide tapes may be easily applied to diameters as small as 12mm.
- Temperature controller system (Digital / Thermostatic) can be provided for display, monitoring and safe operation.



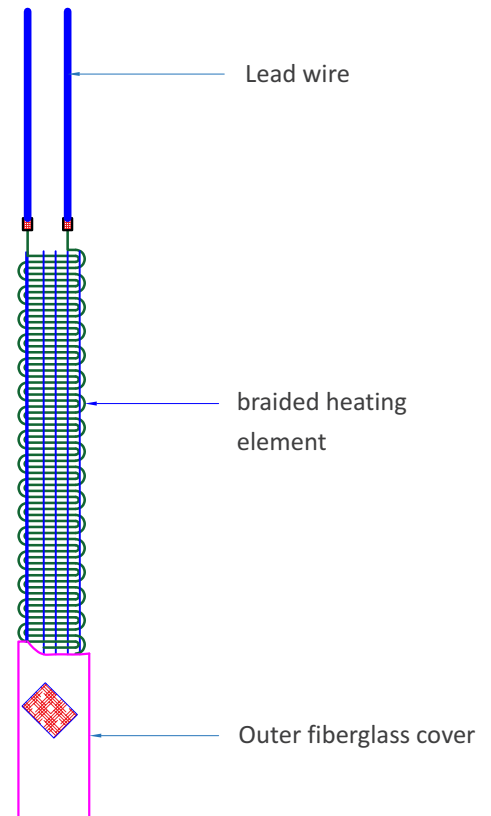
Heating Tape : Medium Watt Density

catalog no.	size (Width x Length mm)	watt	volt
TI-681-SIT-M2	25mm x 600mm	210	230 V
TI-681-SIT-M4	25mm x 1200mm	420	230 V
TI-681-SIT-M6	25mm x 1800mm	630	230 V
TI-682-SIT-M2	25mm x 600mm	210	110 V
TI-682-SIT-M4	25mm x 1200mm	420	110 V
TI-682-SIT-M6	25mm x 1800mm	630	110 V

FLEXOTHERM

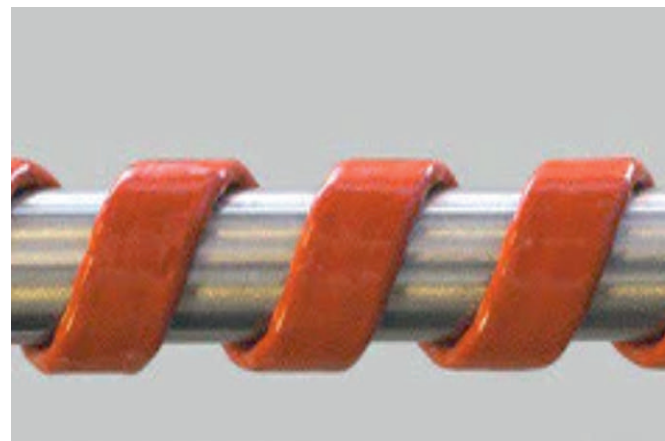
Heating Tape : Low Watt Density

catalog no.	size (width x length mm)	watt	volt
TI-681-SIT-L2	25mm x 600mm	80	230 V
TI-681-SIT-L4	25mm x 1200mm	160	230 V
TI-681-SIT-L6	25mm x 1800mm	230	230 V
TI-682-SIT-L2	25mm x 600mm	80	110 V
TI-682-SIT-L4	25mm x 1200mm	160	110 V
TI-682-SIT-L6	25mm x 1800mm	230	110 V



Silicon Heating Tape (180°C)

- Lead Wires on one end
- Extruded Silicone Rubber Outer Cover
- Max operation Temperature 180°C
- Moisture Resistant Construction.
- The Silicone Rubber Extrusion uses a low durometer with heat additives to produce the maximum exposure and continuous operating temperature capability, Longer Life, Lower Watt Density.
- Lower watts per inch of wire, enhances longer Life through better distribution of heat.
- Ultimate flexibility. 25mm wide tapes may, be easily applied to diameters as small as 12mm.
- Safe to use on conductive surfaces such as metal tubing.
- Temperature controller system (Digital / Thermostatic) can be provided for display, monitoring and safe operation.



CUSTOMISED DESIGN AVAILABLE

Silicon Heating Tape : 180°C

catalog no.	size (width x length mm)	watt	volt
TI-681-SIL-L2	25mm x 600mm	100	230 V
TI-681-SIL-L4	25mm x 1200mm	200	230 V
TI-681-SIL-L6	25mm x 1800mm	310	230 V
TI-682-SIL-L2	25mm x 600mm	100	110 V
TI-682-SIL-L4	25mm x 1200mm	200	110 V
TI-682-SIL-L6	25mm x 1800mm	310	110 V

Silica Heating Tape (600°C)

- Silica fiber heating tape is a type of electrical heating element or heating tape that is designed for high-temperature applications
- It is often used in industrial processes, laboratories, and various other settings where controlled heating is required at elevated temperatures.
- Construction:-Silica fiber heating tape is typically made from high-purity amorphous silica fibers, which have excellent resistance to high temperatures and can withstand temperatures well above 1000°C (1832°F). The silica fibers are often woven into a tape-like form
- Flexibility: Silica fiber heating tape is flexible and can be wrapped around or shaped to fit the specific object or surface that needs to be heated. This flexibility makes it suitable for various heating applications, including pipes, vessels, and laboratory equipment.
- Uniform Heating: It provides uniform heating along its length, ensuring that the target area reaches and maintains the desired temperature consistently.



catalog no.	size (width x length mm)	watt	volt
TI-681-HST-H2	25mm x 600mm	350	230 V
TI-681-HST-H4	25mm x 1200mm	700	230 V
TI-681-HST-H6	25mm x 1800mm	1100	230 V

FLEXOTHERM

Flexible Insulated Heating Cord (400°C)

- Designed for use on small tubes, vessels, or any application where space is limited.
- Heating cords are used when heating tapes are too bulky or cumbersome
- Ideal for laboratory, R&D, gas tubing, production, maintenance, temporary heat, and more...
- These 6 mm diameter cords solve a wide range of limited-space heating applications in laboratory, production, Industrial applications.
- 400°C High Temperature Capability for continuous use.
- Rapid thermal response.
- Temperature controller system (Digital / Thermostatic) can be provided for display, monitoring and safe operation.



High Wattage : Rapid Heating Cords (641 series)

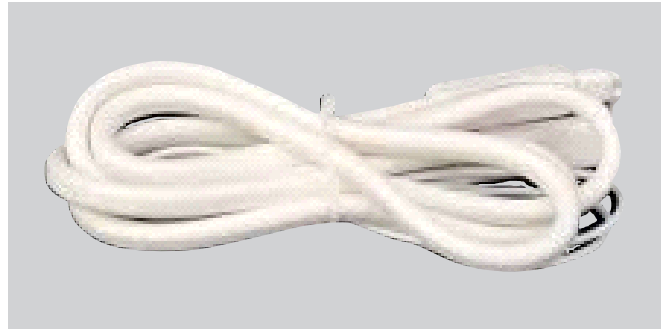
catalog no.	length (mm)	watt	volt
TI-641-INS-H1	1000mm	200	230 V
TI-641-INS-H2	2000mm	400	230 V
TI-641-INS-H3	3000mm	600	230 V
TI-641-INS-H4	4000mm	800	230 V
TI-641-INS-H5	5000mm	1000	230 V

Low Wattage : Heating Cords (64 series)

catalog no.	length (mm)	watt	volt
TI-64 A	2500 x 3 cords	125 x 3	230 V
TI-64 B	5000 x 3 cords	250 x 3	230 V
TI-64 C	10000 x 3 cords	500 x 3	230 V
TI-64 D	20000 x 3 cords	1000 x 3	230 V

Silicon Heating Cord (100°C)

- Heating Cords with Silicone Rubber Cover provided for use on Conductive and moisture surface.
- Safe for use with metal and electrically conductive surfaces.
- Widely used in application involving condensation prevention etc
- Maximum exposure temperature - (Removable & reusable use 100°C)
- Temperature controller system (Digital / Thermostatic) can be provided for display, monitoring and safe operation.



catalog no.	length (mm)	watt	volt
TI-641-SIL-L1	1000mm	40	230 V
TI-641-SIL-L2	2000mm	80	230 V
TI-641-SIL-L3	3000mm	120	230 V
TI-641-SIL-L4	4000mm	160	230 V
TI-641-SIL-L5	5000mm	200	230 V

Temperature Control Options

Digital Temperature Control

- Digital on/off controller
- Compact portable design
- Plug-in operation
- Advanced PID control
- RTD or Type-K thermocouple input



Drum Heating Jacket

Electric drum heaters are used to heat the contents of drums or barrels, typically in industrial settings. Jacket type electric drum heaters wrap around the drum and provide uniform heating. Flexible construction allows the heater to conform closely to the drum's shape for efficient heat transfer.

Maximum Temperature :- 120°C.

Temperature Control : Digital thermostat 30 - 120 Deg.C.

- High grade thermal insulation to reduce heat-loss and increase efficiency.
- Even heat distribution and maximum energy efficiency
- Easy-to-use —simple plug-and-play design
- Reusable and rugged —long service life
- Ideal for a wide range of poly and metal drum/pail heating applications including viscosity control, freeze protection, temperature maintenance, melting of solids, and thermal mixing
- Silicone impregnated outer clothing
- Closure method : Belt
- Available in capacities 1 Kw, 1.5Kw, 3 Kw, 4.5 Kw for standard 20/50/200 Litre Poly / Metal drum size(Also Available Custom sizes)
- Supply : 240V A/c, Single Phase.



Silicon Rubber Drum Heater / Belt Heater (120°C)

- For standard 200 Liter, 50 Liter & customized sizes
- Chemical and moisture resistant and extremely rugged
- Fitted with adjustable retaining spring and quick release hooks.
- Available with or without temperature control.
- 240 volt AC
- Ideal for wide variety of plastic, fibre and metal containers
- Available in various capacities for standard 200 / 150 / 50 liter poly / Metal drum or custom size.



CUSTOMISED DESIGN AVAILABLE

Drum Metal Heater

The base heaters for drums in the vertical position and is suitable for use with type TI - 129 B drum heaters.

Tempo drum heaters provide an easy, efficient, clean and economical way for the handling of viscous or low melting point solidified materials in drums. Such materials include Asphalt, Bitumen, Fats, Gelatin, Glucose, Grease, Lubricating oils, Paints, Petroleum Jelly, Phenols, Plastics, Sodium Tar, Vanaspati Oil, Varnishes & Waxes etc.

Tempo drum heaters are mobile ovens heated by flexible surface electric heating elements. They are made in rugged designs and stand normal usage in chemical industries. They can be used for heating the contents of drums kept in the vertical or horizontal positions. The contents will be heated at a rate depending on the size of the drum and its contents. The contents may either be melted completely and removed as liquid or they may be melted only at the surface touching the drum walls and removed as a solid block by lifting the drum.

The heating in Tempo Drum Heaters is gentle and uniform and there is no chance of local overheating. Automatic temperature control is provided as standard equipment, except in the base and top heaters in which it is not required.

CONSTRUCTION

Base Heater:-

The base heater for drums in the vertical position & is suitable for use with type TI-129 B drum heater.

Vertical Drum Heater:-

TI-129 B is a vertical drum heater in two sections hinged to each other, forming a cylindrical heater when closed. It is fitted with castor wheels. The standard model can take a standard size drum of 45 gallons capacity.

Heating System:-

The heating in "Tempo" make Drum Heaters are gentle and uniform and there is no chance of local overheating.



TI-129B - DRUM HEATER



TI-129A - BASE HEATER

Gas Cylinder Warmers

FEATURES & Benefits

- Full coverage warms entire body of gas cylinder
- 10 ft (3 m) long power cord
- Improves process control and reduces wasted condensed gas by creating a convection current and increasing the pressure inside the cylinder
- SF6, Propane, Nitrogen, Oxygen, BCl3, WF6, and HF gases benefit from this process
- Even heat distribution and maximum energy efficiency
- Easy-to-use simple plug-and-play design
- Reusable and rugged with long service life
- Intrinsically safe — design can be used in hazardous environments (HCW series)

SPECIFICATIONS

- Outer Material: Silicone impregnated cloth
- 2 Inch thick fiberglass insulation
- Up to 150 watts total wattage
- 230V voltage
- Frequency range: 50-60 Hz
- Velcro or belt closure
- Ambient Temperature Range: 5 to 30°C
- 10 feet long HCW power cord with bare wire leads



Heating Mantles

Heating Mantles are used for heating / boiling solutions in round bottom flask. it is generally used by organic & general chemistry labs in colleges, universities, some high schools, Industrial & pharmaceutical chemical labs, medical labs, and research institutes.

TECHNICAL DATA

Max. surface Temp:- 400°C

Supply:- 230V, AC

CONSTRUCTION

Controlling System:- Energy Regulator & Pilot Lamp

Heating System:-

The heating cords are stitched in glass yarn knitted cloth.

The glass yarns acts as good electrical insulator & dissipates the heat very effectively.

Flask Size Capacity:-

50 ml - 250 ml, 100 ml - 500 ml, 250 ml - 1000 ml, 500 ml - 3000 ml, 1liter - 5 liter



Soxhlet Extraction Heater

Soxhlet Extraction Heaters are used in laboratories for Solvent Extraction under reflux. Typical applications are determination of residual oil content in oil cake, assay of crude herbal drug sources etc. Tempo Soxhlet Extraction Heaters are suitable to heat Soxhlet flasks of 100-350 ml capacity. The heating element is attached to knitted fabric to provide flexible support to the bottom of the flask. Glass wool insulation fills the gap between the metal casing and the heater. In event of spillage, the solvent will either evaporate or escape through the draining hole below each element. The housing has two retort rods and a cross bar on which the extraction apparatus is fixed. The Apparatus has built in energy regulator which controls all the heaters. The heating elements have individual ON/OFF switch and pilot lamp to indicate working.



TECHNICAL DATA

Max. surface Temp:- 400°C

Supply:- 230V, AC

CONSTRUCTION

Controlling System:- Energy Regulator & Pilot Lamp

Heating System:-

The heating elements is attached to knitted fabric to provide flexible support to the bottom of the flask. Glass wool insulation fills the gap between the metal casing & the heater

Heaters:- 4,6

Drum Heating Oven



CUSTOMISED DESIGN AVAILABLE



Tempo Instruments Manufactures flexible surface heaters with experience in Design, Engineering and flexible electric heaters and controllers since 1951 to bring customer the very best product

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