

HEATERS





TUBULAR HEATERS

Applications

G Plastic processing and furnace packing machinery

GOvens and Furnace

GWater and Oil heating application

GVending Machine

G Kitchen equipments

GMedical Equipments

Types

G Straight and formed heaters (as per customer req.)

GFinned typed tubular heaters

G Tubular Heaters with bulk Head fittings

G Flameproof heaters

G Corrugation heaters

G Duct heaters

WATER & OIL IMMERSION HEATERS

For water immersion 60 W / inch max. surface temp. 400°C





AIR HEATER (WITH OR WITHOUT FINNS)

40 W / inch max. surface temp. 650°C

Sheathed in SS 304 / 316 / Incoloy / Chrome steel tube. Consist of MgO compacted heating element. Made as per requirement Size and Shape.



HOT RUNNER HEATERS / MICRO TUBULAR COILED HEATERS

Features

G Higher Watt density

G Built in type J or K thermocouple

GMax operation Temp 800°C

G Even Temp profile

GMax. heat transfer due to more contact area

GMax. total length upto 3000 mm

Applications

G Moulds & Dies G Nozzle heating

G Medical equipments

GHot runner bushing

Specification

Standard size for coil heaters Round : 3,4,4.5,5 mm dia Square : 3x3, 3.2x3.2

Flat : 2.2x4.3, 2.5x4.3, 2.5x4.5, 3x4.5, 3x5.2



CARTRIDGE HEATERS (HIGH & MEDIUM WATT DENSITY)

Features

G Nickle Chrome Resistance wire GMax 4 watt / Cm² - for low density GMax 50 watt / Cm² - for high density

GMax. operation temp 800°C

G For low density 250°C for brass & 400°C for SS

Specification

Dia : 4,6,8,10,12,16,19,20,22,25 mm

(also inch size) Length: 40 - 500 mm

Voltage: 240 / 110 / 50 V or custom specification

Sneath: SS 304, Brass



Applications

G Plastic Processing machinery G Moulds & Dies & Packaging m/c G Food processing machinery G Medical Equipments

CAST IN HEATERS

Features

G Efficient heat transfers

G Uniform surface temperature

G Exceptionally long life

G Surface Temp. 300°C

G50W/sq.inch

Applications

G Packaging Machinery

GInjection & Blow Moulding

G Extruders

GThermoforming equipments

G Medical equipments

Types

GAir / Water coiled type GCast in plate & round heater GL & U shaped cast in heater GCustomized designed cast in heater





MICA INSULATED BAND HEATERS

Features

G Nickle Chrome Ribbon

G Available with inbuilt insulation pad to reduce power consumption

GMax 3.6 watt / Cm²

GMax operation Temp 250°C

GLow cost

Specification

Dia : 2" or 50 mm & up Width : 1" or 25 mm & up

Voltage : upto 480 V (Single / three phase)
Terminals : Junction Box fitted with braided

cable & post terminal

Sneath : SS 304 Thickness : 6 mm Insulation : Mica

Applications

G Plastic processing machinery G Injection & Blow Moulding G Extruders

G Hot runner bushing



CERAMIC BEND HEATERS

Applications

G Plastic processing machinery G Injection & Blow Moulding

G Extruders



Features:

G Nickle Chrome resistance wire

G Ceramic fibre insulation

Greduce power consumption by 20 to 30%

G Available with heating and cooling combination

GMax 7 watt / Cm² (50 W / SQ inch)

GMax operation Temp 700°C

Types

Dia : 21/2" or 65 mm & up Width : 11/2" or 38 mm & up

Voltage : upto 480 V (Single / three phase)
Terminals : Junction Box fitted with braided

cable & post terminal

Sneath: SS 304 Thickness: 12 mm

CERAMIC BOBBIN CARTRIDGE HEATERS

Nickle Chrome / Kanthal resistance wire Available in Dia. 26 mm to 55 mm & upto 3000 mm

Specification

G For Oil - 1.4 to 4.0 W / Cm²
G For Water - 1.4 to 8.0 W / Cm²
G For Metals - 2.0 to 5.0 W / Cm²
G For Air - 1.6 to 3.2 W / Cm²

Applications

G Heating liquids & Gases G Dryers and Ovens G Printing & Packaging Industries





HEAT TRACERS

Product Description:

Sensewell Tracers are made with superior quality imported grade Teflon (PTFE) insulated and braided with S.S. fine gauge multiwires. It is moisture proof & chemical proof and can be widely used for temperature maintenance applications on edible oils, chemicals, furnaces Oils, LDO, Bitumen pipelines, storage tanks of Boilers, Furnaces, D.G. Sets, etc. suitable to maintain a maximum temperature of 260°C.

Technical & Other Details:

Withstands temperature raging -60 $^{\circ}$ C to +260 $^{\circ}$ C. Totally moisture & chemical proof to use under any outdoor condition. Designed to meet Indian & International standards and to use under explosive areas, such as petroleum products to confirm to the International standard of BS-6351. Designed life of over 20 years continuous usage. Available in 23, 33, 45 watts/meter in 230 volts standard & upto 150 mt. single length

A very economical and reliable alternative to conventional tracers. Its flexible nature helps in easy installation on any surface and available in wide range.

Sensewell Heat Tracers are tested by CMRS, Dhanbad and approved by Chief Controller, Department of Explosives, Nagpur.

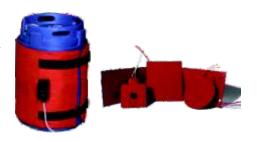
Applicable Industries:

Iron Steel, Glass Furnace, Edible Oils, Refineries, Biscuit, Bitumen, Wax, Petroleum Jelly Industries etc.



DRUM HEATERS

We have all kinds of heaters for various drum and pail of different sizes from 5 kg to 200 kg., Built-in adjustable thermostat allows user maintain the desired temperature. As they conduct heat through the drum wall to the material inside the drum or pail, drum heaters can operate at higher temperatures and work faster on metal drums because of better thermal conductivity. We also have gentle drum heaters for plastic and fiber drums. Silicone Drum Heater.



INFRA RED HEATERS (SHORTWAVE & MEDIUM WAVE)

Tugstan filament consists in quartz tube sealed with inert gas having terminal leads at both ends it can be housed in metal box with the reflector as per requirement

Features:

Max Watt density: 100W/Linear inch

Max Surface temp: 1500°C Wave length: 1: 16 microns





CERAMIC SEALED INFRARED HEATERS

Special ceramic body, medium wave length radiation, emitting external surface. Can be made in curved or flat shape as per the following sizes: 245x60-1 KW, 122x60 - 500 W, 122x122 - 1 KW available with built in thermocouple and reflectors with fixing clips for easy installation.



Features:

Max Watt density: 44W/sq. inch Max Surface temp: 800°C Wave length : 3 to 4 microns

Application:

Paint backing, Rubber coating, Ink drying Powder coating industries, Paper, Tiles industries Screen printing, Lamination & Thermoforming etc.

TECHNICAL DETAILS AND FORMULA

Watt Density Calculations

Band Heaters:

Wattage Watt / cm²= (3.142 x Diameter x Wigth) - (Cold Area)

Cartridge and Tubular Heaters

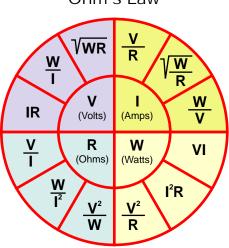
Wattage Watt / cm²= 3.142 x Diameter x Heated Length

Strip Heaters:

Wattage Watt / cm²= Heated Length x Width

Note: Diameter, Length, Width in cms.

Ohm's Law



OTHER PRODUCTS

G Industrial Oven & Furnace G Hot Air Blower

G Hot Plates G Heating Mantle

G Water & Oil Bath G Heating Control Panel

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