

SUBHOT[®]

INDUSTRIAL HEATERS

OVER THE SIDE IMMERSION HEATER

Specialist In: Custom Built Heaters & Heater Assembly Unit Along-With Temperature Controller As Per Customer's Specification.



AN ISO 9001:2015 COMPANY

NSIC
CERTIFIED CO.

CE

ZED
Zero Effect Zero Defect

D&B
Decide with Confidence

MEMBER OF MULTILATERAL
RESPONSE ARRANGEMENT
IAF

etiāci
Delivers International Accreditation Conky
035-CB-QMS

GeM
Government
e Marketplace
Efficient • Transparent • Inclusive

www.subhoheater.com

+91 9999710410, 9311163794, sales@subhoheaters.com, info@subhoheaters.com

51/10, Madhuban Bapudham Industrial Area, Meerut Road, Ghaziabad, Uttar Pradesh 201013

SUBHOT ENTERPRISES PRIVATE LIMITED

Company Profile

"SUBHOT" the brand name of **Three Decades Rich**, quality oriented and completely indigenously manufactured IEC standard product since 1990, we are catering successfully to domestic and international Industries. We design develop and supply industrial heaters, heating elements, thermocouples and other high temperature Material Management equipments as per the customer's requirement. We have in house Design, Development & research facilities, follows by stringent quality control measures right from beginning to delivery of the material. Customer satisfaction is our first priority.

We manufacture various types of Tubular Electrical Heaters and heating systems, along with control accessories Cartridge Heaters, Mica Band Heaters, Ceramic Band Heaters, Casted Heaters, Furnace Heaters, Nozzle Heaters, Coil heaters, which are used in Hazardous and Non Hazardous area. In Tubular Electrical heater Heating element is Mineral filled sheathed tubular type. Heating element Insulation material used is Mgo (Magnesium oxide) and heating element wire material is Nichrome. Heating elements are manufactured and tested as per IS-4159 BIS Standards. Electrical heaters are suitable for application for Water, Oil, Chemical, Air, Fuel gas, Natural gases etc and Design as per requirement of customer based on the technical input provided by them. Heating unit consist of Heater vessel, Heater bundle, Terminal box, and U-Shaped heating element fitted on Tube sheet .The selection of heating element for a particular assembly depends on the uses & customers requirement total rating, surface loading, diameter of heating element tube, Operating temperature, space limitation, Type of electrical connection and number of bank etc. The heating element can be permanently fixed on tube sheet OR Can be removable type. Various Sheath material and sizes are available based on design requirement. The heating unit can be supplies Complete with Heater Vessel, Inlet-Outlet Nozzle/Flange, Lug Support and external insulation.

Heater vessels are generally designed as per ASME SecVIII Div-1. For Hazardous area flameproof terminal box are used which are duly certified by CMRI Dhanabad for Gas group IIA, IIB or IIC.

We are also manufacturing the following product at our works:

- Immersion heating elements for Water, Oil and Chemical heating.
- Air Heating element
- Fuel gas and Process gas heater.
- Regeneration heaters.
- Large heating unit upto 520KW with terminal box and control panel.
- Heater for ESP and Ash handling system.
- Cartridge Heaters
- Mica Band Heaters
- Ceramic Band Heaters
- Casted Heaters
- Furnace Heaters



Size of heating tube: 8.2mm, 9.5mm, 11.0mm, 12.0mm, 12.5mm, and 16.0mm,19.0 mm or as per customer requirement.

MOC of Heating Tube: Copper, Titanium, SS all grade, Incoloy 800,Inconel etc.

Sizing of Tube Sheet: As per design requirement.

Sizing of Heater Vessel: As per design requirement.

Thermocouple: J & K Type own make in SS all grade and Incoloy.

OVER THE SIDE IMMERSION HEATER



DESCRIPTION

Over-The-Side Immersion Heaters Are Designed For Direct Heating Of Liquids In Open Or Closed Tanks Without Requiring Any Tank Penetration. The Heating Elements Are Formed Into L-Shaped, O-Shaped, Or Custom Configurations To Hang Over The Tank Wall, Allowing The Heated Section To Be Submerged In The Process Liquid.

These Heaters Are Ideal For Applications Where Portability, Ease Of Installation, And Quick Removal Are Important. With Sheath Materials Available In Stainless Steel, Incoloy, Or Titanium, They Are Compatible With Water, Oils, Chemicals, And Corrosive Solutions. Optional Integrated Controls Provide Precise Temperature Management For Safe And Efficient Operation.

COMPONENTS

Component	Specification
Hairpin Coil Element	NiCr or FeCrAl tubular coils packed with MgO for efficient heat transfer.
Terminal Enclosure	IP65, ATEX-rated housing with ceramic block and cable gland for secure wiring.
Mounting Bracket	Adjustable clamp or flange to hook over tank rim — stainless or plated steel.
Thermostat / Controller	Integrated adjustable thermostat or remote control panel for precise temperature regulation.
Safety Guard	Optional stainless-steel guard to prevent accidental contact and protect element.

TECHNICAL SPECIFICATION

Parameter	Specification
Heater Sheath Material	SS304/310/316/321, Incoloy, Titanium
Shapes	L-shape, O-shape, Vertical loop (Customizable)
Thread / Mount	1"–4" NPT, BSP, adjustable clamp
Immersion Length	50 mm to 3000 mm
Watt Density	Up to 15 W/cm ²
Voltage	Up to 480 V AC/DC
Control Options	Built-in thermostat, remote SSR/SCR panel

ADVANTAGES

- **No Tank Penetration** – Installs over the side without welding or drilling.
- **Quick Installation & Removal** – Service or relocate without draining the vessel.
- **Corrosion-Resistant** – Multiple sheath options for harsh chemical environments.
- **Portable Heating** – Can be used across different tanks for flexible operation.
- **Precise Temperature Control** – Integrated or remote controls for process accuracy.
- **Custom Configurations** – Shapes, lengths, and mounting options tailored to your needs.

APPLICATIONS

- **Oil Heating** – Suitable for drums, reservoirs, and viscous fluid systems.
- **Chemical Processing** – Degreaser tanks, acid baths, and plating solutions.
- **Industrial Plating** – Heating in electroplating and anodizing processes.
- **Portable Heating Units** – Steam or hot-water generation for temporary setups.
- **Viscosity Control** – Maintains fluid flow in pipelines and storage tanks.

FEATURES

- **Install or Remove Without Draining** – Minimal downtime during maintenance.
- **Portable Design** – One heater can service multiple tanks.
- **Robust Construction** – Designed for industrial durability and long life.
- **Customizable Shapes & Lengths** – Tailored to match vessel size and shape.
- **Safety Options** – Explosion-proof and hazardous-area rated models available.