

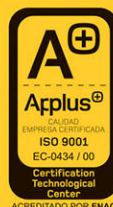
Electric Heating Solutions

www.resistenciastope.com



RESISTENCIAS

tope



SKID HEATERS

Electric process heater skid packages are designed and manufactured which can be engineered to meet specific requirements including: electric process heaters, flow measurement, flow control valves, thyristor/contacter control system, temperature measurement, instrumentation, pressure measurement instrumentation, start up and commissioning are available.

Applications:

Clean water, freeze protection, boiler and water heaters, cooling towers, steam boilers, mildly corrosive solutions (in rinse tanks, spray washers), oils, gases, mildly corrosive liquids, stagnant or heavy oils, high temperature, low flow gas heating, process water, soap and detergent solutions, soluble cutting oils, demineralized or deionized water, mildly corrosive solutions, severe corrosive solutions, demineralized water, light oil, food equipment, etc..

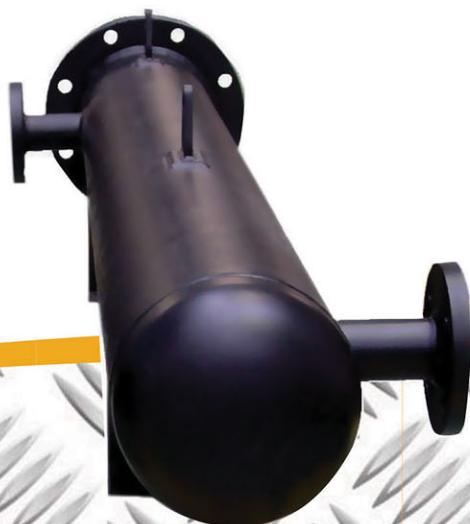


CIRCULATION HEATERS

Circulation heaters can be made from a wide range of heating element sheath materials, wattages, vessel sizes and materials, pressure ratings, terminal enclosures and controls. Our design approach offers simple solutions to complex requirements. Circulation heaters are designed to heat forced-circulation air, saturated steam, gases or liquids.

Applications:

Clean water, freeze protection, boiler and water heaters, cooling towers, steam boilers, mildly corrosive solutions (in rinse tanks, spray washers), oils, gases, mildly corrosive liquids, stagnant or heavy oils, high temperature, low flow gas heating, process water, soap and detergent solutions, soluble cutting oils, demineralized or deionized water, mildly corrosive solutions, severe corrosive solutions, demineralized water, light oil, food equipment, etc..



IMMERSION HEATERS

Immersion heaters are designed primarily for direct immersion in liquids such as water, oils, solvents and process solutions, molten materials as well as air and gases. By generating all the heat within the liquid or process. These versatile heaters can also be formed and shaped into various geometries for radiant heating and contact surface heating applications.

Applications:

Clean water, freeze protection, hot water storage, boiler and water heaters, cooling towers, steam boilers, mildly corrosive solutions (in rinse tanks, spray washers) , oils, gases, mildly corrosive liquids, stagnant or heavy oils, high temperature, low flow gas heating process water, soap and detergent solutions, soluble cutting oils, demineralized or deionized water, mildly corrosive solutions, severe corrosive solutions, demineralized water, light oil, food equipment, etc..



■ Applications:

Petrochemicals

Main offshore & onshore applications:

- Oil conditioning.
- Crude oil heating / Fuel buffer drum heating.
- Suction line heating for storage tank.
- Fuel oil forwarding for boiler start-up.

Oil Fractioning and Polymerization - Gas Treatment

Hydrotreating/Hydrocracking.

- Natural gas heating to prevent from freezing before pressure reduction. (compression and metering stations).
- Fuel gas conditioning for boiler start-up and gas turbines auxiliaries systems.
- Liquefied Natural Gas heating and vaporizing.
- TEG, MEG Dehydration.
- KO Drum.

Hydrocarbon and H₂/N₂ gas heating.

- Continuous Catalyst Regeneration.
- Isomerization.
- Catalyst reactors temperature control.

Chemicals and Pharmaceuticals

- Process gas.
- CO₂/N₂ Vaporising.
- Air/Gas separation processes.
- H₂, N₂, Water steam heating for Freeze- dryers.
- Boilers, Dryers, Water treatments processes.

Thermal transfert circuit

- Heating and cooling by circulating oil, water or glycol.
- Water through a vessel jacket or a thermal exchanger.
- Deionized/Demineralized water .
- Medical/Pharmaceutical process waterheating.

■ Design:

Thermal:

- With homemade software.

Mechanical:

- Calculation notes according to: PED 9723//EC ASME VIII div.1 and div.2

- Software 3D

Hydraulical

Electrical.

Electronical:

- Hardware.
- Software.

■ Dedicated Projects Teams:

- Advise.
- Sizing.
- Project follow-up.
- Commissioning & Start-up assistance.
- Final documentation
- After sales service.
- Support service.



Resistencias Tope S.A. is a company that offers more the 50 years of experience designing and controlling custom made heating elements

The following are examples of our products aimed to different applications: heaters for different kinds of fluids (corrosive or non-corrosive), heaters for ATEX Ex hazardous environments, large tanks heaters, ambience and comfort heaters, industrial drying heaters, zamack extrusion heaters, plastic processing heaters, etc.

Our technical department will help you developing quickly efficient solutions for your heating system.

Please do not hesitate to contact us if you require any further information.



Resistencias Tope products are developed and manufactured in accordance with European Directives.



Resistencias Tope products are developed and manufactured in accordance with USA Directives.



Quality system is certified in accordance with standard UNE EN ISO 9001:2008.



EC Directive regulating equipment and protective systems intended for use in potentially explosive atmospheres.

ATEX certification approved for all type of gas and dust to suit zone 1, zone 21 and zone 22. (Ex d IIC & Ex t IIIC)



ASME-"U" ASME VIII div.1 and div.-2ASME "U" Stamp.Certification for pressurized vessels manufactured in carbon steel and stainless steel.



PED 23/97/EC.

EC Directive for pressurized vessels manufactured in carbon steel and stainless steel.

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