



eneva

Energy Engineering

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ELECTRICAL BUNDLE HEATERS



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ELECTRICAL BUNDLE HEATERS

- ENEVA electrical circulation heaters are designed for heating circulating fluids to provide effective and controlled heating with water, oil, steam and other special liquids / gases in industrial plants.
- Circulation heaters are composed of all-in-one units with an heater mounted inside an insulated tubular body. They are made of a flanged or a screwplug immersion heater. Design of heating bundles are made taking into consideration heat capacity, pressure drop, permissible surface heat load and fluid thermal properties. Single or multi element heaters are chosen according to process need parameters.
- Elements are manufactured from NiCr resistance wire with high purity compacted magnesium oxide powder sheathed within corrosion / erosion resistant tube.
- Watt surface density (W/cm²) is chosen according to process parameters and fluid specifications taking into consideration max. film temperature.
- Our all heaters are delivered after hydrostatic and related electrical tests.



PRODUCT SPECIFICATION

- Horizontal or vertical type with removable heating bundle
- Completely seamless stainless steel heating element
- Design and manufacturing up to 2 MW thermal capacity and 30 barg pressure
- Optimized fluid film temperature and pressure loss
- EN 12953 - 2014/68 EU PED CE certification (up to request)
- Good thermal insulation with rock wool + cladding
- User friendly design with easy maintenance, cleaning and bundle renewing
- Heaters are individually replaceable on site without the need for special tools
- Hi power staging ratio thanks to bara connection optimization

DELIVERY OPTIONS

- Armature and instruments according to EN 12953 norm
- Built-in high limit controls and thermostats
- PLC control panel and cabling
- Number of spacer and flow baffles up to need of process
- Not heated zone available for customized design
- Terminal box with SS material or painted CS available
- ATEX upon request

COMMON APPLICATION AREAS

- Crude oil / hydrocarbon liquids
- Heat transfer oils
- Industrial gases
- Tank heating
- Natural gas
- Heating medium
- Fuel gas
- Water
- Fuel oils
- Hygienic applications