

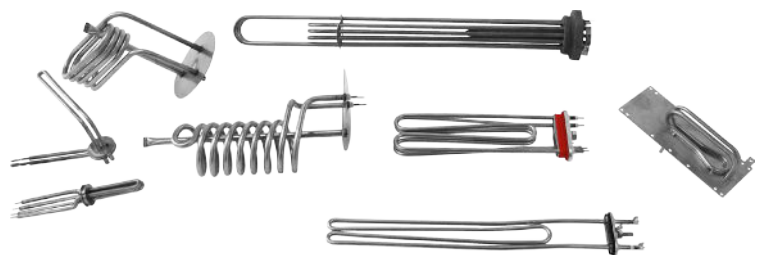
# TUBULAR HEATING ELEMENTS FOR LIQUIDS

Tubular heating elements provide a well-ried and safe technical solution for heating liquids. The many variants of Backer tubular heating elements provide the most popular alternative for liquid heating. We supply the best solution for each application, dependant on the medium to be heated, power and assembly.

BACKER



Type of heating	Direct - heating element inserted in liquid Indirect - heating element separated from liquid	Connection	Direct connection for installation in equipment M4, M6, flat pin, spot welded cable, Ø 2.5 mm pin Terminal box with/without temperature regulating device
Material	Mild steel - Grade D Stainless steel - AISI 304/EN 1.4301, AISI 316L/EN 1.4404, UNS S31254, UNS N08904, Incoloy 800, Incoloy 825, Ferritic stainless steel material - 1.4510, 1.4512, 1.4521 Copper - C12200	Types	One, two alt. three wattage ratings/element Connection at one or two ends According to customer specification Standard range Can be manufactured with UL, VDE approval
Dimension	Ø 6.4 8.5 14 16 18 21 mm Other dimensions available upon request	Thermal control/quality	Integrated thermostat/temperature control Thermostat/temperature control in a protective tube
Fields of application	Electrical water heaters Boilers Boiling pans Dishwashers and washing machines Solar heating Heating pump Desinfectors		
Assembly	Inserted heating element with flange Inserted heating element with screw plug Heating element with nipple Immersion heater Casted element for contract assembly		



Example of product design