

A method for processing liquid media involves the delivery of a portion of flow of liquid medium to the induction heater, heating this medium at the action of alternating sign electromagnetic field of induction coil with simultaneous applying mechanical vibrations with the frequency corresponding to the frequency of electromagnetic field oscillations of induction coil. The induction heater for processing liquid media contains closed magnetic conductor, at least single-section induction coil, tank, at least one short-circuited electric conductive heating element, at least one facility for the delivery of fresh and withdrawing used liquid medium. The magnetic conductor includes at least two rods and two connecting yokes. The induction coil encompasses selected rod of magnetic conductor and is equipped with facility for connection to the source of alternative current. The tank has at least one inner wall encompassing the selected rod of magnetic conductor, at least one external wall disposed with a gap relative to inner wall. The short-circuited electroconductive heating element is disposed inside the tank with a possibility of mechanical vibration under the action of alternative-sign electromagnetic field of induction coil.