

Title (en)
Heating device

Title (de)
Heizvorrichtung

Title (fr)
Dispositif de chauffe

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Abstract (en)
[origin: WO2009052994A2] The invention relates to a heating device having a heating arrangement in a housing through which in a longitudinal direction a fluid medium can flow, wherein the at least one heating arrangement comprises at least two lattice elements as heat exchanger plates with openings, through which the medium flows. The lattice planes thereof are designed for the exchange of thermal energy between the plate and the fluid medium. The invention further comprises at least one heating element, particularly a PTC- element, which is arranged between the lattice elements. The at least one heating arrangement is arranged in the housing such that the lattice planes of the lattice elements are disposed substantially perpendicular to the longitudinal direction and the media flow is substantially perpendicular to the lattice planes. The lattice elements and the at least one heating element are arranged such that they are tensioned with respect to one another by means of at least one tensioning element for the contact with one another, and the lattice elements comprise at least one contact region and are arranged such that they absorb the thermal energy from the at least one heating element substantially via the contact region. The heating device can be produced with low costs and simplified production, wherein environmental aspects are considered even during the operation of the heating device.

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