

Title (en)  
HEATING DEVICE

Title (de)  
HEIZGERÄT

Title (fr)  
APPAREIL DE CHAUFFAGE

Publication  
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Application  
**EP 09721574 A 20090312**

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Abstract (en)  
[origin: WO2009115447A2] The invention relates to a heating device, in particular a condensing heating device, comprising a gas or oil burner in a cylindrical combustion chamber (1) that is radially bounded by a heat exchanger, at least one gap (2) for the penetration of heating gases through the heat exchanger into an exhaust gas collection chamber (5) disposed radially outside the heat exchanger and comprising a surrounding jacket with a connection nozzle for an exhaust gas line, a front cover element (3) for holding the burner, a rear cover element (4) as a closure for the combustion chamber (1) and feed and return connection nozzles. The object of the invention is to optimize the heat exchanger of a heating device, in particular a condensing heat exchanger, especially in regard to dimensions that are as compact as possible and in regard to heat transfer properties. The invention is characterized in that the heat exchanger comprises a plurality of annularly arranged heat transfer tubes (6) disposed in parallel with the longitudinal axis of the combustion chamber (1), said tubes forming axial gaps (2) between two respective adjacent heat transfer tubes (6) for penetration of heating gases in the radial direction.

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