

Title (en)
STACKED PLATE HEAT EXCHANGER

Title (de)
STAPELSCHEIBEN-WÄRMETAUSCHER

Title (fr)
ÉCHANGEUR DE CHALEUR À PLAQUES EMPILÉES

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Application
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Abstract (en)
[origin: WO2011138349A2] The invention relates to a stacked plate heat exchanger having a plurality of elongate plates (1, 6) which are stacked one on top of the other and connected to one another, which plates have a cavity through which a medium to be cooled is conducted in the longitudinal direction of the plates (1, 6), and which plates delimit a further cavity through which a coolant is conducted, wherein a through hole (3, 8) for the supply of the medium to be cooled is arranged approximately in the two end regions of each elongate plate (1, 6), said through hole being at least partially surrounded, at the boundary thereof, by a dome (4, 10). To obtain maximum power-to-volume ratio of the heat transfer while maintaining a simple plate geometry, the through hole (3, 8) is arranged approximately at the edge of the elongate disk (1, 6), wherein the dome (4, 10) and/or the through hole (3, 8) is integrated into the edge of the elongate plate (1, 6).

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