

Title (en)

MICRO-CHANNEL STRUCTURE FOR HEAT EXCHANGER, AND INTEGRATED TYPE MICRO-CHANNEL HEAT EXCHANGER

Title (de)

MIKROKANALSTRUKTUR FÜR WÄRMETAUSCHER UND INTEGRIERTER MIKROKANALWÄRMETAUSCHER

Title (fr)

STRUCTURE DE MICRO-CANAL POUR ÉCHANGEUR DE CHALEUR ET ÉCHANGEUR DE CHALEUR À MICRO-CANAL DU TYPE INTÉGRÉ

Publication

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Application

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Abstract (en)

[origin: EP2878910A1] The present invention discloses a micro-channel structure for a heat exchanger, and an integrated type micro-channel heat exchanger. The micro-channel structure is formed between multiple layers of heat exchange plates (1) arranged in a stacked manner, with a plurality of fin units (2) formed on the heat exchange plate (1), the fin units (2) are arranged uniformly into a plurality of fin unit groups (9) in the direction perpendicular to a flow direction of fluid, and the fin unit groups (9) are arranged in a staggered manner and spaced from one another by a distance in the flow direction of the fluid; a rear end of the fin unit (2) at the upstream side is arranged in an intermediate position between two adjacent fin units (2) at the downstream side; the fin unit (2) comprises at least two fins (21), with the adjacent fins (21) spaced from each other by a distance; and the fluid channels between the adjacent fin units (2) and between the adjacent fins (21) form the micro-channel structure. The integrated type micro-channel heat exchanger comprises multiple layers of heat exchange plates (1) arranged in a stacked manner, with the aforementioned micro-channel structure formed between the heat exchange plates (1).

IPC 8 full level

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