

Title (en)

HEAT EXCHANGER ASSEMBLY AND USE THEREOF

Title (de)

WÄRMETAUSCHERANORDNUNG UND VERWENDUNG DAVON

Title (fr)

ENSEMBLE ÉCHANGEUR DE CHALEUR ET UTILISATION DE CELUI-CI

Publication

EP 2930453 A1 20151014 (EN)

Application

EP 15162347 A 20150402

Priority

CN 201410138233 A 20140408

Abstract (en)

A heat exchanger assembly and use thereof, the heat exchanger assembly includes a micro-channel evaporator and a micro-channel condenser. The micro-channel evaporator includes a first header, a second header, a plurality of first circulating tubes each being configured to connect the first header with the second header, and first fins in contact with the first circulating tubes. The first circulating tubes are each provided with a plurality of first micro-channel cavities each being configured to allow refrigerant to flow. The micro-channel condenser includes a third header, a fourth header, a plurality of second circulating tubes each being configured to connect the third header with the fourth header, and second fins in contact with the second circulating tubes. The second circulating tubes are each provided with a plurality of second micro-channel cavities each being configured to allow the refrigerant to flow. The first circulating tubes are arranged up-to-down, and the condensate water may flow downward under the action of the gravity to facilitate discharging water. The second circulating tubes are arranged transversely, thereby uniformly distributing the refrigerant.

IPC 8 full level

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CPC (source: CN EP US)

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Citation (search report)

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- [A] WO 2004020232 A1 20040311 - BEHR GMBH & CO [DE], et al
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