

Title (en)
HEAT EXCHANGER

Title (de)
WÄRMETAUSCHER

Title (fr)
ECHANGEUR DE CHALEUR

Publication
EP 2196758 A1 20100616 (EN)

Application
EP 08792643 A 20080822

Priority
• JP 2008064972 W 20080822
• JP 2007261103 A 20071004

Abstract (en)
In a parallel-flow-type heat exchanger, the shape of corrugated fins is improved such that heat exchange performance is enhanced and that it is possible to perform smooth draining of defrost water and condensed water. The heat exchanger (1) includes a plurality of horizontal header pipes (2) and (3) arranged parallel at an interval from one another in the vertical direction, a plurality of vertical flat tubes (4) arranged at an interval from one another in the horizontal direction between the header pipes (2) and (3), with refrigerant passage (5) inside the flat tubes (4) communicate with the insides of the header pipes (2) and (3) respectively, and corrugated fins (6) arranges between the flat tubes (4). The corrugated fins (6) include upwind-side corrugated fins (6U) whose fin surface has a downward slope toward the downwind side and downwind-side corrugated fins (6D) whose fin surface has an upward slope toward the downwind side, the former and the latter being arranged with a gap (9) secured therebetween. The gap (9) is so sized as to enable water droplets sticking to the downwind-side ends of the upwind-side corrugated fins (6U) and water droplets sticking to the upwind-side ends the downwind-side corrugated fins (6D) to coalesce.

IPC 8 full level
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CPC (source: EP)
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Designated extension state (EPC)
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