

Title (en)  
HEAT EXCHANGER WITH GUIDING PLATES FOR CONDENSED WATER

Title (de)  
WÄRMETAUSCHER MIT LEITBLECHEN FÜR KONDENSWASSER

Title (fr)  
ÉCHANGEUR DE CHALEUR À PLAQUES DE GUIDAGE POUR L'EAU CONDENSÉE

Publication  
**EP 3546878 B1 20201118 (EN)**

Application  
**EP 18163856 A 20180326**

Priority  
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Abstract (en)  
[origin: EP3546878A1] The invention relates to a heat exchanger (1), comprising a plurality of flat tubes (2) arranged in a first row in a main extension plane of the heat exchanger (1), the flat tubes (2) having a respective main extension plane and being configured to conduct a heat transfer medium, a plurality of plate fins (3) arranged in a second row in the main extension plane of the heat exchanger (1), where the second row extends in a direction transverse to the direction of the first row, and a plurality of guiding structures (4) for guiding condensed water (8) off the tubes (2), where each guiding structure (4) extends between two plate fins (3) along a corresponding tube (2), wherein each guiding structure (4) comprises at least a first guiding plate (5) with a first main extension plane and a second guiding plate (6) with a second main extension plane, where the first main extension plane is tilted with respect to the main extension plane of the flat tube (2) around a longitudinal axis of the flat tube (2) by a first tilt angle  $\alpha_1$ , and the second main extension plane is tilted with respect to the main extension plane of the flat tube (2) around the longitudinal axis of the flat tube (2) by a second tilt angle  $\alpha_2$ , with  $0 \text{ degrees} < \alpha_1 < \alpha_2 < 90 \text{ degrees}$ , in order to provide a heat exchanger (1) with improved performance, in particular less problems with condensed water (8).

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