

Title (en)
CONDENSER

Title (de)
KONDENSATOR

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CONDENSEUR

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Abstract (en)
[origin: WO2014044520A1] The invention relates to a condenser (1, 60, 70) in stacked-plate design. The condenser comprises a first flow channel (25, 64, 73, 79) for a refrigerant and a second flow channel (26, 31, 42, 52, 67) for a coolant. A plurality of plate elements is provided, which form channels adjacent to each other between the plate elements when the plate elements are stacked on top of each other. A first subset of the channels is associated with the first flow channel (25, 64, 73, 79) and a second subset of the channels is associated with the second flow channel (26, 31, 42, 52, 67). The first flow channel (25, 64, 73, 79) has a first region (3, 80) for desuperheating and condensing the vaporous refrigerant and a second region (4, 81, 62) for subcooling the condensed refrigerant. The condenser also comprises a receiver (2) for storing a refrigerant. A refrigerant transfer from the first region (3, 80) to the second region (4, 81, 62) leads through the receiver (2). The condenser is characterized in that the receiver (2) is in fluid communication with the first region (3, 80) by means of a first connection element, which forms the fluid inlet (12) of the receiver (2), a second connection element being in fluid communication with the second region (4, 81, 62) as a fluid outlet (6) of the receiver (2).

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