

Title (en)  
REFRIGERANT CONDENSER ASSEMBLY

Title (de)  
KÄLTEMITTELKONDENSATORBAUGRUPPE

Title (fr)  
MODULE DE CONDENSATEUR DE FLUIDE RÉFRIGÉRANT

Publication  
**EP 2697588 A2 20140219 (DE)**

Application  
**EP 12715677 A 20120412**

Priority  
• DE 102011007216 A 20110412  
• EP 2012056641 W 20120412

Abstract (en)  
[origin: WO2012140116A2] In a refrigerant condenser assembly (1) for a motor vehicle air-conditioning system, comprising cooling tubes for conducting a refrigerant, the cooling tubes are arranged in flow regions (11) with at least one cooling tube, preferably at least two cooling tubes of a flow region (11) are connected in parallel in a fluid-conducting fashion, and the flow regions (11) are connected in series in a fluid-conducting fashion, two collecting tubes (5) for the fluidic connection of the cooling tubes (2) to an inlet portion (13) as a collecting tube portion (12) for introducing the coolant into a flow region (11), an outlet portion (14) as a collecting tube portion (12) for conducting the coolant out of a flow region (11), and at least one diverting portion (15) as a collecting tube portion (12) for diverting the refrigerant from one flow region (11) into another flow region (11), preferably a collecting tank having at least one overflow opening by means of which the collecting tank is fluidically connected to the cooling tubes and/or the collecting tube, it is the intention for the collecting tubes (5) of the refrigerant condenser assembly to require a small volume of refrigerant in order to reduce the costs for the refrigerant. Said object is achieved in that the flow cross-sectional area of at least one collecting tube portion (12) which follows in the flow direction of the refrigerant is smaller than the flow cross-sectional area of at least one collecting tube portion (12) which precedes the following collecting tube portion (12) in the flow direction of the refrigerant.

IPC 8 full level  
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Citation (search report)  
See references of WO 2012140116A2

Citation (examination)  
DE 4238853 A1 19940519 - BEHR GMBH & CO [DE]

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