

Title (en)  
HEAT PUMP DEVICE

Title (de)  
WÄRMEPUMPENVORRICHTUNG

Title (fr)  
DISPOSITIF DE POMPE À CHALEUR

Publication  
**EP 3009767 B1 20201209 (EN)**

Application  
**EP 13886812 A 20130613**

Priority  
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Abstract (en)  
[origin: EP3009767A1] The present invention has an object to improve a COP of a heat pump device including a compressor having a first discharge passage and a second discharge passage, a mass flow rate of refrigerator oil discharged together with refrigerant from the first discharge passage being higher than a mass flow rate of the refrigerator oil discharged together with the refrigerant from the second discharge passage. The heat pump device according to the present invention includes: the compressor in which the mass flow rate of the refrigerator oil discharged from the first discharge passage is higher than the mass flow rate of the refrigerator oil discharged from the second discharge passage; a first heat exchanger including a first refrigerant heat transfer channel through which the refrigerant and the refrigerator oil discharged from the first discharge passage pass, and a first liquid heat transfer channel through which a liquid passes; and a second heat exchanger including a second refrigerant heat transfer channel through which the refrigerant and the refrigerator oil discharged from the second discharge passage pass, and a second liquid heat transfer channel through which the liquid passes, a total sectional area of the first refrigerant heat transfer channel being larger than a total sectional area of the second refrigerant heat transfer channel.

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Cited by  
EP3581868A1; EP3370026A4; EP3671049A1

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