

Title (en)

Heat pump system with integrated economizer

Title (de)

Wärmepumpensystem mit integriertem Economiser

Title (fr)

Système de pompe à chaleur avec économiseur intégré

Publication

EP 2952832 A1 20151209 (EN)

Application

EP 14171467 A 20140606

Priority

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Abstract (en)

The present invention discloses a heat pump system including a compressor for compressing a refrigerant, a condenser downstream of the compressor for cooling the refrigerant, an expansion device downstream of the condenser for lowering the pressure of the refrigerant, an evaporator downstream of the expansion device for vaporizing the refrigerant, and an economizer for allowing an economizer flow and a refrigerant flow to pass therethrough and contact with each other in a heat transfer relationship. The economizer is integrated with one of the condenser and the evaporator to form an integral heat exchanger. In this way, conduits or piping between existing economizers and condensers/evaporators can be omitted, which results in a reduction cost in components and an increase of space for layout of other components.

IPC 8 full level

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Citation (search report)

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