

Title (en)

HEAT PUMP SYSTEM AND METHOD OF OPERATING

Title (de)

WÄRMEPUMPENSYSTEM UND BETRIEBSVERFAHREN

Title (fr)

SYSTÈME DE POMPE À CHALEUR ET PROCÉDÉ DE FONCTIONNEMENT

Publication

EP 2347196 A1 20110727 (EN)

Application

EP 08878058 A 20081111

Priority

CN 2008001866 W 20081111

Abstract (en)

[origin: WO2010054498A1] A heat pump system operable in a cooling mode, a heating mode and a defrost mode includes a refrigerant compressor (20), a reversing valve (30), a first heat exchanger (40) and a second heat exchanger (50) disposed in a refrigerant circuit, and a primary expansion valve (45) disposed in the refrigerant circuit between said first heat exchanger (40) and said second heat exchanger (50); said reversing valve (30) is positionable in a first position for operation of said heat pump system in the cooling mode or defrost mode and is positionable in a second position for operation of said heat pump system in the heating mode; a refrigerant bypass circuit establishes a refrigerant flow path from the refrigerant circuit at a first location upstream of said primary expansion valve (45) and downstream of said first heat exchanger (40) with respect to refrigerant flow in the defrost mode to a liquid reservoir (70) disposed in the refrigerant circuit at a second location downstream of said primary expansion valve (45) with respect to refrigerant flow in the defrost mode.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2010054498A1

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