

Title (en)

REFRIGERANT FLUID DEVICE FOR INCREASING THERMODYNAMIC PERFORMANCE

Title (de)

KÜHLFLÜSSIGKEITSVORRICHTUNG ZUR ERHÖHUNG DER THERMODYNAMISCHEN LEISTUNG

Title (fr)

DISPOSITIF À FLUIDE FRIGORIGÈNE POUR L'AUGMENTATION DU RENDEMENT THERMODYNAMIQUE

Publication

EP 3071902 A1 20160928 (FR)

Application

EP 14824056 A 20141121

Priority

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Abstract (en)

[origin: WO2015075393A1] A heat pump comprising a closed circuit containing a refrigerant fluid and a lubricant, the closed circuit comprising a fluid compressor (1) and a fluid return circuit for returning fluid to the compressor, the compressor extending in the closed circuit between a fluid inlet and a fluid outlet, the return circuit extending in the closed circuit, in addition to the compressor, between the fluid outlet and the fluid inlet, the return circuit comprising a condenser (2), an expander (3) and an evaporator (4), said return circuit comprising a first pipe extending between the fluid outlet and the condenser, a second pipe extending between the condenser and the expander, a third pipe extending between the expander and the evaporator, and a fourth pipe extending between the evaporator and the fluid inlet, said closed circuit comprising a first bulge (5) in a pipe of the return circuit containing tubes (50), the fluid comprising a mixture of a first freon R32 (difluoromethane), a second freon R125 (pentafluoroethane) and a third freon R134a (1,1,1,2-tetrafluoroethane), and the lubricant comprising a synthetic polyol ester oil.

IPC 8 full level

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