

Title (en)

Hot water system

Title (de)

Heißwassersystem

Title (fr)

Système de fourniture d'eau chaude

Publication

**EP 1972871 B1 20160928 (EN)**

Application

**EP 07254438 A 20071113**

Priority

JP 2007070995 A 20070319

Abstract (en)

[origin: EP1972871A2] A hot water system includes: a compressor (1) with variable operation capacity; a four-way valve (2) for switching the direction of the refrigerating cycle; a plate heat exchanger (10) for exchanging heat between water and a refrigerant; an electronic expansion valve (6) for controlling the flow rate of the refrigerant to reduce the pressure; and a heat exchanger (9) for exchanging heat between air and the refrigerant, which are connected in that order by a pipeline (3) to form a refrigerating cycle for circulating the refrigerant, thereby heating water. The hot water system further includes; pressure detection means (Pd) disposed between the outlet of the compressor (1) and the two-way valve (2), for detecting the pressure of the refrigerant discharged from the compressor (1), wherein the speed of operation of the compressor (1) is controlled according to the difference between the condensing temperature calculated from the pressure detected by the pressure detection means (Pd) and a target condensing temperature.

IPC 8 full level

**F25B 49/02** (2006.01); **F25B 13/00** (2006.01)

CPC (source: EP US)

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Cited by

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