

Title (en)

Refrigeration cycle apparatus and hydronic heater including the refrigeration cycle apparatus

Title (de)

Kältekreislaufvorrichtung und hydronisches Heizgerät mit Kältekreislaufvorrichtung

Title (fr)

Appareil de cycle de réfrigération et dispositif de chauffage hydronique utilisant l'appareil de cycle de réfrigération

Publication

EP 2508821 A2 20121010 (EN)

Application

EP 12163185 A 20120404

Priority

JP 2011085142 A 20110407

Abstract (en)

The present invention provides a refrigeration cycle apparatus 1A. When a temperature detected by the first temperature sensor 61 is higher than a temperature detected by the first saturation temperature detecting means 51, a control device 4 operates bypass expansion means 31 such that the temperature detected by the first temperature sensor 61 comes close to the temperature detected by the first saturation temperature detecting means 51. If the temperature detected by the first temperature sensor 61 is substantially equal to the temperature detected by the first saturation temperature detecting means 51, the control device 4 operates the bypass expansion means 31 such that a temperature detected by the second temperature sensor 6 becomes lower than a temperature detected by the second saturation temperature detecting means 52 by a predetermined temperature. Therefore, it is possible to enhance the heating ability and efficiency of the refrigeration cycle apparatus 1A.

IPC 8 full level

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CPC (source: EP)

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Citation (applicant)

JP H1068553 A 19980310 - DAIKIN IND LTD

Cited by

US2016053943A1; EP3211350A1; US2018094840A1; US10502468B2

Designated contracting state (EPC)

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Designated extension state (EPC)

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EP 2508821 A2 20121010; **EP 2508821 A3 20150211**; **EP 2508821 B1 20160224**; CN 102734969 A 20121017; CN 102734969 B 20160309; JP 2012220072 A 20121112; JP 5637053 B2 20141210

DOCDB simple family (application)

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