Title (en)

Refrigeration cycle apparatus and hydronic heater having 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

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Application

EP 12171898 A 20120614

Priority

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Abstract (en)

A refrigeration cycle apparatus of the present invention includes a first temperature sensor (61), a pressure sensor (51), a second temperature sensor (62), and a control device (4). The control device (4) controls operation of a bypass expansion valve (31) such that a temperature at an outlet of the bypass passage (3) becomes equal to a saturation temperature in a section until a number of rotation of the compressor (21) reaches a predetermined compressor target number of rotations after the compressor (21) is actuated. When the temperature at the outlet of the bypass passage (3) reaches the saturation temperature, the control device (4) increases the number of rotation of the compressor (21) to a number of rotations of a next stage, and the control device (4) controls the refrigeration cycle into an appropriate refrigeration cycle state.

IPC 8 full level

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CPC (source: EP)

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Cited by

ITVI20130257A1; CN112739961A; EP4382832A1; EP2792973A1; EP3211350A1; US9618237B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

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