

Title (en)

REFRIGERATION CYCLE DEVICE AND LIQUID HEATING DEVICE HAVING THE SAME

Title (de)

KÄLTEKREISLAUFVORRICHTUNG UND FLÜSSIGKEITSHEIZVORRICHTUNG DAMIT

Title (fr)

DISPOSITIF À CYCLE DE RÉFRIGÉRATION ET DISPOSITIF DE CHAUFFAGE DE LIQUIDE LE COMPRENANT

Publication

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Application

EP 20156001 A 20200207

Priority

JP 2019089181 A 20190509

Abstract (en)

The present invention provides a refrigeration cycle device and a liquid heating device having the same including a heating operation mode for heating usage-side heat medium in a usage-side heat exchanger 22 by refrigerant discharged from a compression mechanism 21, and a defrosting operation mode for removing frost of a heat source-side heat exchanger 24 by the refrigerant discharged from the compression mechanism 21. In the heating operation mode which is executed after the defrosting operation mode is completed, at least for a predetermined period during execution of the heating operation mode, the control device 4 sets opening degrees of a first expansion device 23 and the second expansion device 31 to such values that a flow rate of refrigerant flowing through the first expansion device 23 becomes greater than a flow rate of refrigerant flowing through the second expansion device 31, and a blowing device 29 which supplies air to the heat source-side heat exchanger 24 is operated. According to this, even when the heating operation is executed in the usage-side heat exchanger after the defrosting operation of the heat source-side heat exchanger is completed, it is possible to suppress deterioration of heating ability in the usage-side heat exchanger.

IPC 8 full level

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Citation (applicant)

JP 2009133581 A 20090618 - DAIKIN IND LTD

Citation (search report)

- [I] US 2016273816 A1 20160922 - HORIUCHI NAOTO [JP]
- [A] EP 2230474 A1 20100922 - DAIKIN IND LTD [JP]
- [A] WO 2018097154 A1 20180531 - DAIKIN IND LTD [JP]

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