

Title (en)

VAPOR COMPRESSION REFRIGERATION CYCLE DEVICE

Title (de)

DAMPFKOMPRESSIONSKÜHLZYKLUSVORRICHTUNG

Title (fr)

DISPOSITIF À CYCLE DE RÉFRIGÉRATION À COMPRESSION DE VAPEUR

Publication

EP 4379288 A1 20240605 (EN)

Application

EP 23212226 A 20231127

Priority

JP 2022190325 A 20221129

Abstract (en)

[Object] It is an object of the present invention to provide a vapor compression refrigeration cycle device wherein when a melting amount of refrigerant into lubricant oil of a compressor is increased, discharge temperature can be increased within a short time after operation of the compressor is started, and a melting amount of refrigerant into oil can be reduced.[Solving Means] The vapor compression refrigeration cycle device of the invention includes a main refrigerant circuit 10, a bypass refrigerant circuit 20 and a control device 50. the control device 50 includes a compressor actuation mode, and in the compressor actuation mode, the control device 50 controls the first expansion device 14 and the second expansion device 21 such that refrigerant flows through both the main refrigerant circuit 10 and the bypass refrigerant circuit 20 for a predetermined period after operation of a compressor 11 is started.

IPC 8 full level

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Citation (applicant)

JP H07190509 A 19950728 - MATSUSHITA ELECTRIC IND CO LTD

Citation (search report)

- [X] EP 2075517 A1 20090701 - LG ELECTRONICS INC [KR]
- [X] EP 2290304 A1 20110302 - MITSUBISHI ELECTRIC CORP [JP]
- [X] US 2016097568 A1 20160407 - KORENAGA KAZUNORI [JP]

Designated contracting state (EPC)

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DOCDB simple family (publication)

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