

Title (en)
AIR-CONDITIONING DEVICE

Title (de)
KLIMATISIERUNGSVORRICHTUNG

Title (fr)
DISPOSITIF DE CLIMATISATION

Publication
EP 3279580 B1 20220907 (EN)

Application
EP 15887665 A 20150403

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JP 2015060601 W 20150403

Abstract (en)
[origin: EP3279580A1] The present invention includes a controller 30 that performs a pump-down operation in which, when a leakage of refrigerant is detected, a flow switching device 11 is switched to a direction of a cooling operation so that refrigerant in a refrigerant main pipe 3 is recovered into a heat-side heat exchanger 12 and an accumulator 14, and in which a refrigerant shutoff device 13, a bypass opening-closing device 15 and operation of a compressor 10 are controlled, and then performs a refrigerant leakage amount reduction operation in which the flow switching device 11 is switched to a direction of a heating operation so that the recovered refrigerant is enclosed in the heat-side heat exchanger 12 and the accumulator 14, and in which the refrigerant shutoff device 13, the bypass opening-closing device 15 and operation of the compressor 10 are controlled.

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Cited by
EP3872423A1; US11473821B2; US11441820B2; US11971183B2; US11143439B2; US11231199B2

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