

Title (en)
REFRIGERATION DEVICE

Title (de)
KÜHLVORRICHTUNG

Title (fr)
DISPOSITIF FRIGORIFIQUE

Publication
EP 2806233 A1 20141126 (EN)

Application
EP 12862685 A 20121226

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Abstract (en)
The purpose of the present invention is to carry out superheat control in appropriate fashion, in a refrigeration apparatus that is susceptible to the refrigerant reaching a supercooled state short of the evaporator. During cooling, an indoor expansion valve (41) of the refrigeration apparatus (10) controls expansion of cooling inflowing to an indoor heat exchanger (42), doing so on the basis of a low-pressure target value, and a superheat target value for the outflow side of the indoor heat exchanger (42). A supercooled state of the refrigerant at the inflow side of the indoor heat exchanger (42) is detected by an indoor liquid line temperature sensor (44) and an intake pressure sensor (33). An indoor control apparatus (47), in the case of having determined, on the basis of detection results from the indoor liquid line temperature sensor (44) and the intake pressure sensor (33), that the refrigerant at the inflow side of the indoor heat exchanger (42) is in a supercooled state, makes a settings change to raise the superheat target value from a first superheat target value Tsh1 to a second superheat target value Tsh2.

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