

Title (en)

REFRIGERATION DEVICE HAVING PARALLEL VAPORISERS AND OPERATING METHOD THEREFOR

Title (de)

KÄLTEGERÄT MIT PARALLELEN VERDAMPFERN UND BETRIEBSVERFAHREN DAFÜR

Title (fr)

APPAREIL FRIGORIFIQUE AVEC DES ÉVAPORATEURS PARALLÈLES ET PROCÉDÉ DE FONCTIONNEMENT ASSOCIÉ

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2020157010A1] The invention relates to a refrigeration device having at least one warm storage compartment and one cold storage compartment (1, 2) and a refrigerator, in which at least two vaporisers (8, 10) that are parallel to one another are connected in series with a compressor (4), a condenser (5), and a shut-off valve (15) arranged between the condenser and the vaporisers to form a refrigerant circuit in order for each vaporiser (8, 10) to cool one of the storage compartments (1, 2). An operating method for this refrigeration device comprises the steps a) deciding whether a need for cooling has newly occurred in the warm storage compartment (1), and, if yes, b) operating the compressor (4) while the shut-off valve (15) is closed in order to cause refrigerant to back up in the condenser (5), c) opening the shut-off valve (15) and supplying the vaporiser (8) of the warm storage compartment (1) with the backed up refrigerant, characterised in that in step b) the mass flow rate through the compressor (4) is estimated and the time for carrying out the step c) is determined by means of the estimated mass flow rate.

IPC 8 full level

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