

Title (en)
SINGLE-CIRCUIT REFRIGERATOR AND OPERATING METHOD THEREFOR

Title (de)
EINKREIS-KÄLTEGERÄT UND BETRIEBSVERFAHREN DAFÜR

Title (fr)
APPAREIL FRIGORIFIQUE À UN SEUL CIRCUIT ET PROCEDE DE FONCTIONNEMENT CORRESPONDANT

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Abstract (en)
[origin: WO2013160111A1] The invention concerns a refrigerator, in particular a domestic refrigerator, comprising a compressor (7), an upstream and a downstream evaporator (5, 6), which are connected in series to the compressor (7), a first storage compartment (2), which is cooled by means of the upstream evaporator (5), and a second storage compartment (3), which is cooled by the downstream evaporator (6). According to the invention, a control unit (11) is arranged, in a normal cooling mode (S1 - S5), to control the operation of the compressor (7) by comparing the temperature (Tnk) measured by a temperature sensor (13) in one of the storage compartments (3) with a first set value, and can be switched by a user from the normal cooling mode into an intensive cooling mode, which comprises at least one phase of long compressor-operating times ([t1, t2]; S6-S11), in which the control unit (11) controls the operation of the compressor (7) by comparing the measured temperature (Tnk) with a second set value which is lower than the first set value, and a phase of short compressor-operating times ([t2, t3]; S12-S17) in which the amount of coolant circulated by the compressor (7) between switching on and subsequent switching off is less than the capacity of the two compressors (5, 6) for liquid coolant.

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