

Title (en)

A refrigeration device and method of operation

Title (de)

Kühlvorrichtung und Betriebsverfahren

Title (fr)

Dispositif de réfrigération et procédé de fonctionnement

Publication

**EP 2829812 A2 20150128 (EN)**

Application

**EP 14176873 A 20140714**

Priority

TR 201309039 A 20130725

Abstract (en)

A refrigeration device (S) according to the present invention comprises one body (G) including one compartment; one compressor (K); one condenser (C); equipment allowing the transfer of the refrigerant leaving the condenser (C) to the units; one chamber (H) wherein the compressor (K) and condenser (C) are located; one air blowing unit (F) allowing air circulation through the compressor (K) and condenser (C); measurement member (M) which measures the humidity of the outside environment and one control unit (U) associated with this measurement member (M), and the method of operation comprises the steps of: measuring the humidity of the outside environment and transferring it to the control unit (U); calculating humidity values of the outside environment at which dew formation may occur, and calculating the operation status and periods of the air blowing unit (F) by evaluation of the measured data and the temperature and humidity values of the compartment; comparing the calculated value with the measured value; if the measured value is higher than the calculated value, stopping the air blowing unit (F), at the beginning of the refrigeration cycle, for a period of time calculated; at the end of this time period, operating the air blowing unit (F) at the highest speed (F1) for a second period of time; performing such processes of stopping - operating at the highest speed (F1) of the air blowing unit (F), during the refrigeration cycle, at certain intervals; when the refrigeration cycle is stopped, operating the air blowing unit (F) at the highest speed (F1).

IPC 8 full level

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Citation (applicant)

US 2007039339 A1 20070222 - LEE JUNG-HUN [KR]

Cited by

US2016320119A1; CN111623564A; US11357136B2; US10724783B2; WO2016174149A1

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