

Title (en)

TEMPERATURE CONTROL SYSTEM AND METHOD FOR OPERATING A TEMPERATURE CONTROL SYSTEM

Title (de)

TEMPERIERANLAGE UND VERFAHREN ZUM BETREIBEN EINER TEMPERIERANLAGE

Title (fr)

INSTALLATION DE THERMORÉGULATION ET PROCÉDÉ POUR FAIRE FONCTIONNER UNE INSTALLATION DE THERMORÉGULATION

Publication

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Application

**EP 21810301 A 20211108**

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Abstract (en)

[origin: WO2022101139A2] The invention relates to a temperature control system, comprising: a medium to be temperature-controlled, with which at least one heat exchanger for absorbing heat from the medium interacts; a refrigerant circuit which supplies refrigerant to the at least one heat exchanger for expansion; for this purpose, at least one compressor stage which compresses refrigerant expanded in the heat exchanger; a heat exchanger which dissipates heat from the compressed refrigerant; and a control valve for controlling the mass flow of the compressed refrigerant to the at least one heat exchanger for absorbing heat; wherein a first heat exchanger is designed such that, in said heat exchanger, the refrigerant enters a refrigerant distributor following a feed line and, proceeding from this, enters at least one heat exchanger channel through at least one nozzle element which limits the mass flow, and expands in said heat exchanger.

IPC 8 full level

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See references of WO 2022101139A2

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