

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

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Application
EP 21810301 A 20211108

Priority

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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.

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