

Title (en)

A METHOD FOR CONTROLLING A VAPOUR COMPRESSION SYSTEM AT LOW SUPERHEAT

Title (de)

VERFAHREN ZUR STEUERUNG EINES DAMPFKOMPRESSIONSSYSTEMS BEI NIEDRIGER ÜBERHITZUNG

Title (fr)

PROCÉDÉ POUR COMMANDER UN SYSTÈME DE COMPRESSION DE VAPEUR À FAIBLE DE SURCHAUFFE

Publication

**EP 4253873 A1 20231004 (EN)**

Application

**EP 22164723 A 20220328**

Priority

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Abstract (en)

A method for controlling a vapour compression system (1) is disclosed, the vapour compression system (1) comprising a compressor unit (2), a heat rejecting heat exchanger (3), an expansion device (4) and an evaporator (5) arranged in a refrigerant path. A superheat value of refrigerant leaving the evaporator (5) is derived, and a quantity being representative for a variance of the derived superheat value is calculated. A reference superheat value is calculated, based on the calculated quantity and on a minimum acceptable superheat value. The expansion device (4) is operated in accordance with the calculated reference superheat value, and in order to obtain a superheat of refrigerant leaving the evaporator (5) which is equal to the reference superheat value.

IPC 8 full level

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CPC (source: EP)

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Citation (applicant)

US 6018959 A 20000201 - SCHMIDT FREDE [DK]

Citation (search report)

- [XAYI] DE 69624104 T2 20030618 - DANFOSS AS [DK]
- [XAI] EP 0811136 A1 19971210 - DANFOSS AS [DK]
- [XAYI] CN 109990510 A 20190709 - HANGZHOU LEADERWAY ELECTRONICS CO LTD
- [A] EP 3109573 A1 20161228 - EMERSON CLIMATE TECH GMBH [DE]

Designated contracting state (EPC)

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