

Title (en)

LAUNDRY DRYER INCLUDING A HEAT PUMP SYSTEM

Title (de)

WÄSCHETROCKNER MIT EINEM WÄRMEPUMPENSYSTEM

Title (fr)

SÈCHE-LINGE COMPRENANT UN SYSTÈME DE POMPE À CHALEUR

Publication

EP 3617391 A1 20200304 (EN)

Application

EP 18191845 A 20180830

Priority

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Abstract (en)

The present invention relates to a dryer (1) including# A treating chamber (3) where items are introduced and treated with a process air flow;# a heat pump system (30) having a refrigerant circuit in which a refrigerant can flow, said refrigerant circuit including a first heat exchanger (32) where the refrigerant is heated up, a second heat exchanger (31) where the refrigerant is cooled off, a compressor (33) to pressurize and circulate the refrigerant through the refrigerant circuit, and a pressure-lowering device; said first and/or second heat exchanger being apt to perform heat exchange between said refrigerant flowing in said refrigerant circuit and said process air; the refrigerant being a flammable refrigerant;# wherein said second heat exchanger (31): ■ is a finned tube heat exchanger comprising a tube (40) having multiple sections (41) one above the other and a plurality of fins (50); ■ is divided in three portions: a central portion (60) wherein said multiple sections (41) of the tube are in contact with said plurality of fins (50), and a first and second end portions (61, 62) where said tube is not in contact with the plurality of fins;# and wherein a ratio between a total external volume (TEV2) of all sections of the tube included in the central portion in contact with the plurality of fins (50) and a compressor displacement (Vmax) has a value lower than 26.

IPC 8 full level

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Citation (applicant)

EP 3066406 B1 20180110 - BSH HAUSGERAETE GMBH [DE]

Citation (search report)

- [ID] EP 3066406 B1 20180110 - BSH HAUSGERAETE GMBH [DE]
- [IA] EP 2980305 A1 20160203 - MIELE & CIE [DE]

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