

Title (en)

Apparatus including a heat pump and method to operate an apparatus including the heat pump

Title (de)

Vorrichtung mit einer Wärmepumpe und Verfahren zur Bedienung einer Vorrichtung mit der Wärmepumpe

Title (fr)

Appareil comprenant une pompe à chaleur et procédé pour faire fonctionner un appareil comprenant la pompe à chaleur

Publication

**EP 2690380 A1 20140129 (EN)**

Application

**EP 12178075 A 20120726**

Priority

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Abstract (en)

The invention relates to a method to operate an apparatus (1) including a heat pump (30) to warm up or to cool down a process medium. The apparatus (1) includes a heat pump (30) having a refrigerant circuit (38) in which a refrigerant can flow, said refrigerant circuit (38) including a first heat exchanger (31) where the refrigerant is cooled off, a second heat exchanger (32) where the refrigerant is heated up, a compressor (33) to pressurize and circulate the refrigerant through the refrigerant circuit, said compressor (33) including a lubricant, and a pressure-lowering device (34); said first and/or second heat exchanger being apt to perform heat exchange between said refrigerant flowing in said refrigerant circuit (38) and said process medium. The method includes: monitoring the temperature and/or pressure value of said refrigerant in a location (35a,35b,35c,35d) within said refrigerant circuit (38); and determining lubricant trapping within said refrigerant circuit (38) on the basis of said temperature and/or pressure values versus time.

IPC 8 full level

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CPC (source: EP)

**F25B 31/00** (2013.01); **F25B 31/004** (2013.01); **F25B 2313/031** (2013.01); **F25B 2500/16** (2013.01)

Citation (applicant)

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