

Title (en)

REFRIGERANT COMPOSITION MEASUREMENT SYSTEM

Title (de)

SYSTEM ZUR MESSUNG EINER KÄLTEMITTELZUSAMMENSETZUNG

Title (fr)

SYSTÈME DE MESURE DE COMPOSITION DE FLUIDE FRIGORIGÈNE

Publication

EP 3658829 A1 20200603 (EN)

Application

EP 18752400 A 20180724

Priority

- US 201762536263 P 20170724
- US 2018043540 W 20180724

Abstract (en)

[origin: WO2019023267A1] A refrigerant blend measurement system (RBMS) (77) is configured to determine a composition of a refrigerant blend within a refrigerant circuit (76) of a vapor compression system. The RBMS includes: a sample vessel (70) configured to receive a portion of the refrigerant blend, wherein the sample vessel comprises a first sensor configured to measure a temperature of a liquid portion (80B) of the refrigerant blend and a second sensor configured to measure a pressure (80A) of the refrigerant blend. The vapor compression system includes a control unit (84) configured to: receive a measured temperature value from the first sensor; receive a measured pressure value from the second sensor; determine a composition of the refrigerant blend based on the measured temperature value and the measured pressure value; and determine that the composition is beyond a predefined threshold stored in the memory, and in response, modify operation of the vapor compression system.

IPC 8 full level

F25B 9/00 (2006.01)

CPC (source: EP)

F25B 9/006 (2013.01); **F25B 41/39** (2021.01); **F25B 2700/04** (2013.01); **F25B 2700/19** (2013.01); **F25B 2700/2108** (2013.01)

Citation (search report)

See references of WO 2019023267A1

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