

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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