

Title (en)

MULTI-TYPE AIR CONDITIONER AND A METHOD FOR CHECKING OPERATION OF INDOOR ELECTRONIC EXPANSION VALVES OF INDOOR UNITS

Title (de)

MEHRFACHTYP-KLIMAAANLAGE UND EIN VERFAHREN ZUR PRÜFUNG DES BETRIEBS DER ELEKTRONISCHEN INNENRAUMAUSDEHNUNGSVENTILE VON INNENRAUMEINHEITEN

Title (fr)

CLIMATISEUR MULTI-BLOC ET UN PROCÉDÉ DE VÉRIFICATION DU FONCTIONNEMENT DE LA VANNE DE DÉTENTE ÉLECTRONIQUE D'INTÉRIEUR DE L'UNITÉ D'INTÉRIEUR

Publication

EP 2256423 B1 20190522 (EN)

Application

EP 09725760 A 20090109

Priority

- JP 2009050182 W 20090109
- JP 2008088597 A 20080328

Abstract (en)

[origin: EP2256423A1] Provided are a multi-type air conditioner, a method for checking the operation of indoor-side electronic expansion valves of indoor units, a computer program, and a fault diagnosis system that allow the operation of electronic expansion valves of indoor units to be reliably checked. A saturation temperature (TS) is calculated from a refrigerant pressure (PL) detected on the low-pressure side of an outdoor unit by a pressure sensor, and the operation of electronic expansion valves is checked using temperature differences (TD) between the calculated saturation temperature (TS) and the temperatures (TE) of indoor heat exchangers detected by temperature sensors. This allows the effect of variations in refrigerant pressure (PL) to be canceled so that the operation of the electronic expansion valves is reliably checked.

IPC 8 full level

F25B 49/00 (2006.01); **F25B 13/00** (2006.01)

CPC (source: EP)

F25B 49/005 (2013.01); **F25B 13/00** (2013.01); **F25B 2313/0233** (2013.01); **F25B 2600/21** (2013.01); **F25B 2600/2513** (2013.01)

Cited by

US10852042B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 2256423 A1 20101201; **EP 2256423 A4 20170906**; **EP 2256423 B1 20190522**; ES 2731592 T3 20191118; JP 2009243720 A 20091022; JP 5199713 B2 20130515; WO 2009119130 A1 20091001

DOCDB simple family (application)

EP 09725760 A 20090109; ES 09725760 T 20090109; JP 2008088597 A 20080328; JP 2009050182 W 20090109