

Title (en)

AIR CONDITIONING DEVICE SPECIALIZED FOR HEATING

Title (de)

KLIMAANLAGENVORRICHTUNG SPEZIELL ZUR HEIZUNG

Title (fr)

DISPOSITIF DE CLIMATISATION CONÇU SPÉCIALEMENT POUR LE CHAUFFAGE

Publication

EP 2436993 A1 20120404 (EN)

Application

EP 10780271 A 20100526

Priority

- JP 2010003531 W 20100526
- JP 2009130529 A 20090529

Abstract (en)

The invention provides a heating dedicated air conditioner that, if performing test operation in a reverse cycle to that of the heating cycle, can prevent drain water from an indoor heat exchanger from overflowing a drain pan. The heating dedicated air conditioner comprises: a compressor (21); an indoor heat exchanger (42); an outdoor heat exchanger (23); an outdoor expansion valve (24), which is provided between one end of the indoor heat exchanger (42) and one end of the outdoor heat exchanger (23); a four-way switching valve (22) that switches between a first state, wherein a discharge side of the compressor (21) and an other end of the indoor heat exchanger (42) are connected and a suction side of the compressor (21) and an other end of the outdoor heat exchanger (23) are connected, and a second state, wherein the discharge side of the compressor (21) and the other end of the outdoor heat exchanger (23) are connected and the suction side of the compressor (21) and the other end of the indoor heat exchanger (42) are connected; an indoor fan (43), which ventilates the indoor heat exchanger (42); and a control unit, which controls at least the compressor (21), the outdoor expansion valve (24), the four-way switching valve (22), and the indoor fan (43); wherein, the control unit, in the test operation mode, switches the four-way switching valve (22) to the second state; and a drain water inhibited interval during which drain water inhibition control is performed, wherein the control unit operates the compressor (21) and stops the indoor fan (43), is provided to the test operation mode.

IPC 8 full level

F24F 1/00 (2011.01); **F24F 11/02** (2006.01); **F25B 13/00** (2006.01); **F25B 49/02** (2006.01); **F25B 9/00** (2006.01)

CPC (source: EP KR US)

F24F 1/0003 (2013.01 - EP KR US); **F24F 11/30** (2017.12 - EP KR US); **F24F 11/52** (2017.12 - EP KR US); **F24F 11/62** (2017.12 - EP US); **F24F 11/65** (2017.12 - KR); **F25B 9/008** (2013.01 - KR); **F25B 13/00** (2013.01 - EP KR US); **F25B 49/02** (2013.01 - EP KR US); **F24F 11/65** (2017.12 - EP US); **F25B 9/008** (2013.01 - EP US); **F25B 2309/06** (2013.01 - EP KR US); **F25B 2313/02741** (2013.01 - EP KR US); **F25B 2313/0293** (2013.01 - EP KR US); **F25B 2600/025** (2013.01 - EP KR US); **F25B 2600/2507** (2013.01 - EP KR US); **F25B 2600/2513** (2013.01 - EP KR US); **F25B 2700/1931** (2013.01 - EP KR US)

Cited by

EP2757325A1

Designated contracting state (EPC)

AL 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 SM TR

DOCDB simple family (publication)

EP 2436993 A1 20120404; **EP 2436993 A4 20140723**; **EP 2436993 B1 20180912**; AU 2010253372 A1 20120119; AU 2010253372 B2 20130207; CN 102449405 A 20120509; CN 102449405 B 20140813; JP 2011007483 A 20110113; JP 4582261 B1 20101117; KR 101362596 B1 20140212; KR 20120024867 A 20120314; US 2012060532 A1 20120315; WO 2010137311 A1 20101202

DOCDB simple family (application)

EP 10780271 A 20100526; AU 2010253372 A 20100526; CN 201080024633 A 20100526; JP 2010003531 W 20100526; JP 2010120132 A 20100526; KR 20117031267 A 20100526; US 201013321866 A 20100526