

Title (en)
Air conditioning system and method for controlling the same

Title (de)
Klimaanlage und Verfahren zur Steuerung derselben

Title (fr)
Conditionneur d'air et procédé de commande de celui-ci

Publication
EP 1662212 A2 20060531 (EN)

Application
EP 05025039 A 20051116

Priority
KR 20040096315 A 20041123

Abstract (en)
The present invention relates to air conditioning systems, and more particularly, to an air conditioning system which can control a refrigerant flow rate to a heat exchanger exchanging heat with room air to be optimum; and a method for controlling the same. The air conditioning system includes an outdoor heat exchange part including a compressor for compressing refrigerant, an outdoor heat exchanger for making the refrigerant to heat exchange with outdoor air, and an expansion device for expanding the refrigerant, an indoor heat exchange part including a pump for making refrigerant in a flow path independent from the outdoor heat exchange part to flow, at least one indoor heat exchanger for making the refrigerant heat exchange with room air, and a flow rate control device for controlling a flow rate of the refrigerant, and a hybrid heat exchange part for making the outdoor heat exchange part and the indoor heat exchange part, which are independent from each other, to heat exchange with each other. According to this, the air conditioning system can be installed on a multistory building without limitation of a height of the building as far as a capacity of the pump permits. Moreover, even if a refrigerant pipe is long, the air conditioning system is applicable even to a system with a refrigerant pipe line longer than the related art as far as the capacity of the pump permits, and fine control of a room air temperature is possible.

IPC 8 full level
F25B 25/00 (2006.01)

CPC (source: EP KR US)
F24F 3/06 (2013.01 - EP KR US); **F24F 11/83** (2017.12 - EP US); **F24F 11/84** (2017.12 - EP KR US); **F24F 11/85** (2017.12 - EP KR US); **F25B 13/00** (2013.01 - KR); **F25B 25/005** (2013.01 - EP KR US); **F24F 2140/20** (2017.12 - EP KR US); **F25B 13/00** (2013.01 - EP US); **F25B 2313/023** (2013.01 - KR); **F25B 2600/2513** (2013.01 - EP KR US); **F25B 2700/2117** (2013.01 - EP KR US); **F25B 2700/21174** (2013.01 - EP KR US); **F25B 2700/21175** (2013.01 - EP KR US)

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Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 1662212 A2 20060531; **EP 1662212 A3 20060906**; CN 1779391 A 20060531; KR 100758902 B1 20070914; KR 20060057226 A 20060526; US 2006107683 A1 20060525

DOCDB simple family (application)
EP 05025039 A 20051116; CN 200510124884 A 20051123; KR 20040096315 A 20041123; US 28369405 A 20051122