

Title (en)

Multi air-conditioner for simultaneously cooling/heating room air and method for controlling the same

Title (de)

Mehrsystem-Klimaanlage zum gleichzeitigen Kühlen/Heizen der Raumluft und Verfahren zu ihrer Ansteuerung

Title (fr)

Climatiseur d'air multiple pour refroidir/réchauffer simultanément l'air de la pièce et son procédé de contrôle

Publication

EP 2006615 A2 20081224 (EN)

Application

EP 08150592 A 20080124

Priority

KR 20070061375 A 20070622

Abstract (en)

A multi air-conditioner (100) for simultaneously cooling/heating room air and a method for controlling the same are disclosed. The multi air-conditioner for simultaneously cooling/heating room air includes: a high-pressure gas pipe (410), a low-pressure gas pipe (430), and a liquid line (420), which are connected between at least one outdoor unit (200) and a plurality of cooling/heating switching sets (300); a flow-regulating valve (260) mounted to a bypass pipe (250) connected between the high-pressure gas pipe (410) and the liquid pipe (420); and a controller (500) for increasing an opening degree of the flow-regulating valve, if a heating rate is not below a reference rate during a heating-biased operation and is equal to or less than a required cooling capacity of an indoor cooling unit during the heating-biased operation.

IPC 8 full level

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CPC (source: EP KR)

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Citation (applicant)

KR 20050005989 A 20050115 - LEE KEON HWA

Cited by

EP2833086A4; EP2863152A4; CN112443947A; EP2354723A3; JP2013170718A; CN114135946A; GB2527457A; RU2612995C1; GB2527457B; SE541272C2; US9518755B2; WO2014141724A3; WO2024018594A1

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