

Title (en)
Multi-unit air conditioning system

Title (de)
Mehrzonenklimaanlage

Title (fr)
Système de climatisation à plusieurs unités

Publication
EP 1645810 A3 20060524 (EN)

Application
EP 05101206 A 20050217

Priority
KR 20040079624 A 20041006

Abstract (en)
[origin: EP1645810A2] A multi-chamber type air conditioning system for simultaneously operating a plurality of indoor units in heating and cooling modes, and a method for controlling the system. The multi-chamber type air conditioning system includes a bypass circuit connected between a high-pressure gas pipe, connected between an outlet of a compressor and the indoor units, and a liquid pipe, connected between the outdoor heat exchanger and the indoor units; and a control unit for controlling the quantity of the refrigerant flowing into the indoor units, operated in a cooling mode, using the bypass circuit based on operating conditions. The multi-chamber type air conditioning system increases the quantity of a refrigerant flowing into the indoor units, operated in the cooling mode, so as not to deteriorate the cooling capacities of the indoor units, operated in the cooling mode, thereby increasing performances of the indoor units, operated in the cooling mode, when the system is operating in a main heating mode. Further, the multi-chamber type air conditioning system controls the opening degree of an outdoor electric valve such that the pressure of the refrigerant at an outlet of a compressor is in a proper range, thereby being stabilized in a short period of time.

IPC 8 full level
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Citation (search report)
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