

Title (en)

Multiple room type air conditioning system and control method therefor.

Title (de)

Klimaanlage für mehrere Räume und Regelverfahren dafür.

Title (fr)

Système de conditionnement d'air pour plusieurs chambres et procédé pour sa commande.

Publication

**EP 0282782 A2 19880921 (EN)**

Application

**EP 88102741 A 19880224**

Priority

JP 6385587 A 19870320

Abstract (en)

A heat pump type multiple room air conditioning system comprises a single outdoor unit (A) including a compressor (1) and an outdoor heat exchanger (4), a plurality of indoor units (B, C, D) each including an indoor heat exchanger (8b, 8c, 8d), a plurality of electric reverse expansion valves (9b, 9c, 9d) and a plurality of solenoid valves (10b, 10c, 10d). The expansion valves (9) associated with the inoperating indoor units of the indoor units, or such expansion valves (9) and the solenoid valves (10) associated with the inoperating indoor units of the indoor units, in operation of the system, are opened or closed to change the amount of refrigerant stored within the inoperating indoor units. The system further comprises a controller (16) for sampling a subcooling degree (SC) of the refrigerant in refrigeration circuit or super heating degree (SH) thereof periodically and for calculating and comparing the sampling data with predetermined values, and control signal outputting means (17) for receiving signals from the controller (16) and for outputting command signals to the expansion valves (9) and the solenoid valves (10) associated with the inoperating indoor units to intermittently close or open the expansion valves (9), or such expansion valves (9) and the solenoid valves (10).

IPC 1-7

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IPC 8 full level

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Cited by

EP1662212A3; CN112484274A; CN105276749A; GB2215867A; US4926652A; GB2215867B; ES2155745A1; US10365025B2; US2019323750A1; US11092368B2; US9303901B2; WO2010118745A3; US11493250B2; US11573038B2

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