

ABSTRACT OF THE DISCLOSURE

AIR CONDITIONING APPARATUS

An air conditioning apparatus includes a first, second and third internal devices, and an external device which is provided with a plurality of separately operable units. Each of the units comprises an inverter compressor for compressing a refrigerant under a high temperature and a high pressure, a first heat exchanger, a four-directional valve for sending the refrigerant to the external heat exchanger during a cooling operation and being closed/opened so as to discharge the refrigerant into each of the internal devices during a heating operation, a check valve for switching on/off the flow of the refrigerant which was compressed after being heat-exchanged in the external heat exchanger, a pair of electronic expansion valves for depressurizing the refrigerant respectively, an electronic expansion valve applied to heating and for further depressurizing the temperature-lowered refrigerant which was depressurized in the expansion valves, and an accumulator between the compressor and the four-directional valve and for temporarily storing therein the refrigerant in each step of the cooling and heating operation.

(Fig. 2)

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