

ABSTRACT OF THE DISCLOSURE

An air conditioner has a refrigerant circuit 1 in which a refrigerant flows through a compressor 2, a condenser 3, a supercooling heat exchanger 10, a first expansion mechanism 4 and an evaporator 5 in this order. In this refrigerant circuit 1, the refrigerant discharged from the compressor 2 is condensed in the condenser 3 and the condensed refrigerant is supercooled in the supercooling heat exchanger 10. This refrigerant is reduced in pressure in the first expansion mechanism 4, thereafter evaporated in the evaporator 5 and sucked into the compressor. Use of a nonazeotrope refrigerant as the above refrigerant can increase the refrigerating capacity improving effect due to supercooling as compared with the case where a single refrigerant is used.