

ABSTRACT

The refrigerating system includes a low stage side refrigerant circuit (2) formed by connecting a low stage side compressor (4), a cascade condenser (5), a low stage side receiver (6), a low stage side expansion valve (7) formed of a temperature-sensitive expansion valve and an evaporator (8) in this order. The system also includes a high stage side refrigerant circuit (3) formed by connecting a high stage side compressor (9), a condenser (10), a high stage side receiver (11), a high stage side expansion valve (12) formed of a motor-operated expansion valve and the cascade condenser (5) in this order. The opening of the high stage side expansion valve (12) is adjusted so that the pressure sensed by a high-pressure sensor (SPH2) for sensing the high pressure in the low stage side refrigerant circuit (2) reaches a predetermined target high pressure.