

Abstract

The invention relates to a method for conditioning air in a test space of a test chamber which serves to receive test material and which can be
5 sealed against an environment and is temperature-insulated, and to a test chamber, a temperature in a temperature range of $-20\text{ }^{\circ}\text{C}$ to $+180\text{ }^{\circ}\text{C}$ being established within the test space by means of a cooling device (10) of a temperature control device of the test chamber, the cooling device comprising a cooling circuit (11) with a refrigerant, a heat exchanger
10 (12), a compressor (13), a condenser (14) and an expansion element (15), an internal heat exchanger (19) of the cooling circuit connected to a high-pressure side (17) of the cooling circuit upstream of the expansion element and downstream of the condenser and to a low-pressure side (18) of the cooling circuit upstream of the compressor and downstream of the
15 heat exchanger being used to cool the refrigerant of the high-pressure side, wherein a zeotropic refrigerant is used as the refrigerant, cooling of the refrigerant of the high-pressure side by means of the internal heat exchanger being used to lower an evaporation temperature at the expansion element.

20 (Fig. 2)