

COOLING APPARATUS AND METHOD FOR SETTING REFRIGERANT
SEALING AMOUNT FOR THE SAME

ABSTRACT

5

An object is to improve cooling efficiency while preventing an abnormal increase in pressure of a high side in a cooling apparatus which uses so-called carbon dioxide as a refrigerant. The cooling apparatus comprises a refrigerant circuit in which a compressor, a gas cooler, pressure reducing means, an evaporator and the like are connected in an annular shape, and carbon dioxide is sealed as a refrigerant. In a stable running state in which a temperature of a space to be cooled by the evaporator is cool, time after a start of the compressor until a difference between outlet and inlet temperatures of the evaporator becomes within 1 degree is 5 minutes or more to less than 20 minutes.

20 Figure 1