

TEMPERATURE CONTROL SYSTEM, TEMPERATURE CONTROL METHOD,
CONTROL DEVICE, AND COMPUTER PROGRAM

ABSTRACT

A temperature control system 1 according to an embodiment includes a refrigeration apparatus 10, a fluid circulation apparatus 20 including a heat exchange unit 21E between an inlet 21U and an outlet 21D and allowing a fluid in the heat exchange unit 21E to exchange heat with a refrigerant in an evaporator 14 of the refrigeration apparatus 10, a first temperature sensor 26 detecting a temperature of a fluid circulating in a downstream portion of the heat exchange unit 21E in a main flow path 21, and a control device 30. The control device 30 controls a compressor 11 so that a rotation speed of the compressor 11 lowers to a set value derived on the basis of a target temperature when a target temperature of the fluid is changed, and performs an initial operation control of changing a flow rate of a fluid circulating in the heat exchange unit 21E in the main flow path 21 simultaneously with, before, or after the control of the compressor 11.

Fig. 1