

ABSTRACT OF THE DISCLOSURE

COMPRESSION CHILLER

Problem

A conventional chiller is susceptible to change in the cooling load and the supply of the waste heat energy is unstable.

Means to Solve the Problem

A heat exchanger 2 is disposed in series between the compressor 1 and the condenser 3. The heat exchanger 2 is provided with a heat storage tank 2a to temporarily store the unstable waste heat energy and with piping to store the waste heat energy from the high temperature coolant which has passed the compressor 1. Preferably, it is further provided with a three-way valve 6 so as to prevent the coolant from flowing to the heat exchanger 2 on the side of the heat storage tank 2a corresponding to the preset temperature. The temperature sensor 10 between the three-way valve 6 and the condenser 3 is, when the coolant temperature reaches a certain temperature, utilized for forcible turning on/off of the fan 3a on the condenser 3 or for strength control of the air blow function step by step or proportionally corresponding to the temperature.

(Fig. 2)