

Abstract

This control device is for a geothermal heat utilization system comprising: a heat source well facility provided with a pumping water well, a return water well, a well-side pipe extending from the pumping water well to the return water well, and a heat exchanger provided partway in the well-side pipe; a geothermal heat utilization circuit provided between the heat exchanger and equipment; and an auxiliary heat supply facility provided in the equipment in parallel with the geothermal heat utilization circuit and provided with a heat source machine. The control device includes a return water temperature acquisition unit that acquires a return water temperature of water returned to a return water well of the geothermal heat utilization system, a flow rate control unit that controls a flow rate of a refrigerant flowing from the geothermal heat utilization circuit to the equipment on the basis of the return water temperature, and a heat source machine control unit that controls start and stop of the heat source machine on the basis of the return water temperature.