ABSTRACT

OPERATION METHOD OF THE EFFICIENT SOLAR FLAT PLATE HEAT ABSORPTION SYSTEM

The invention discloses an efficient solar flat plate heat absorption system, when the sunlight is sufficient, for the primary circulating pipe network, if the temperature of the first thermometer reaches a set temperature, the control system starts the primary circulating pipe network by starting the primary circulating pump, if the temperature of the first thermometer is smaller than the set temperature, the control system stops the operation of the primary circulating pipe network, when the sunlight is not sufficient, for the primary circulating pipe network, the control system starts the electric heater in the pressure bearing water tank, and when the water in the pressure bearing water tank reaches the temperature of the fourth thermometer, the control system starts the primary circulating pipe network; and for the secondary circulating pipe network, if the temperature of the second thermometer reaches the set temperature, the control system starts the secondary circulating pipe network by starting the secondary circulating pump, if the temperature of the second thermometer is smaller than the set temperature, the control system stops the operation of the secondary circulating pipe network, so that the secondary circulating pipe network controls the circulation of the secondary circulation pipe intermittently according to the temperature of the second thermometer through the control system, so that the water temperature in the swimming pool is constant, that is, the third thermometer reaches the set value. The invention makes full use of the heat energy by using the two circulating pipe networks formed by the parallel double heat exchange tubes in the flat plate heat collector group to realize the automatic and constant-temperature heating of the water in a swimming pool and avoid the water temperature in the swimming pool fluctuating suddenly, meanwhile the redundant heat can be recycled, thereby making full use of energy, saving resources and having obvious social and economic benefits.

Figure 1