

EFFICIENT SOLAR FLAT PLATE HEAT ABSORPTION SYSTEM AND OPERATION METHOD THEREOF

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ABSTRACT

The invention discloses an efficient solar flat plate heat absorption system, composed of a primary circulating pipe network, a secondary circulating pipe network and a control system, wherein the primary circulating pipe network is formed by communicating a pipeline in a pressure bearing water tank with a heat exchange tube I in a flat plate heat collector group through a pipeline I and a pipeline III, the
10 secondary circulating pipe network is formed by communicating a pipe network at the bottom of a swimming pool with a heat exchange tube II in the flat plate heat collector group through a pipeline II and a pipeline IV, wherein thermometers are arranged at a water outlet of the heat exchange tube I, at the water outlet of the heat exchange tube
15 II, in the swimming pool and in the pressure bearing water tank, and circulating pumps are arranged on the pipeline I and the pipeline II. 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
20 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.