

This project is designed to be an efficient new type of intelligent control solar antifreeze equipment, which is mainly suitable for all traditional household solar water heaters in urban areas.

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solar water in winter, reducing the utilization of solar energy. The solar energy utilization rate is improved by installing an anti-freeze device for the upper and lower water pipes of the solar ...

This paper proposes a novel PCM-antifreeze solar thermal system which incorporates a specific amount of phase change material (PCM) into the conventional flat-plate ...

Compared with the heat pipe collector system and antifreeze-fluid secondary circulation system, the PCM-antifreeze solar thermal system has the advantages of low cost and high reliability. Inserting the PCM into the solar heating system is one of the hottest trends in solar thermal technology. For the PCM, most of the previous studies focus on ...

As a novel building-integrated solar thermal system, a building-integrated dual-function solar collector system are designed with two operating modes: passive space heating ...

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