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Trough type solar air conditioner





Overview

Can a solar parabolic trough collector be used for solar air conditioning?

In this paper, an independent-developed solar parabolic trough collector (PTC) for solar air conditioning has been adopted in a solar air conditioning system with a three-phase accumulator. The composition and operation strategy of the system are elaborated in detail.

What is the economic analysis of the solar air conditioning system?

Economic analysis of the solar air conditioning system According to the economics analysis method, the economic analysis of the solar air conditioning (SAC) is conducted, meanwhile, which is compared with that of the vapor compression refrigeration system (VCR). 5.1. Levelized annual total cost.

Can a solar air conditioning system supply cooling for buildings day and night?

The calculation and analysis results show that the solar air conditioning system with a three-phase accumulator can continuously and steadily supply cooling for buildings day and night.

What is a three-phase accumulator?

The three-phase accumulator is composed of a three-phase energy storage tank and a refrigerant water storage tank. Both the three-phase energy storage tank and the water storage tank are designed with the integration of the heat exchanger arranged in the upper part and the liquid storage in the lower part of the corresponding tank.



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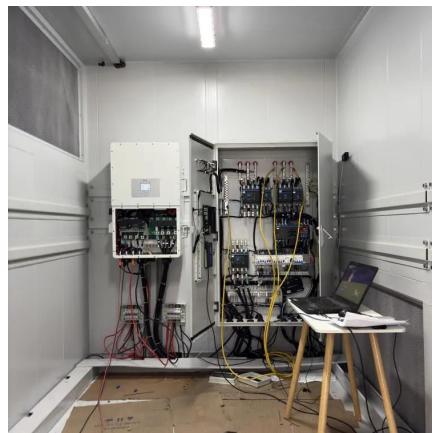
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