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Title: Solar adsorption refrigeration water pump

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While there are several possible methods for supplying water to remote pastures, such as wind, gas/diesel pumps, and ram pumps, solar-powered water pumps may offer the best option in ...

The water pumps, modeled using Type 114, were utilized to circulate fluids in various loops, namely solar loop, regeneration loop, cooling loop, and chilled loop.

Recent studies have provided critical insights and novel design approaches to improve the performance of adsorption refrigeration systems and heat pumps.

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This study proposes a novel integrated heliostat-based solar thermal power generation system coupled with an absorption refrigeration cycle, employing high initial heat ...

For this purpose, a solar-powered vapor adsorption refrigeration system (VA d RS) using activated carbon-methanol and zeolite-water as the working pair has been designed ...

SADCS has advantages over VCS system notably that it is a green cooling technology that utilizes solar energy to drive the adsorption/desorption cycle, using pure water ...

Conventional energy consumption in refrigeration is one of the important reasons in global warming. Solar cooling systems are becoming more compact, having lower costs, and ...

In this chapter, the solar-powered adsorption cooling technology was introduced, including the fundamentals

of adsorption refrigeration, various adsorption working pairs, and options for ...

We have devised several iterations of the Solar Thermal Adsorption Refrigeration (STAR) systems to analyze their performance metrics and assess their environmental impacts ...

Therefore, a comprehensive plethora of the development trend in solar adsorption refrigeration (SAR) spanning through its allied technologies, cycles and applications has been extensively ...

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