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The in-depth analysis of the effect of the ammonia (NH3) mass concentration on the performance of the single-effect solar absorption refrigeration system (using the NH3-H2O binary pair) has ...

TL;DR: In this article, a combination of thermo-economic analysis and multi-objective optimization of a 10kW single-effect ammonia-water solar absorption cooling system is presented, and ...

Abstract:A steady state computer simulation model has been developed to predict the performance of an absorption refrigeration system using NH. 3-H. 2O as a working pair and ...

Abstract-A solar driven ammonia absorption refrigeration system was designed, constructed and tested. It was an intermittent system where ammonia and calcium chloride were used as ...

A solar-driven, single-effect ammonia absorption refrigeration system is proposed.

A detailed analysis of energy and exergy is conducted on a single-effect solar ammonia-water (NH3-H2O) absorption refrigeration cycle (ARC) using TRNSYS and EES software.

In this study, we have considered different configurations based on the ammonia-water (NH 3 -H 2 O) cooling cycle depending on the solar thermal technology: ...

A solar-driven ammonia absorption refrigeration system was designed, constructed, and tested. It was an intermittent system where ...

A solar-driven ammonia absorption refrigeration system was designed, constructed, and tested. It was an intermittent system where ammonia and calcium chloride ...

The objective of this paper is to design and study of an environment friendly solar powered ammonia- water absorption refrigeration system. This system does away with reliance on an ...

A detailed analysis of energy and exergy is conducted on a single-effect solar ammonia-water (NH 3 -H 2 O) absorption refrigeration cycle (ARC) using TRNSYS and EES ...

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