

Climate change, a pressing 21st-century global issue, manifests through rising sea levels, extreme weather events, glacier melting, and the overarching impact of global warming, making renewable energy, sustainable heating, and sustainable cooling solutions like solar-powered air conditioning a top priority and power source of the future.

Passive [3] and active solar cooling systems (SCS) have the advantage of using absolutely harmless working fluids such as water, or salt solution being energy efficient and environmentally safe. They can be used either as stand-alone systems or with conventional air conditioning (AC), to improve the indoor air quality of all types of buildings.

The use of solar energy is an attractive concept that can be used to drive cooling cycles for space conditioning of most buildings. Passive [3] and active solar cooling systems (SCS) have the advantage of using absolutely harmless working fluids such as water, or salt solution being energy efficient and environmentally safe. They can be used either as stand ...

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Rejeb et al. [14] studied the effect of different nanofluid types on the coefficient of performance (COP) solar air conditioning cycle using H<sub>2</sub>O-LiBr chiller coupled with parabolic through collectors (PTC). The numerical results show that it is possible to achieve a maximum COP of 0.77 for the hottest day and there is no significant effect of nanofluid.

In this paper, the performance and economic evaluation of a solar heating and cooling system of a hospital in Crete, is studied using the transient simulation program ...

?????? portable air conditioners; ??? 500+ ??????? ?? ?????????? ??? Multi ???u???????? & ?????? ???u???????? ??? ??????? ??u! ?????? ?????? u??? Skrouz! ????? u??? Skrouz: ??????? ??? ?????? ???????u? ??? ?????? ?????????? u??? ...

The need to implement advanced new concepts in building air conditioning systems is more crucial than ever today. Solar cooling systems (SCS) have the advantage of using absolutely harmless working ...

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solutions of certain salts. They are energy efficient and ...

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