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Title: Solar Direct Expansion System

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Direct-expansion solar assisted heat pumps (DX-SAHPs) have a great potential for various applications and are conducive to the environment by using low-temperature ambient ...

To bridge the gap in the literature, the objective of the review is to assess the effectiveness and feasibility of Direct expansion PV/T and design of PV/T- solar assisted heat pump (SAHP) ...

The objective of the research is to present an investigation on the operational performance of the integrated photovoltaic/thermal system (PV/T) and solar thermal collector (TC) with a heat ...

This study proposes a T-type direct expansion solar PVT heat pump system that exhibits excellent electricity generation performance and is widely applicable for energy supply ...

Scientists in India have conducted an extensive review of all direct expansion solar heat pump technology in an effort to broaden its ...

The system performance of the solar assisted PVT (photovoltaic-thermal) heat pump (SA-PVT-HP) system was experimentally investigated on a typical winter day in Shanghai.

The Direct Expansion Solar Assisted Heat Pump (DX-SAHP) system is a distinct form of solar-assisted heat pump that integrates solar collectors and heat pumps directly, ...

Scientists in India have conducted an extensive review of all direct expansion solar heat pump technology in an effort to broaden its residential adoption.

Based on experimental data, the impacts of refrigerant charge, solar radiation intensity, and ambient temperature on the performances of evacuated tube type DX-SAHP ...

The system performance of the solar assisted PVT (photovoltaic-thermal) heat pump (SA-PVT-HP) system was ...

This study delves into the impact of solar radiation intensity on the direct-expansion solar PVT heat pump system, systematically analyzing the variations in PVT panel ...

This paper proposes a novel approach for improving the performance of a direct-expansion solar-assisted heat pump (DX-SAHP) system by integrating a crystallisation controllable phase ...

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