

Performance indexes are proposed to evaluate the performance of the vaccine storage box, including four basic performance evaluation indexes and two extended evaluation ...

At the same time, a systematic review of several main packaging forms (cold storage plates, cold storage microcapsules, cold storage bags and cold storage balls, etc.) of ...

It can be combined with the traditional insulation box to obtain a cold storage box for cold chain that can absorb renewable energy. In this study, the phase change cold storage ...

Owing to its advantages of high energy storage density, stable temperature during the phase change process, and reliable performance, latent heat storage has received ...

In this review, we focus on reviewing SCHs as a cold energy storage and transport PCM covering both its fundamental properties (thermophysical properties, kinetics of ...

Cooling performance of a portable box integrating with phase change material (PCM)-based cold thermal energy storage (TES) modules was studied and reported in this paper.

Cutting-edge technologies, utilizing multiple phase-change materials (PCMs) as heat/cold sources with advantages in energy storage and mobility, have considerable potential in achieving this ...

In present study, a three-dimensional model of a cold storage system in temperature control container was established and numerical simulations were conducted to ...

A cold storage distribution box was tested to investigate the effects of the amount of phase change material (PCM), adjustment plate opening rate and the heat transfer ...

This review provides an overview and recent advances of the cold thermal energy storage (CTES) in refrigeration cooling systems and discusses the operation control for system ...

Phase change cold storage technology is a kind of technology that utilizes the property of absorbing and releasing heat during the phase change process of phase change ...

In this study, we present an adaptive multi-temperature control system using liquid-solid phase transitions to achieve highly effective thermal management using a pair of ...

If you're looking for a reliable way to keep your food and drinks cold while on the go, investing in one of the

best electric cool boxes is a smart decision. With their efficient ...

It summarizes the future development trend of conventional cold store refrigeration and the advantages and disadvantages of clean energy refrigeration. Then, ...

On the way to practical applications, the research challenges remain in elucidation of underlying mechanism of CO₂ absorption and release with the presence of ...

Phase change cold storage technology can improve the efficiency of energy storage in cold chain logistics. In this paper, a new ternary salt-water eutectic ...

To address the current issue of the difficulty to use the hot outdoor environment during summer nights to provide coolness for phase change materials (PCM) and thus reduce building energy ...

This paper investigates the energy, exergy, and economic performance of both the charge and discharge processes of the energy storage system, as well as the overall ...

The cold storage packed beds with methanol/propane as cold recovery fluids are easier to be penetrated by thermoclines at the same size of pebbles, which causes a lower ...

The cold storage process can be realized through free or cheap cold sources. o The cold energy storage unit can reduce energy consumption of space cooling. o The cold energy storage unit ...

Cool Storage Using Ice Ice is an efficient cool storage medium. Cool storage systems using ice can store and release 144 British thermal units (Btu) per pound (334,000 joules per kilogram) ...

There are two ways to meet the low-temperature demand for vaccine transportation. One way is to use active cooling that consumes additional energy for ...

The energy storage characteristic of PCMs can also improve the contradiction between supply and demand of electricity, to enhance the stability of the power grid [9]. ...

This paper reviews the application and research of cold storage technology in cold chain transportation and distribution and points out the research prospects of ...

Phase change cold storage technology has the characteristics of large energy storage capacity, low carbon and recyclable. It can be combined with the traditional insulation box to obtain a ...

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