

Gudian Refrigeration Energy Storage Solution





Overview

How can a CTEs be integrated into a refrigeration system?

There are three strategies to operate a CTES that is integrated into a refrigeration system. The three scenarios are: The full storage (Fig. 4a), partial storage with load levelling (Fig. 4 b) and partial storage with load limiting (Fig. 4 c).

How can cold storage improve the reliability of a refrigeration system?

Last but not least, the cold storage can increase the system reliability by supplying the cooling capacity under different unforeseen conditions such as a power blackout situation or component failure in the refrigeration system. There are three strategies to operate a CTES that is integrated into a refrigeration system.

Can a supermarket refrigeration system be used in a laboratory?

Investigating a real-scale supermarket refrigeration system at a laboratory level is costly and a complex procedure compared to refrigerated display cabinets and vending machines, although all-in-one CO₂ refrigeration system for supermarkets is explored by Pardiñas et al. , considering an integrated ice storage into the display cabinets.

What is the purpose of a refrigeration storage system?

The main purpose of the storage is to provide the peak cooling demand during the cooling down of new products when they are placed in the cooler (pull-down load) so that the refrigeration system can be sized for the average refrigeration load rather than the peak load.



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