

## Solar Energy South Africa

# How to write the energy storage cabinet refrigeration plan



## Overview

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How do I design a building with refrigerated spaces?

Buildings with refrigerated spaces shall be consistent with the design drawings including proper accounting of envelope types and areas; interior lighting power density and controls; refrigeration system types; sizes and controls; and service water heating systems and controls.

How do I reduce the load a refrigeration system must meet?

There are many ways to reduce the load that the refrigeration system must meet. Envelope upgrades such as increasing insulation, selecting better doors, and installing an efficient lighting system all reduce the amount of heat within the refrigerated space that the refrigeration system must remove.

What regulations apply to refrigerated storage cabinets?

Regulation (EU) 2015/1094 and Regulation (EU) 2015/1095 apply to the refrigerated storage cabinets belonging to the professional sector, i.e. to those appliances intended for use "in non-household environments but not for the display to or access by customers" (Article 2.1.a of Regulation (EU) 2015/10954).

What is an effective refrigeration energy management strategy?

An effective refrigeration energy management strategy strives to raise awareness of energy use and operating costs. All plant staff should have full knowledge of the costs of running the refrigeration system—from plant engineers, process operators, to maintenance staff.

How can I improve the efficiency of my refrigeration system?

**Solution 1 - Improve the efficiency of your existing system** Often, a refrigeration system runs inefficiently because the current system requirements differ from the original design conditions. Challenges to improving system efficiency are: Large-scale improvements can require

replacement of a fully.

What is new in refrigerated storage cabinets?

As professional refrigerated storage cabinet technology improves, future requirements will be revised to cover this portion of the market. Once adopted by UK and EU Regulations, introduce the new testing standard ISO 22041: 2019. Got a minute?

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### EnErgy IAbElling of profESSIONAl rEfrigErAtEd cABinEts: bEnEfits ...

Energy efficient cabinets save running costs for users every day label-type/professional-refrigerated-storage-cabinets. 8 Cabinets already in an EU supply chain at 1 July 2019 do not ...

### DELEGATED REGULATION (EU) 2015/1094 of 5 May 2015

(a) at the point of sale, each professional refrigerated storage cabinet shall bear the label provided by suppliers in accordance with Article 3(1) on the outside of the front or top of the appliance, ...



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