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Packaged refrigerating units for walk-in cold rooms - Classification, performance and energy consumption testing

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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English Version

Packaged refrigerating units for walk-in cold rooms - Classification, performance and energy consumption testing

Groupes frigorifiques prêts à monter pour chambres froides - Classification, performance et essai de consommation d'énergie

Kälteaggregate für begehbare Kühlräume - Klassifikation, Prüfung der Leistung und des Energieverbrauchs

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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN 17432:2021) has been prepared by Technical Committee CEN/TC 44 “Commercial and Professional Refrigerating Appliances and Systems, Performance and Energy Consumption”, the secretariat of which is held by UNI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by March 2022, and conflicting national standards shall be withdrawn at the latest by March 2022.

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Introduction

This document was developed in order to provide a suitable method of performance testing of packaged refrigerating units for stationary cold room applications.

This is the first edition of this document. It includes testing only in so-called “dry conditions”. That means, the evaporator does not show any ice formation during the test. Although it is well-known, that such conditions do not represent the typical situation in the practical use of the packaged refrigerating units, this edition of the document focusses on the description of a test procedure providing reliable test results, which can be used to compare the performance of different models/types of packaged refrigerating unit.

In order to keep the test procedure in this document practically oriented, tests under so-called “wet conditions” as well as taking defrost periods into account will be a future Work Item of the responsible working group. The aim is to integrate such tests in a later revision of this document.

This document reflects the current market situation which shows that only refrigerating units without integrated pump for the heat transfer medium on the exterior heat exchanger are offered.

1 Scope

This document specifies classification criteria, test conditions and test procedures for performance testing of packaged refrigerating units for stationary cold room applications. This includes ductless units for cold storage applications at medium temperatures (MT) and low temperatures (LT) in either compact or split designs, fitted with electrically driven compressors, which work according to the vapour compression cycle.

2 Normative references

There are no normative references in this document.