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Rooftop units - Testing and rating at standard rating conditions and part load conditions for calculation of seasonal performance

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

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Rooftop units - Testing and rating at standard rating conditions and part load conditions for calculation of seasonal performance

Unités de toiture - Essais et détermination des performances nominales et des performances à charge partielle pour le calcul de performances saisonnières

Dachgeräte - Prüfung und Bewertung unter Standardbedingungen und Teillastbedingungen zur Berechnung der jahreszeitlichen Leistung

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COMITÉ EUROPÉEN DE NORMALISATION
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EN 17625:2025 (E)**European foreword**

This document (EN 17625:2025) has been prepared by Technical Committee CEN/TC 113 “Heat pumps and air conditioning units”, the secretariat of which is held by UNE.

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of an identical text or by endorsement, at the latest by May 2026, and conflicting national standards shall be withdrawn at the latest by May 2026.

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1 Scope

This document specifies the terms and definitions, the test conditions and the test methods for the rating and performance of rooftop units. It also specifies the determination of capacities and the calculation methods considering rooftop units features, such as free cooling and air flow mixtures, for the determination of seasonal energy efficiencies in cooling and heating.

This document covers only space heating and/or cooling for comfort applications (process applications are outside the scope of this document). It applies to air-to-air and water(brine)-to-air rooftop units with electrically driven compressor(s), which may be equipped with a supplementary heater using electrical resistance or combustion of fossil fuel. This document does not cover rooftop units with remote condensers.

This document covers the features of free cooling, mixing air flows (on both sides) and internal heat recovery, as illustrated in Annex A. Annex B provides additional definitions and methods for determining seasonal performances for space cooling/heating with a minimum mixture of outdoor air and recycled air.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 14511-1:2022, *Air conditioners, liquid chilling packages and heat pumps for space heating and cooling and process chillers, with electrically driven compressors - Part 1: Terms and definitions*

EN 14511-3:2022, *Air conditioners, liquid chilling packages and heat pumps for space heating and cooling and process chillers, with electrically driven compressors - Part 3: Test methods*

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