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

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

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

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91.140.30	Prezračevalni in klimatski sistemi	Ventilation and air-conditioning systems

SIST EN 17625:2026 **en,fr,de**

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NORME EUROPÉENNE

EUROPÄISCHE NORM

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

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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of an identical text or by endorsement, at the latest by May 2026, and conflicting national standards shall be withdrawn at the latest by May 2026.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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3 Terms, definitions, symbols, abbreviated terms and units

3.1 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp/

— IEC Electropedia: available at https://www.electropedia.org/

3.1.1
rooftop
air conditioning unit which main function is space cooling or heating, or both, using a vapour compression cycle driven by electric compressor(s) and in which the evaporator, compressor(s), condenser and supplementary heaters are integrated into a single package, that can be provided on one or two separate frames

Note 1 to entry: Rooftop units use recycled air or a mixture of recycled air and outdoor air on the indoor heat exchanger, and outdoor air or a mixture of outdoor air and extracted air on the outdoor heat exchanger, with capability of free cooling and may be equipped with a heat recovery system to benefit from the extracted air.

Note 2 to entry: Air mixtures ratio can vary from 0 % to 100 %.

Note 3 to entry: It can have means for cleaning and/or dehumidifying the air.

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3.1.2
supply air
air leaving the rooftop unit for entering the space that is to be air-conditioned

3.1.3
extracted air
air removed from the conditioned space and rejected outdoors without entering the indoor nor the outdoor heat exchanger

Note 1 to entry: The extracted air may be entering a heat recovery device to enhance the efficiency of the unit.

3.1.4
recycled air
air from the air-conditioned space entering the indoor heat exchanger

3.1.5
exhaust air
air from the air-conditioned space entering the outdoor heat exchanger

3.1.6
2-damper rooftop
rooftop including indoor fan(s) for air supply, one damper on the recycled air circuit and one damper on the outdoor air circuit that allow to vary the ratio of outdoor air into the indoor heat exchanger from 0 % to 100 %

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Note 1 to entry: See Figure A.1.

3.1.7
3-damper rooftop
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rooftop including fan(s) for air supply and fan(s) for air extraction, one damper on the recycled air circuit, one damper on the outdoor air circuit and a third damper on the extract air circuit ahead of the air extraction fan, with both fans functioning simultaneously that allow to vary the ratio of outdoor air into the indoor heat exchanger from 0 % to 100 %

Note 1 to entry: The extracted air can be mixed with outdoor air before entering the outdoor heat exchanger.

Note 2 to entry: See Figures A.2, A.3 and A.4.

3.1.8
4-damper rooftop
rooftop equipped with four dampers for providing mixtures of outdoor air and exhaust air at the inlet of both outdoor and indoor heat exchangers that allow to vary independently the ratio of outdoor air entering both heat exchangers from 0 % to 100 %

Note 1 to entry: See Figures A.5 and A.6.

3.1.9
free cooling
operation mode of the rooftop in which the cooling capacity is partially or totally provided by direct supply of outdoor air or of a mixture of outdoor air/recycled air to air-conditioned space, with or without using the thermodynamic cycle

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3.1.10
heat recovery device
any device capable to recover an amount of energy from the extracted air for the purpose of improving the overall rooftop efficiency

3.1.11
available external static pressure difference
Δ_{pe}
positive pressure difference measured between the air (or water) outlet section and the air (or water) inlet section of the unit, which is available for overcoming the pressure drop of any additional ducted air (or water) circuit

Note 1 to entry: Expressed in Pa.

3.1.12
conversion coefficient
CC
coefficient for power generation efficiency

Note 1 to entry: The value of *CC* to apply can be found in the relevant regulation, or is 2,5 by default.

3.1.13
design load
P_{design}
space cooling ($P_{designc}$) or space heating ($P_{designh}$) load declared by the manufacturer at $T_{designc}$ or $T_{designh}$ conditions respectively

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Note 1 to entry: It is possible to calculate the $SEER$/ $SEER_F$/$SEER_{on}$/$SEER_{on,F}$ or $SCOP$/$SCOP_{on}$/$SCOP_{net}$ of a unit for more than one P_{design} value.

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Note 2 to entry: Expressed in kW.

3.1.14
capacity ratio
CR
cooling (or heating) part load or full load divided by the declared cooling (or heating) capacity of the unit at the same temperature conditions

Note 1 to entry: Expressed in kW/kW.

3.1.15
part load ratio
$pl(T_j)$
bin temperature minus 16 °C divided by the reference design temperature minus 16 °C

3.1.16
declared capacity
cooling (P_{dc}) or heating (P_{dh}) capacity a unit can provide at any temperature condition A, B, C, C', D, E1, E2, E, F or G, as declared by the manufacturer

Note 1 to entry: Expressed in kW.

Note 2 to entry: This is the capacity provided by the rooftop running in the active mode or free cooling mode without supplementary heaters, even if those are integrated in the unit.

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3.1.17
capacity control
ability of the unit to change its capacity by changing the volumetric flow rate of the refrigerant

Note 1 to entry: Units are indicated as “fixed” if the unit cannot change its volumetric flow rate, “staged” if the volumetric flow rate is changed or varied in series of not more than two steps, or “variable” if the volumetric flow rate is changed or varied in series of three or more steps.

3.1.18
temperature controls
equipment that interfaces with the end-user regarding the values and timing of the desired indoor temperature, and communicates relevant data to an interface of the space heater or the space cooling unit such as a central processing unit, thus helping to regulate the indoor temperature(s)

3.1.19
reactivation function
function facilitating the activation of other modes, including active mode, by remote switch including remote control, internal sensor, timer to a condition providing additional functions, including the main function, but excluding thermostats

3.1.20
information or status display
continuous function providing information or indicating the status of the equipment on a display, including clocks

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3.1.21
outdoor air
air from the outdoor environment

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3.1.22
outdoor air ratio
OAR
ratio of outdoor air volume and supply air volume at standard air conditions

3.1.23
climate conditions
temperature conditions characteristic for a specific location

3.1.24
average climate
temperature conditions characteristic for the city of Strasbourg for the heating season

3.1.25
colder climate
temperature conditions characteristic for the city of Helsinki for the heating season

3.1.26
warmer climate
temperature conditions characteristic for the city of Athens for the heating season

3.1.27
bin
j
outdoor temperature interval of 1 K

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3.1.28
bin hours
h_j
hours per season for which an outdoor temperature occurs for each bin *j*

3.1.29
bin temperature
T_j
outdoor air dry bulb temperature at bin *j*

Note 1 to entry: Expressed in °C.

Note 2 to entry: The relative humidity may be indicated by a corresponding wet bulb temperature.

3.1.30
bin limit temperature
temperature in the bin for which no more heating or cooling is required

Note 1 to entry: Expressed in °C.

Note 2 to entry: The bin limit temperature equals 16 °C for all climates in space cooling and space heating applications.

3.1.31
active mode
mode corresponding to the hours with a space cooling or heating load of the building and whereby the cooling or heating function of the unit is activated

Note 1 to entry: This condition may involve on/off-cycling of the unit in order to reach or maintain a required indoor air temperature.

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3.1.32
active cooling
operation of the rooftop in which the cooling capacity is only provided by the use of thermodynamic cycle

3.1.33
energy efficiency ratio
EER
ratio of the total cooling capacity to the effective power input of the unit

Note 1 to entry: Expressed in kW/kW.

3.1.34
cooling mode
operation of the rooftop providing space cooling by means of the active cooling or free cooling, where relevant

3.1.35
reference cooling season
set of operating conditions describing per bin the combination of outdoor temperatures and the number of hours these temperatures occur for cooling and for which the unit is declared fit for purpose

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3.1.36
reference design conditions for space cooling
$T_{designc}$
temperature conditions at 35 °C dry bulb (24 °C wet bulb) outdoor temperature and 27 °C dry bulb (19 °C wet bulb) indoor temperature

Note 1 to entry: Expressed in °C.

3.1.37
reference annual cooling demand
Q_C
reference cooling demand to be used as basis for calculation of $SEER/SEER_F$ and calculated as the product of the design load for cooling ($P_{designc}$) and the equivalent active mode hours for cooling (H_{CE})

Note 1 to entry: Expressed in kWh

3.1.38
equivalent active mode hours for cooling
H_{CE}
assumed annual number of hours the unit must provide the design load for space cooling ($P_{designc}$) in order to satisfy the reference annual space cooling demand

Note 1 to entry: Expressed in h.

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3.1.39
part load for cooling
$P_c(T_j)$
cooling load at a specific bin temperature T_j, calculated as the design load multiplied by the part load ratio

Note 1 to entry: Expressed in kW.

3.1.40
annual energy consumption for space cooling
Q_{CE}
energy consumption required to meet the reference annual space cooling demand and calculated as the reference annual space cooling demand divided by the active mode seasonal energy efficiency ratio ($SEER_{on}$) and the energy consumption of the unit for thermostat-off-, standby-, off- and crankcase heater mode during the cooling season

Note 1 to entry: Expressed in kWh.

3.1.41
energy efficiency ratio at part load
EER_{bin}
energy efficiency ratio EER_d, corrected with the degradation coefficient, where applicable

Note 1 to entry: Expressed in kW/kW.

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3.1.42
energy efficiency ratio at declared capacity
EER_d
declared cooling capacity of the unit divided by the effective power input of a unit at specific temperature conditions A, B, C, C', D, E1 and E2 where applicable

Note 1 to entry: Expressed in kW/kW.

3.1.43
bin-specific energy efficiency ratio
$EER_{bin}(T_j)$
energy efficiency ratio specific for every bin j with outdoor temperature T_j in a season

Note 1 to entry: Expressed in kW/kW.

3.1.44
active mode seasonal energy efficiency ratio
$SEER_{on}$
average energy efficiency ratio of the unit in active mode for the space cooling function, determined from part load and bin-specific energy efficiency ratios ($EER_{bin}(T_j)$) and weighted by the bin hours where the bin condition occurs

Note 1 to entry: For calculation of $SEER_{on}$, the energy consumption during thermostat-off mode, standby mode, off mode and that of the crankcase heater is excluded.

Note 2 to entry: Expressed in kWh/kWh.

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3.1.45
seasonal energy efficiency ratio
$SEER$
overall energy efficiency ratio of the unit, representative for the whole cooling season for units with no free cooling capabilities running at 100% recycled air

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Note 1 to entry: The seasonal energy efficiency ratio is calculated as the reference annual cooling demand Q_C divided by the annual energy consumption for cooling Q_{CE}.

Note 2 to entry: Expressed in kWh/kWh.

3.1.46
seasonal space cooling energy efficiency
$\eta_{s,c}$
energy efficiency of a space cooling unit while meeting the space cooling demand for the cooling season

Note 1 to entry: Expressed in %.

3.1.47
cycling interval capacity for cooling
P_{cycc}
(time-weighted) average cooling capacity output over the cycling interval test

Note 1 to entry: Expressed in kW.

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