SLOVENSKI STANDARD
SIST EN ISO 29464:2019

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Nadomešča:
SIST EN 14799:2007

Čiščenje zraka in drugih plinov - Terminologija (ISO 29464:2017)

Cleaning of air and other gases - Terminology (ISO 29464:2017)

Reinigung von Luft und anderen Gasen - Terminologie (ISO 29464:2017)

Épuration de l'air et autres gaz - Terminologie (ISO 29464:2017)

Ta slovenski standard je istoveten z: **EN ISO 29464:2019**

ICS:

01.040.13	Okolje. Varovanje zdravja. Varnost (Slovarji)	Environment. Health protection. Safety (Vocabularies)
13.040.99	Drugi standardi v zvezi s kakovostjo zraka	Other standards related to air quality
23.120	Zračniki. Vetrniki. Klimatske naprave	Ventilators. Fans. Air-conditioners

SIST EN ISO 29464:2019 **en,fr,de**

EUROPEAN STANDARD

NORME EUROPÉENNE

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Supersedes EN 14799:2007

English Version

Cleaning of air and other gases - Terminology (ISO 29464:2017)

Épuration de l'air et autres gaz - Terminologie (ISO 29464:2017)

Reinigung von Luft und anderen Gasen - Terminologie (ISO 29464:2017)

This European Standard was approved by CEN on 12 August 2019.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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

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European foreword

The text of ISO 29464:2017 has been prepared by Technical Committee 142 "Cleaning equipment for air and other gases" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 29464:2019 by Technical Committee CEN/TC 195 "Air filters for general air cleaning" 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of an identical text or by endorsement, at the latest by April 2020, and conflicting national standards shall be withdrawn at the latest by April 2020.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

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Endorsement notice

The text of ISO 29464:2017 has been approved by CEN as EN ISO 29464:2019 without any modification.

INTERNATIONAL STANDARD

ISO 29464

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Cleaning of air and other gases — Terminology

Épuration de l'air et autres gaz — Terminologie

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 142, *Cleaning equipment for air and other gases*.

This second edition of ISO 29464 cancels and replaces the first edition (ISO 29464:2011), which has been technically revised.

Cleaning of air and other gases — Terminology

1 Scope

This document establishes a terminology for the air filtration industry and comprises terms and definitions only.

This document is applicable to particulate and gas phase air filters and air cleaners used for the general ventilation of inhabited enclosed spaces. It is also applicable to air inlet filters for static or seaborne rotary machines and UV-C germicidal devices.

It is not applicable to cabin filters for road vehicles or air inlet filters for mobile internal combustion engines for which separate arrangements exist. Dust separators for the purpose of air pollution control are also excluded.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

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

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

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

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

3.1 General, applicable to both particulate and gas-phase air cleaners

3.1.1
air cleaner
device intended to remove *contaminants* (3.1.8) from air in a ventilation system or enclosed space

3.1.2
air velocity
rate of air movement

Note 1 to entry: It is expressed in m/s (fpm) to three significant figures.

3.1.3
bypass
air filter bypass
sneakage
proportion of the *challenge air stream* (3.5.13) that passes around an *air cleaner* (3.1.1) without interacting with the air cleaner

3.1.4
calibrate
to compare readings from the instrument to be calibrated with those from a reference device

3.1.5
capture
extraction of particles, liquid particles or gases, close to their sources for purposes of collection or sampling

3.1.6
classification
allocation of filters into groups and classes according to relevant aspects of their filtration performance

3.1.7
concentration
quantity of one substance dispersed in a defined amount of another

3.1.8
contaminant
pollutant
substance (solid, liquid or gas) that negatively affects the intended use of a fluid

3.1.9
contamination
pollution
presence of a substance that negatively affects the intended use of a fluid

3.1.10
decontamination factor
ratio of the *contaminant* (3.1.8) concentration or particle number upstream of the test device to the contaminant *concentration* (3.1.7) or particle number downstream of the device

Note 1 to entry: The decontamination factor can also be expressed as 1/(1 – overall efficiency) or as 1/penetration.

3.1.11
downstream
area or region into which fluid flows on leaving the test device

3.1.12
efficiency
filter efficiency
fraction or percentage of a challenge *contaminant* (3.1.8) that is removed by a test device

3.1.13
average efficiency
value of efficiency which results from averaging the efficiencies determined over a number of discreet intervals up to the final pressure differential

3.1.14
effluent
fluid discharged from a given source into the external environment

Note 1 to entry: This is a general term describing any fluid discharged from a given source; in this context, the discharged fluid may be liquid or gaseous and may contain associated liquid and/or particulate *contaminants* (3.1.8).

3.1.15
face velocity
filter face velocity
volumetric air flow rate divided by the *nominal filter face area* (3.1.18)

Note 1 to entry: filter face velocity is expressed in m/s.

3.1.16
filter
air filter
device for separating solid or liquid particles or gaseous *contaminant* (3.1.8) from an air stream passing through the device

Note 1 to entry: The device is generally formed of a layer or layers of porous, fibrous or granular material.

Note 2 to entry: Air being cleaned by a filter must pass through the filter, whereas an *air cleaner* (3.1.1) can reduce air *contamination* (3.1.9) by any method.

3.1.17
filter face area
cross-sectional face area of the filter including the header frame when viewed from the direction of air flow using exact dimensions

3.1.18
nominal filter face area
cross-sectional face area of the filter including the header frame when viewed from the direction of air flow using nominal dimensions

3.1.19
filter insert
replaceable part of a filter which contains the filter medium but which can only operate mounted inside a frame

3.1.20
filter medium
material separating *particulate matter* (3.2.139) from gases and characterized by its separating structure and its structural and/or textile-technological characteristics

3.1.21
filter medium area
area of *filter medium* (3.1.20) contained in the filter

Note 1 to entry: For filters with pleats or folds, the filter medium area may be much larger than the *filter face area* (3.1.17).

3.1.22
effective filter medium area
effective filtering area
exposed filter area
area of the *filter medium* (3.1.20) contained in the filter through which air passes during operation

Note 1 to entry: This excludes areas covered by sealant, spacers, struts, etc.

Note 2 to entry: Effective filter medium area is expressed in m^2.

3.1.23
filter medium velocity
media velocity
medium velocity
volumetric air flow rate divided by the *effective filter medium area* (3.1.22) of the *filter element* (3.2.77)

Note 1 to entry: Filter medium velocity is expressed in m/s.

Note 2 to entry: In devices where the filter medium surface area has been increased by use of pleats, folds or bags, the filter medium velocity may be much less than the *filter face velocity* (3.1.15).