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Dentistry - Mobile dental units and dental patient chairs - Part 2: Air, water, suction and wastewater systems (ISO 5467-2:2022)

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

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## Dentistry - Mobile dental units and dental patient chairs - Part 2: Air, water, suction and wastewater systems (ISO 5467-2:2022)

Médecine bucco-dentaire - Units dentaires et fauteuils  
dentaires patient mobiles - Partie 2: Systèmes  
d'alimentation en air et en eau, d'aspiration et  
d'évacuation des eaux usées (ISO 5467-2:2022)

Zahnheilkunde - Mobile Behandlungseinheiten und  
Patientenliegen - Teil 2: Luft, Wasser, Absaugung und  
Abwasser (ISO 5467-2:2022)

This European Standard was approved by CEN on 6 September 2022.

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

**EN ISO 5467-2:2022 (E)**

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## **European foreword**

This document (EN ISO 5467-2:2022) has been prepared by Technical Committee ISO/TC 106 "Dentistry" in collaboration with Technical Committee CEN/TC 55 "Dentistry" the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by April 2023, and conflicting national standards shall be withdrawn at the latest by April 2023.

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 5467-2:2022 has been approved by CEN as EN ISO 5467-2:2022 without any modification.

# INTERNATIONAL STANDARD

# ISO 5467-2

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## Dentistry — Mobile dental units and dental patient chairs —

### Part 2: Air, water, suction and wastewater systems

*Médecine bucco-dentaire — Units dentaires et fauteuils dentaires  
patient mobiles —*

*Partie 2: Systèmes d'alimentation en air et en eau, d'aspiration et  
d'évacuation des eaux usées*



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ISO 5467-2:2022(E)

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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](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

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

For an explanation of 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 [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 106, *Dentistry*, Subcommittee SC 6, *Dental equipment*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 55, *Dentistry*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

A list of all parts in the ISO 5467 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

**ISO 5467-2:2022(E)****Introduction**

This document was developed in consideration of ISO 7494-2:2022, so as to be applicable to mobile dental units. The requirements in this document focus on certain technical aspects to be appropriate for international standardization. The requirements for microbiological aspects of the fluids transported by mobile dental units are acknowledged to be also worthy of standardization and requirements pertaining to the prevention, inhibition, and removal of mobile dental unit waterline biofilm are being developed.

# Dentistry — Mobile dental units and dental patient chairs —

## Part 2: Air, water, suction and wastewater systems

### 1 Scope

This document specifies the requirements and test methods for mobile dental units concerning:

- a) the properties of mobile dental unit connections to the compressed air supply, water supply, suction supply, and wastewater drain plumbing,
- b) the materials, design, and construction of the compressed air and water system within the mobile dental unit,
- c) the quality for incoming water and air,
- d) the performance of mobile dental unit suction system, and
- e) the air, water, suction and wastewater properties of mobile dental unit connections to the interfaces to dental handpieces.

This document also specifies requirements for instructions for use and a technical description.

This document is only applicable to mobile dental units that are not used for oral surgery treatment requiring sterile air and water supplies. Amalgam separators are not included in this document.

### 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.

ISO 1942, *Dentistry — Vocabulary*

ISO 5167-1, *Measurement of fluid flow by means of pressure differential devices inserted in circular cross-section conduits running full — Part 1: General principles and requirements*

ISO 5467-1, *Dentistry — Mobile dental units and dental patient chairs — Part 1: General requirements*

ISO 7494-2:2022, *Dentistry — Stationary dental units and dental patient chairs — Part 2: Air, water, suction and wastewater systems*

ISO 8573-1, *Compressed air — Part 1: Contaminants and purity classes*

ISO 10637, *Dentistry — Central suction source equipment*

ISO 22052, *Dentistry — Central compressed air source equipment*

IEC 60601-1:2005+AMD1:2012+AMD2:2020, *Medical electrical equipment — Part 1: General requirements for basic safety and essential performance*

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