

Dentistry - Dental units - Part 2: Water and air supply

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN ISO 7494-2:2004 sisaldab Euroopa standardi EN ISO 7494-2:2003 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 23.11.2004 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN ISO 7494-2:2004 consists of the English text of the European standard EN ISO 7494-2:2003.</p> <p>This document is endorsed on 23.11.2004 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala:</p> <p>This part of ISO 7494 specifies requirements and test methods for the materials, design and construction of the water and air supply within dental units in order to ensure that the compressed water and air supplied via the dental unit are of appropriate quality. It includes provisions for the prevention of retraction of oral fluids into the water supply of the dental unit.</p>	<p>Scope:</p> <p>This part of ISO 7494 specifies requirements and test methods for the materials, design and construction of the water and air supply within dental units in order to ensure that the compressed water and air supplied via the dental unit are of appropriate quality. It includes provisions for the prevention of retraction of oral fluids into the water supply of the dental unit.</p>
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Võtmesõnad:

English version

Dentistry

Dental units

Part 2: Water and air supply
(ISO 7494-2 : 2003)

Art dentaire – Units dentaires –
Partie 2: Alimentation en eau et en
air (ISO 7494-2 : 2003)

Zahnheilkunde – Zahnärztliche Be-
handlungsgeräte – Teil 2: Wasser- und
Luftversorgung (ISO 7494-2 : 2003)

This European Standard was approved by CEN on 2003-02-07.

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

The European Standards exist in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Management Centre has the same status as the official versions.

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CEN

European Committee for Standardization
Comité Européen de Normalisation
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Foreword

International Standard

ISO 7494-2 : 2003 Dentistry – Dental units – Part 2: Water and air supply, which was prepared by ISO/TC 106 'Dentistry' of the International Organization for Standardization, has been adopted by Technical Committee CEN/TC 55 'Dentistry', the Secretariat of which is held by DIN, as a European Standard.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, and conflicting national standards withdrawn, by September 2003 at the latest.

In accordance with the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard:

Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, the Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland, and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 7494-2 : 2003 was approved by CEN as a European Standard without any modification.

NOTE: Normative references to international publications are listed in Annex ZA (normative).

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Introduction

The requirements for water and air supply of dental units have been discussed extensively in TC 106/SC 6/WG 2, and it was concluded that the technical specifications for the water and air lines within dental units are sufficiently defined while the microbiological side of the problem is not addressed.

The formulation of criteria in order to avoid or reduce biofilm on the surfaces in water and air lines was considered difficult. Because the current technical state of the art does not provide an all-inclusive solution, no agreement could be reached. Therefore it was agreed to publish first the general technical requirements for the water and air lines as an International Standard. In the next step it is envisaged to find a solution for the microbiological problems, including evaluation criteria for controlling or removing dental waterline biofilm.

1 Scope

This part of ISO 7494 specifies requirements and test methods for the materials, design and construction of the water and air supply within dental units in order to ensure that the compressed water and air supplied via the dental unit are of appropriate quality. It includes provisions for the prevention of retraction of oral fluids into the water supply of the dental unit.

This part of ISO 7494 does not address prevention of contamination and/or proliferation of hazardous micro-organisms (for example bacteria, viruses) in the dental unit.

2 Normative references

The following referenced documents are indispensable for the application 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 7494:1996, *Dental units*

ISO 11144, *Dental equipment — Connections for supply and waste lines*

3 Terms and definitions

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

3.1

procedural water

water supplied by the dental unit for use in the oral cavity

EXAMPLE Handpiece coolant water, syringe water, scaler coolant water or rinse cup water.

3.2

non-procedural water

water supplied by the dental unit for purposes other than use in the oral cavity

EXAMPLE Cuspidor bowl rinse water or water venturi supply water.

3.3

incoming water

water supplied to the dental unit for procedural or non-procedural use