

STN	Mimotelové systémy na čistenie krvi Časť 1: Hemodialyzátory, hemodiafiltre, hemofiltre a hemokoncentrátory (ISO 8637-1: 2017)	STN EN ISO 8637-1 85 6218
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Extracorporeal systems for blood purification - Part 1: Haemodialysers, haemodiafilters, haemofilters and haemoconcentrators (ISO 8637-1:2017)

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

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 06/20

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EUROPEAN STANDARD

EN ISO 8637-1

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EUROPÄISCHE NORM

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Supersedes EN ISO 8637:2014

English Version

**Extracorporeal systems for blood purification - Part 1:
Haemodialysers, haemodiafilters, haemofilters and
haemoconcentrators (ISO 8637-1:2017)**

Systèmes extracorporels pour la purification du sang -
Partie 1: Hémodialyseurs, hémodiafiltres, hémo-filtres
et hémoco concentrateurs (ISO 8637-1:2017)

Kardiovaskuläre Implantate und extrakorporale
Systeme - Teil 1: Hämodialysatoren, Hämodiafilter,
Hämo-filter und Hämo-konzentratoren (ISO 8637-
1:2017)

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

EN ISO 8637-1:2020 (E)

Contents	Page
European foreword.....	3

European foreword

This document (EN ISO 8637-1:2020) has been prepared by Technical Committee ISO/TC 150 "Implants for surgery" in collaboration with Technical Committee CEN/TC 205 "Non-active medical devices" 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of an identical text or by endorsement, at the latest by October 2020, and conflicting national standards shall be withdrawn at the latest by April 2023.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 8637-1:2017 has been approved by CEN as EN ISO 8637-1:2020 without any modification.

INTERNATIONAL STANDARD

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Extracorporeal systems for blood purification —

Part 1: Haemodialysers, haemodiafilters, haemofilters and haemoconcentrators

Systèmes extracorporels pour la purification du sang —

*Partie 1: Hémodialyseurs, hémodiafiltres, hémofiltres et
hémococoncentrateurs*



Reference number
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Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Requirements	4
4.1 Biological safety	4
4.2 Sterility	4
4.3 Non-pyrogenicity	4
4.4 Mechanical characteristics	4
4.4.1 Structural integrity	4
4.4.2 Blood compartment integrity	5
4.4.3 Haemodialyser, haemodiafilter and haemofilter blood compartment ports	5
4.4.4 Haemodialyser and haemodiafilter dialysis fluid compartment ports	8
4.4.5 Haemofilter filtrate ports	8
4.4.6 Haemoconcentrator blood and filtrate ports	8
4.5 Performance characteristics	8
4.5.1 Solute clearance of haemodialysers and haemodiafilters	8
4.5.2 Sieving coefficient of haemodiafilters, haemofilters and haemoconcentrators	9
4.5.3 Ultrafiltration coefficient	9
4.5.4 Volume of the blood compartment	9
4.5.5 Pressure drop of the blood compartment	9
4.6 Expiry date	9
5 Test methods	9
5.1 General	9
5.2 Biological safety	10
5.3 Sterility	10
5.4 Non-pyrogenicity	10
5.5 Mechanical characteristics	10
5.5.1 Structural integrity	10
5.5.2 Blood compartment integrity	11
5.5.3 Haemodialyser, haemodiafilter and haemofilter blood compartment ports	11
5.5.4 Haemodialyser and haemodiafilter dialysis fluid compartment ports	11
5.5.5 Haemofilter filtrate ports	11
5.5.6 Haemoconcentrator blood and filtrate ports	11
5.6 Performance characteristics	13
5.6.1 Clearance	13
5.6.2 Sieving coefficient of haemodiafilters, haemofilters and haemoconcentrators	15
5.6.3 Ultrafiltration coefficient	16
5.6.4 Volume of the blood compartment	17
5.6.5 Pressure drop of the blood compartment	17
5.7 Expiry date	17
6 Labelling	17
6.1 Labelling on the device	17
6.2 Labelling on unit containers	18
6.3 Labelling on the outer containers	18
6.4 Information to be given in the accompanying documentation	19
Bibliography	22

ISO 8637-1:2017(E)**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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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 150, *Implants for surgery*, Subcommittee SC 2, *Cardiovascular implants and extracorporeal systems*.

This first edition of ISO 8637-1:2017 cancels and replaces the third edition of ISO 8637:2010 and ISO 8637:2010/Amd1:2013, which has been technically revised. The following changes have been done:

— [Figure 1](#), [Figure 2](#), and [Figure 3](#) have been revised.

A list of all the parts in the ISO 8637 series can be found on the ISO website.

Introduction

This document is concerned with devices intended for haemodialysis, haemodiafiltration, haemofiltration and haemoconcentration in humans. The requirements specified in this document will help to ensure safety and satisfactory function.

It was not found practicable to specify materials of construction. This document therefore requires only that materials which have been used have been tested and that the methods and results are made available upon request. There is no intention to specify, or to set limits on, the performance characteristics of the devices because such restrictions are unnecessary for the qualified user and would limit the alternatives available when choosing a device for a specific application.

The dimensions of the blood ports and the dialysis fluid or filtrate ports have been specified to ensure compatibility of the device with the extracorporeal blood circuit specified in ISO 8637-2. The design and dimensions have been selected in order to minimize the risk of leakage of blood and the ingress of air.

This document reflects the consensus of physicians, manufacturers and other interested parties for devices that are approved for clinical use. Conformance with this document is voluntary and it does not supersede any national regulation.

Extracorporeal systems for blood purification —

Part 1:

Haemodialysers, haemodiafilters, haemofilters and haemoconcentrators

1 Scope

WARNING — Other requirements and other EU Directives may be applicable to the product(s) falling within the scope of this standard.

This document specifies requirements for haemodialysers, haemodiafilters, haemofilters and haemoconcentrators, hereinafter collectively referred to as “the device”, for use in humans.

This document does not apply to:

- extracorporeal blood circuits;
- plasmafilters;
- haemoperfusion devices;
- vascular access devices;
- blood pumps;
- pressure monitors for the extracorporeal blood circuit;
- air detection devices;
- systems to prepare, maintain or monitor dialysis fluid;
- systems or equipment intended to perform haemodialysis, haemodiafiltration, haemofiltration or haemoconcentration;
- reprocessing procedures and equipment.

NOTE Requirements for the extracorporeal blood circuit for haemodialysers, haemodiafilters and haemofilters are specified in ISO 8637-2.

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 10993-1, *Biological evaluation of medical devices — Part 1: Evaluation and testing within a risk management process*

ISO 10993-4, *Biological evaluation of medical devices — Part 4: Selection of tests for interactions with blood*

ISO 10993-7, *Biological evaluation of medical devices — Part 7: Ethylene oxide sterilization residuals*

ISO 10993-11, *Biological evaluation of medical devices — Part 11: Tests for systemic toxicity*

ISO 8637-1:2017(E)

ISO 80369-7, *Small-bore connectors for liquids and gases in healthcare applications — Part 7: Connectors for intravascular or hypodermic applications*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN