INTERNATIONAL STANDARD

ISO 10079-1

Fourth edition
2022-03

Medical suction equipment —

Part 1: Electrically powered suction equipment

Appareils d'aspiration médicale —

Partie 1: Appareils électriques d'aspiration

Reference number
ISO 10079-1:2022(E)

© ISO 2022



COPYRIGHT PROTECTED DOCUMENT

© ISO 2022

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

© ISO 2022 – All rights reserved

Contents

Page

Foreword ... **iv**

1 Scope ... **1**

2 Normative references ... **1**

3 Terms and definitions ... **1**

4 General requirements ... **1**

5 Materials ... **1**

6 Design requirements ... **1**
6.1 General ... 1
6.2 Protection against ingress of solid objects and liquids ... 2
6.3 Battery powered *suction* equipment ... 2

7 Performance requirements ... **2**
7.1 General ... 2
7.2 Effect of an interruption of power supply on *the vacuum level* and *free air flow* ... 2

8 Additional/alternative requirements for *suction* equipment and *suction tubing* designed for *field use* or *transport use* ... **3**

9 Information to be supplied by the manufacturer ... **3**
9.1 General ... 3
9.2 Instructions for use ... 3

© ISO 2022 – All rights reserved

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).

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).

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.

This document was prepared by Technical Committee ISO/TC 121, *Anaesthetic and respiratory equipment*, Subcommittee SC 8, *Suction devices*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 215, *Respiratory and anaesthetic equipment*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This fourth edition cancels and replaces the third edition (ISO 10079-1:2015), which has been technically revised. It also incorporates the Amendment ISO 10079-1:2015/Amd 1:2018.

The main changes are as follows:

— the general requirements have been removed from this document and replaced with references to ISO 10079-4:2021,

— the list of exemptions has been removed from the scope as it now appears in 10079-4:2021.

A list of all parts in the ISO 10079 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

© ISO 2022 – All rights reserved

Medical suction equipment —

Part 1:
Electrically powered suction equipment

1 Scope

This document specifies safety and performance requirements for electrically powered medical and surgical *suction* equipment. It applies to equipment used in health care facilities such as hospitals, for domiciliary care of patients and for *field use* and *transport use*.

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 10079-4:2021, *Medical suction equipment – Part 4: General requirements*

IEC 60529:1989+AMD1:1999+AMD2:2013, *Degrees of protection provided by enclosures (IP code)*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 10079-4 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/

4 General requirements

The requirements of ISO 10079-4:2021, Clause 4, shall apply.

5 Materials

The requirements of ISO 10079-4:2021, Clause 5, shall apply.

6 Design requirements

6.1 General

The requirements of ISO 10079-4:2021, Clause 6, shall apply.

© ISO 2022 – All rights reserved