Záchranné systémy Preprava inkubátorov Časť 2: Systémové požiadavky 84 7093

Rescue systems - Transportation of incubators - Part 2: System requirements

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. 11/18

Obsahuje: EN 13976-2:2018

Oznámením tejto normy sa od 31.12.2019 ruší STN EN 13976-2 (84 7093) z novembra 2011

EUROPEAN STANDARD NORME EUROPÉENNE

EN 13976-2

EUROPÄISCHE NORM

June 2018

ICS 11.040.10; 11.160

Supersedes EN 13976-2:2011

English Version

Rescue systems - Transportation of incubators - Part 2: System requirements

Systèmes de sauvetage - Transport d'incubateurs -Partie 2: Exigences relatives au système Rettungssysteme - Inkubatortransport - Teil 2: Anforderungen an Transportsysteme

This European Standard was approved by CEN on 4 September 2017.

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This European Standard exists 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 CEN-CENELEC Management Centre has the same status as the official versions.

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EN 13976-2:2018 (E)

Contents		Page
Euro	pean foreword	3
Introduction		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	6
4	General requirements	6
4.1	System combination	
4.2	Suspension/noise/comfort (shock-absorption)	6
4.3	Temperature conditions	
4.4	Ingress of liquids	7
4.5	Vibration	7
4.6	Mechanical integrity	7
4.7	EMC	7
4.8	Mass	7
4.9	Electricity	8
4.10	Fixation of component parts	8
4.11	Infant restraint system	8
4.12	Modifications	8
Anne	ex A (informative) Ergonomics	9
A.1	Space	9
A.2	Loading	9
Anne	ex ZA (informative) Relationship between this European Standard and the Ess	ential
	Requirements of Directive 93/42/EEC [OJ L 169] aimed to be covered	
Bibli	ography	11

European foreword

This document (EN 13976-2:2018) has been prepared by Technical Committee CEN/TC 239 "Rescue systems", 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of an identical text or by endorsement, at the latest by December 2018, and conflicting national standards shall be withdrawn at the latest by December 2019.

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

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

This document supersedes EN 13976-2:2011.

The following points represent the most important technical changes in the revision:

- a) clarified unclear issues about mass of the transport incubator system;
- b) a requirement for the infant restraint system was included.

EN 13976 consists of the following parts, under the general title *Rescue systems* — *Transportation of incubators*:

- Part 1: Interface requirements
- Part 2: System requirements

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

EN 13976-2:2018 (E)

Introduction

This European Standard gives the requirements for a transport incubator system that will ensure its interchangeability as well as its safe and effective function in different vehicles or crafts. Such systems are essential in allowing the uninterrupted care of infants.

Interface requirements are given in part 1 (EN 13976-1).

1 Scope

This European Standard specifies the requirements for a transport incubator system needed for care and treatment of infants, used in emergency or planned transport.

It specifies the particular requirements needed to ensure the proper function of equipment during transportation (e.g. monitors, respirators, infusion pumps, extra corporeal lung support- (ECLS-) systems, gas supply) and to provide safe transportation for infants and operators.

This European Standard also specifies that the equipment or systems shall not interfere with the functions of the road and air ambulance providing transportation.

This European Standard does not give requirements for the vehicles, crafts, devices or incubators as such, these requirements are found in other standards. However, transport incubators are normally combined with other equipment to form a "transport incubator system".

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 1789:2007+A2:2014, Medical vehicles and their equipment — Road ambulances

EN 1865-1:2010+A1:2015, Patient handling equipment used in road ambulances — Part 1: General stretcher systems and patient handling equipment

EN 1865-2:2010+A1:2015, Patient handling equipment used in road ambulances — Part 2: Power assisted stretcher

EN 13718-1:2014, Medical vehicles and their equipment — Air ambulances — Part 1: Requirements for medical devices used in air ambulances

EN 13718-2:2015, Medical vehicles and their equipment — Air ambulances — Part 2: Operational and technical requirements for air ambulances

EN 13976-1:2018, Rescue systems — Transportation of incubators — Part 1: Interface requirements

EN 60529:1991, Degrees of protection provided by enclosures (IP Code) (IEC 60529:1989 + A1:1999 + A2:2013)

EN 60601-1:2006, Medical electrical equipment — Part 1: General requirements for basic safety and essential performance (IEC 60601-1:2005+Cor.:2006+Cor.:2007+A1:2012)

EN 60601-1-2:2015, Medical electrical equipment — Part 1-2: General requirements for basic safety and essential performance — Collateral Standard: Electromagnetic disturbances — Requirements and tests (IEC 60601-1-2:2014)

 1 As impacted by EN 60529:1991/corrigendum May 1993, EN 60529:1991/A1:2000, EN 60529:1991/A2:2013 and EN 60529:1991/AC:2016-2.

² As impacted by EN 60601-1:2006/corrigendum Mar. 2010, EN 60601-1:2006/A1:2013, EN 60601-1:2006/A1:2013/AC:2014 and EN 60601-1:2006/A12:2014

EN 13976-2:2018 (E)

EN 60601-1-12:2015, Medical electrical equipment — Part 1-12: General requirements for basic safety and essential performance — Collateral Standard: Requirements for medical electrical equipment and medical electrical systems intended for use in the emergency medical services environment (IEC 60601-1-12:2014)

EN 60601-2-20:2009, Medical electrical equipment — Part 2-20: Particular requirements for the basic safety and essential performance of infant transport incubators (IEC 60601-2-20:2009)

European Aviation Safety Agency (EASA) Certification Specifications CS-23, *Normal, Utility, Aerobatic, and Commuter Category Aeroplanes*³

European Aviation Safety Agency (EASA) Certification Specifications CS-25, Large Aeroplanes³

European Aviation Safety Agency (EASA) Certification Specifications CS-27, Small Rotorcraft³

European Aviation Safety Agency (EASA) Certification Specifications CS-29, Large Rotorcraft³

RTCA DO 160G:2010, Radio Technical Commission for Aeronautics — Environmental conditions and test procedures for airborne equipment⁴

koniec náhľadu – text ďalej pokračuje v platenej verzii STN

6

³ EASA constitutes the European governments transport aircraft airworthiness approval Regulations, and can be obtained from: European Aviation Safety Agency (EASA), Otto Platz 1, Postfach 101253, D-50452 Cologne, Germany, or at www.easa.europa.eu.

⁴ Publication available at the RTCA Secretariat, Suite 500, 1425 K Street, N.W. Washington DC, 20005, USA http://www.rtca.org/