Emergency safety showers - Part 2: Plumbed-in eye wash units

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EESTI STANDARDI EESSÕNA **NATIONAL FOREWORD**

Käesolev Eesti standard EVS-EN 15154-2:2006 sisaldab Euroopa standardi EN 15154-2:2006 ingliskeelset teksti. Käesolev dokument on jõustatud 24.11.2006 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes. Standard on kättesaadav Eesti standardiorganisatsioonist.	This Estonian standard EVS-EN 15154-2:2006 consists of the English text of the European standard EN 15154-2:2006. This document is endorsed on 24.11.2006 with the notification being published in the official publication of the Estonian national standardisation organisation. The standard is available from Estonian standardisation organisation.

Käsitlusala: This document is a product specification, giving performance requirements for emergency safety eye wash units connected to the water supply. It is applicable to plumbed-in eye wash units only. Requirements are given in respect of the performance, installation, adjustment and marking of the eye wash units, as well as installation, operation and maintenance instructions to be given by the manufacturer.	**Scope:** This document is a product specification, giving performance requirements for emergency safety eye wash units connected to the water supply. It is applicable to plumbed-in eye wash units only. Requirements are given in respect of the performance, installation, adjustment and marking of the eye wash units, as well as installation, operation and maintenance instructions to be given by the manufacturer.

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Emergency safety showers - Part 2: Plumbed-in eye wash units

Douches de sécurité - Partie 2 : Unités de lavage d'yeux raccordées au réseau d'eau

Sicherheitsnotduschen - Teil 2: Augenduschen mit Wasseranschluss

This European Standard was approved by CEN on 19 August 2006.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

EUROPEAN COMMITTEE FOR STANDARDIZATION
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Foreword

This document (EN 15154-2:2006) has been prepared by Technical Committee CEN/TC 332 “Laboratory equipment”, 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 March 2007, and conflicting national standards shall be withdrawn at the latest by March 2007.

EN 15154 consists of the following parts, under the general title *Emergency safety showers*

- Part 1: Plumbed-in body showers for laboratories
- Part 2: Plumbed-in eye wash units
- Part 3: Portable body showers (in preparation)
- Part 4: Portable eye wash units (in preparation)
- Part 5: Plumbed-in body showers for production facilities (in planning)

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

Introduction

Plumbed-in eye wash units are designed and intended to be installed in close range of persons working in a potentially hazardous area. The main purpose of these devices is to immediately deliver flushing fluid in sufficient volume to flush the eyes following exposure to injurious substances or heat. With this accomplished the injured person can proceed to medical care.

1 Scope

This document is a product specification, giving performance requirements for emergency safety eye wash units connected to the water supply. It is applicable to plumbed-in eye wash units only.

Requirements are given in respect of the performance, installation, adjustment and marking of the eye wash units, as well as installation, operation and maintenance instructions to be given by the manufacturer.

NOTE Attention is drawn to national regulations which may apply in respect of the installation and use of eye wash units.

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 3864-1, *Graphical symbols — Safety colours and safety signs — Part 1: Design principles for safety signs in workplaces and public areas*

3 Terms and definitions

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

3.1
emergency safety eye wash unit
device specially designed and intended to deliver a flushing fluid to irrigate and flush the eyes and to sufficiently wash away contaminants or to dilute them, rendering them harmless

3.2
plumbed-in emergency safety eye wash unit
emergency safety eye wash unit that is permanently connected to a continuous water supply

4 Performance

4.1 Flow rate of water

Plumbed-in eye wash units shall be designed to deliver a constant flow rate of minimum 6 l/min at a flow pressure to be specified by the manufacturer and to be measured where the eye wash unit is connected to the water system. Eye wash units shall be capable of delivering this supply for a minimum of 15 min.

The velocity of the water shall be low enough to be non-injurious to the user.

Nozzle(s) shall be protected from airborne contaminants. Whatever means is used to afford such protection, its removal shall not require a separate motion by the user when activating the eye wash unit.

4.2 Jet height

The jet of water supplied by the nozzle(s) shall spray at a minimum height of 100 mm and may spray at a maximum height of 300 mm both measured from the nozzle centre, before tipping over or collapsing.