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**Masinate ohutus. Õhu kaudu levivate ohtlike ainete emissiooni hindamine. Osa 7: Massi järgi eraldamise efektiivsus, jaotuskanalitega väljumisava KONSOLIDEERITUD TEKST**

Safety of machinery - Evaluation of the emission of airborne hazardous substances - Part 7: Separation efficiency by mass, ducted outlet CONSOLIDATED TEXT

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 1093-7:1999+A1:2008 sisaldb Euroopa standardi EN 1093-7:1998+A1:2008 ingliskeelset teksti.	This Estonian standard EVS-EN 1093-7:1999+A1:2008 consists of the English text of the European standard EN 1093-7:1998+A1:2008.
Standard on kinnitatud Eesti Standardikeskuse 18.08.2008 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.	This standard is ratified with the order of Estonian Centre for Standardisation dated 18.08.2008 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.
Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kätesaadavaks tegemise kuupäev on 16.07.2008.	Date of Availability of the European standard text 16.07.2008.
Standard on kätesaadav Eesti standardiorganisatsionist.	The standard is available from Estonian standardisation organisation.

**ICS** 13.040.40

**Võtmesõnad:** efektiivsus, emissioon, eraldamismeetodid, gaasipuhastusseadmed, mõõtmine, ohtlikud ained, seadmete ohutus, tolmupüürurid, õhu saastamine, õhupuhastusseadmed

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**EUROPEAN STANDARD**  
**NORME EUROPÉENNE**  
**EUROPÄISCHE NORM**

**EN 1093-7:1998+A1**

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English Version

**Safety of machinery - Evaluation of the emission of airborne hazardous substances - Part 7: Separation efficiency by mass, ducted outlet**

Sécurité des machines - Evaluation de l'émission de substances dangereuses véhiculées par l'air - Partie 7:  
Efficacité massique de séparation, sortie raccordée

Sicherheit von Maschinen - Bewertung der Emission von luftgetragenen Gefahrstoffen - Teil 7: Masseabscheidegrad, definierter Auslass

This European Standard was approved by CEN on 4 September 1998 and includes Amendment 1 approved by CEN on 8 June 2008.

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 CEN Management Centre 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 CEN Management Centre has the same status as the official versions.

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## Foreword

This document (EN 1093-7:1998+A1:2008) has been prepared by Technical Committee CEN/TC 114 "Safety of machinery", 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 January 2009, and conflicting national standards shall be withdrawn at the latest by December 2009.

This document includes Amendment 1, approved by CEN on 2008-06-08.

This document supersedes EN 1093-7:1998.

The start and finish of text introduced or altered by amendment is indicated in the text by tags **A<sub>1</sub>** **A<sub>1</sub>**.

This European Standard 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).

**A<sub>1</sub>** For relationship with EU Directive(s), see informative Annexes ZA and ZB, which are integral parts of this document. **A<sub>1</sub>**

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, 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

This European Standard is a type B standard as stated in ENV 1070:1993.

This European standard is a part of EN 1093. Part 1 of this standard presents a selection of different methods for the evaluation of the emission of airborne hazardous substances from machines.

### 1 Scope

This European Standard specifies a test rig method for the measurement of the separation efficiency by mass of air cleaning systems, operating under defined conditions. The method shall apply to systems that clean air of aerosols (smoke, dust, fume, mist), vapour or gas with defined air inlet and air outlet which can be connected to measurement ducts.

Measurement of the separation efficiency by mass of an air cleaning system for an intended use can serve for the:

- a) evaluation of the performance of an air cleaning system;
- b) evaluation of the improvement of the air cleaning system;
- c) comparison of air cleaning systems;
- d) ranking of air cleaning systems according to their separation efficiency by mass;
- e) determination of the state of the art of air cleaning systems of the same intended use with respect to their separation efficiency by mass.

### 2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 292-1:1991, Safety of machinery - Basic concepts, general principles for design - Part 1: Basic terminology, methodology.

EN 292-2:1991, Safety of machinery - Basic concepts, general principles for design - Part 2: Technical principles and specifications.

EN 292-2/A1:1995, Safety of machinery - Basic concepts, general principles for design - Part 2: Technical principles and specifications; Amendment A1.

ENV 1070:1993, Safety of machinery – Terminology.

EN 1093-1, Safety of machinery - Evaluation of the emission of airborne hazardous substances - Part 1: Selection of test methods.