



NSAI
Standards

Irish Standard
I.S. EN 1093-7:1998+A1:2008

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

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I.S. EN 1093-7:1998+A1:2008

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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.

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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of an identical text or by endorsement, at the latest by January 2009, and conflicting national standards shall be withdrawn at the latest by December 2009.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 **A1** **A1**.

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).

A1 For relationship with EU Directive(s), see informative Annexes ZA and ZB, which are integral parts of this document. **A1**

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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.

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