

Ventilation for buildings — Performance testing of components/products for residential ventilation —

**Part 8: Performance testing of
un-ducted mechanical supply and
exhaust ventilation units (including
heat recovery) for mechanical
ventilation systems intended for a
single room**

The European Standard EN 13141-8:2006 has the status of a
British Standard

ICS 91.140.30

National foreword

This British Standard is the official English language version of EN 13141-8:2006.

The UK participation in its preparation was entrusted to Technical Committee RHE/2, Ventilation for buildings, heating and hot water services, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this committee can be obtained on request to its secretary.

Cross-references

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Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 18, an inside back cover and a back cover.

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English Version

Ventilation for buildings - Performance testing of
components/products for residential ventilation - Part 8:
Performance testing of un-ducted mechanical supply and
exhaust ventilation units (including heat recovery) for
mechanical ventilation systems intended for a single room

Ventilation des bâtiments - Essais des performances des
composants/produits pour la ventilation des logements -
Partie 8 : Essais des performances des bouches de
soufflage et d'extraction (y compris la récupération de
chaleur) pour les systèmes de ventilation mécaniques non
raccordés prévus pour une pièce

Lüftung von Gebäuden - Leistungsprüfung von
Bauteilen/Produkten für die Lüftung von Wohnungen - Teil
8: Leistungsprüfung von mechanischen Zuluft- und
Ablufteinheiten ohne Luftführung (einschließlich
Wärmerückgewinnung) für ventilatorgestützte
Lüftungsanlagen von einzelnen Räumen

This European Standard was approved by CEN on 20 January 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.



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Foreword

This European Standard (EN 13141-8:2006) has been prepared by Technical Committee CEN/TC 156 “Ventilation for buildings”, the secretariat of which is held by BSI.

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 September 2006, and conflicting national standards shall be withdrawn at the latest by September 2006.

The European Standard is one of a series of standards on residential ventilation. The performance characteristics of the components/products for residential ventilation are given in EN 13142.

The position of this European Standard in the field of standards for the mechanical building services is shown in Figure 1.

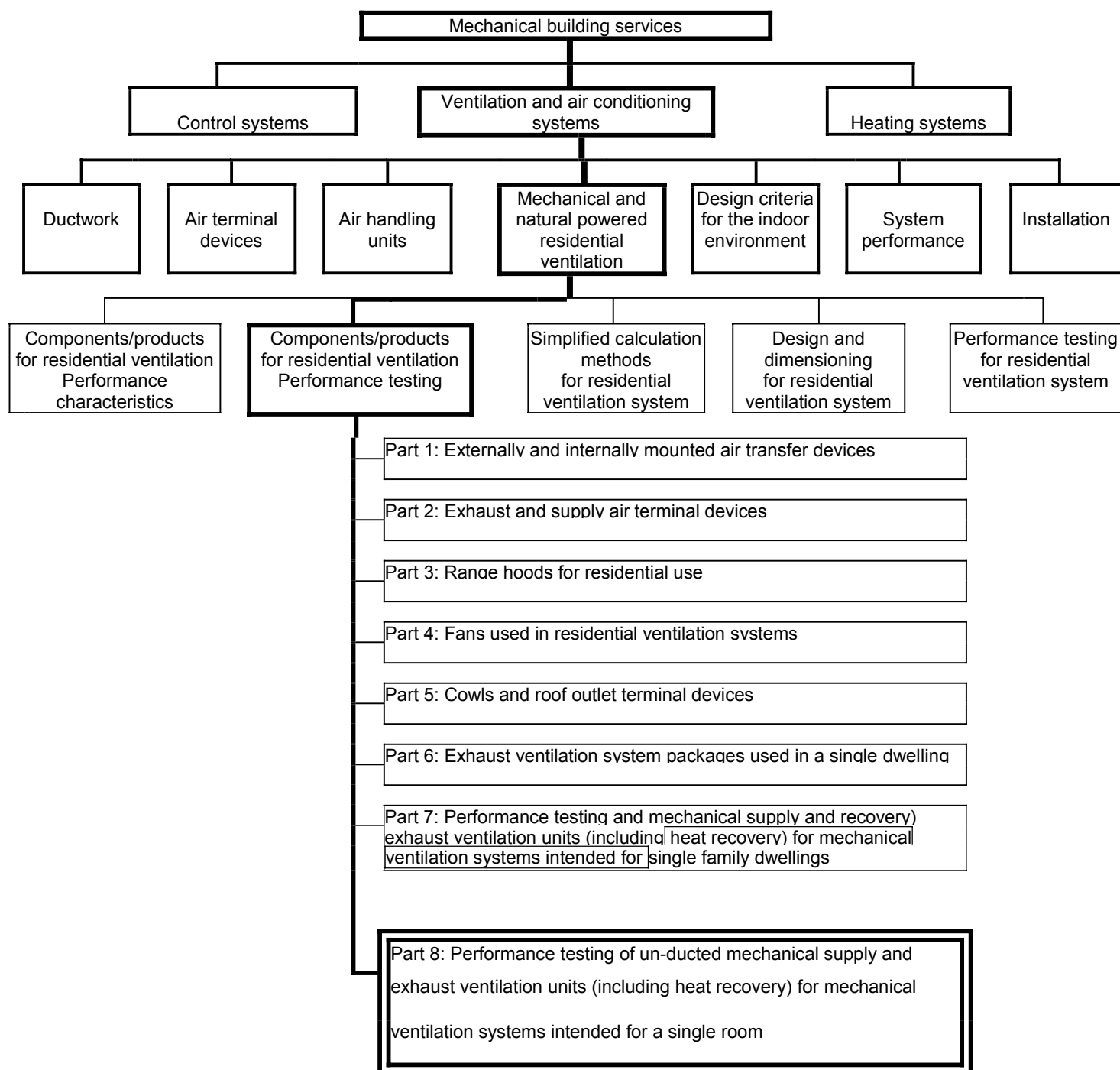


Figure 1 — Position of EN 13141-8 in the field of the mechanical building services

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Introduction

This European Standard specifies methods for the performance testing of components used in residential ventilation systems to establish the main characteristics as identified in EN 13142.

Part 1 and Part 2 relate respectively to the externally/internally mounted air transfer devices and the exhaust/supply air terminal devices, which are used in the residential ventilation.

Part 3 considers performance testing of range hoods for residential use, and is based on an IEC standard.

Part 4 consists in some special measurement conditions for fans to be used in the residential systems, when applying the general ISO methods (as ISO 5801).

Part 5 gives test methods for cowls and other roof outlets.

Part 6 gives test methods for exhaust ventilation system packages used in a single dwelling.

Part 7 gives test methods for supply and exhaust ventilation unit used in a single dwelling.

Part 8 gives test methods for un-ducted supply and exhaust ventilation unit used in a single room.

The standard incorporates many references to other European and International Standards, especially on characteristics other than the aerodynamic characteristics, for instance on acoustic characteristics.

In most cases some additional tests or some additional conditions are given for the specific use in residential ventilation systems.

The standard can be used for the following applications:

- ☐ laboratory testing;
- ☐ attestation purposes.