



NSAI
Standards

Irish Standard
I.S. EN 16430-2:2014

Fan assisted radiators, convectors and trench convectors - Part 2: Test method and rating for thermal output

I.S. EN 16430-2:2014

Incorporating amendments/corrigenda/National Annexes issued since publication:

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This document is based on:

EN 16430-2:2014

Published:

2014-12-17

This document was published under the authority of the NSAI and comes into effect on:

2015-01-19

ICS number:

91.140.10

NOTE: If blank see CEN/CENELEC cover page

NSAI
1 Swift Square,
Northwood, Santry
Dublin 9

T +353 1 807 3800
F +353 1 807 3838
E standards@nsai.ie
W NSAI.ie

Sales:
T +353 1 857 6730
F +353 1 857 6729
W standards.ie

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EUROPEAN STANDARD

EN 16430-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2014

ICS 91.140.10

English Version

Fan assisted radiators, convectors and trench convectors - Part 2: Test method and rating for thermal output

Radiateurs assistés par ventilateur, convecteurs et
convecteurs de caniveaux - Partie 2: Méthode d'essais et
d'évaluation de la puissance thermique

Gebläseunterstützte Heizkörper, Konvektoren und
Unterflurkonvektoren - Teil 2: Prüfverfahren und Bewertung
der Wärmeleistung

This European Standard was approved by CEN on 9 November 2014.

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-CENELEC 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-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of 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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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Foreword

This document (EN 16430-2:2014) has been prepared by Technical Committee CEN/TC 130 "Space heating appliances without integral heat sources", the secretariat of which is held by UNI.

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 June 2015 and conflicting national standards shall be withdrawn at the latest by June 2015.

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

The European Standard "Fan assisted radiators, convectors and trench convectors" consists of the following parts:

- Part 1: Technical specifications and requirements
- Part 2: Test method and rating for thermal output
- Part 3: Test method and rating for cooling capacity

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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

EN 16430-2:2014 (E)

1 Scope

This European Standard applies to the thermal output testing of fan assisted radiators, convectors and trench convectors which are factory assembled or kits, i.e.

- fan assisted radiators and convectors, provided the heater has a dedicated fan or fans;
- trench convectors with and without fan(s), provided the heater and the fan(s) are dedicated;
- ventilation radiators and convectors.

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 442-2, *Radiators and convectors - Part 2: Test methods and rating*

EN 636, *Plywood - Specifications*

EN ISO/IEC 17025, *General requirements for the competence of testing and calibration laboratories (ISO/IEC 17025)*

3 Terms and definitions

For the purposes of this document the terms and definitions given in EN 442-2 and the following apply.

3.1 trench convectors
convectors installed in a trench in the floor mostly in front of glass facades, including the covering of the trench

3.2 fan assisted radiators and convectors
radiators and convectors according to EN 442-2 and trench convectors according to 3.1 equipped with fans to increase the convective thermal output/ cooling capacity of the radiator, convector or trench convector

3.3 ventilation radiators and convectors
radiators or convectors, which, apart from heating rooms normally, also heat the incoming air (outside air)

Note 1 to entry: In this context, the air is led directly to the radiator and, once heated by the radiator, fed to the room. The controlled air feed is performed mechanically, either using a fan in the primary air system or through an exhaust air system.

3.4 primary air unit
unit connected to the radiator, convector or trench convector which supplies primary air to the room, preheated or pre-cooled by the radiator, convector or trench convector

3.5 basic units
regularly repeated sections of the radiator/convector equipped with fans

3.6 extension units
parts of the fan assisted radiator/convector in addition to the basic units which are not equipped with a fan

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