

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

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 16430-2:2015 sisaldab Euroopa standardi EN 16430-2:2014 ingliskeelset teksti.	This Estonian standard EVS-EN 16430-2:2015 consists of the English text of the European standard EN 16430-2:2014.
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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.

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COMITÉ EUROPÉEN DE NORMALISATION
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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of an identical text or by endorsement, at the latest by June 2015 and conflicting national standards shall be withdrawn at the latest by June 2015.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.

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