



NSAI
Standards

Irish Standard
I.S. EN 1151-1:2006

Pumps - Rotodynamic pumps - Circulation pumps having a rated power input not exceeding 200 W for heating installations and domestic hot water installations - Part 1: Non-automatic circulation pumps, requirements, testing, marking

I.S. EN 1151-1:2006

Incorporating amendments/corrigenda issued since publication:

EN 1151-1:2006/AC:2007

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard – national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation - recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

This document replaces:

EN 1151:1999

This document is based on:

EN 1151-1:2006

EN 1151:1999

Published:

19 April, 2006

17 February, 1999

This document was published under the authority of the NSAI and comes into effect on:
3 July, 2006

ICS number:
23.080

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English version
Version Française
Deutsche Fassung

Pumps - Rotodynamic pumps - Circulation pumps having a rated power input not exceeding 200 W for heating installations and domestic hot water installations - Part 1: Non-automatic circulation pumps, requirements, testing, marking

Pompes - Pompes rotodynamiques - Circulateurs de puissance absorbée n'excédant pas 200 W, destinés aux installations de chauffage central et d'eau chaude sanitaire domestique - Partie 1: Circulateurs non auto-régulés, exigences, essais, marquage

Pumpen - Kreiselpumpen - Umwälzpumpen mit elektrischer Leistungsaufnahme bis 200 W für Heizungsanlagen und Brauchwassererwärmungsanlagen für den Hausgebrauch - Teil 1: Nicht-automatische Umwälzpumpen, Anforderungen, Prüfung, Kennzeichnung

This corrigendum becomes effective on 24 October 2007 for incorporation in the three official language versions of the EN.

Ce corrigendum prendra effet le 24 octobre 2007 pour incorporation dans les trois versions linguistiques officielles de la EN.

Die Berichtigung tritt am 24. Oktober 2007 zur Einarbeitung in die drei offiziellen Sprachfassungen der EN in Kraft.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

I.S. EN 1151-1:2006

EN 1151-1:2006/AC:2007 (E/F/D)

English version

In the Foreword, replace

"This document, together with EN 1151-1:2006, supersedes EN 1151:1999."

with

"This document supersedes EN 1151:1999."

Version française

Dans l'avant-propos, remplacer

"Le présent document remplace, avec l'EN 1151-1:2006, l'EN 1151:1999."

par

"Le présent document remplace l'EN 1151:1999."

Deutsche Fassung

Im Vorwort, ersetze

"Zusammen mit EN 1151-1:2006 ersetzt dieses Dokument EN 1151:1999."

durch

"Dieses Dokument ersetzt EN 1151:1999."

English Version

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Pumpen - Kreiselpumpen - Umwälzpumpen mit elektrischer Leistungsaufnahme bis 200 W für Heizungsanlagen und Brauchwassererwärmungsanlagen für den Hausgebrauch - Teil 1: Nicht-automatische Umwälzpumpen, Anforderungen, Prüfung, Kennzeichnung

This European Standard was approved by CEN on 27 February 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.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This document (EN 1151-1:2006) has been prepared by Technical Committee CEN/TC 197 "Pumps", the secretariat of which is held by AFNOR.

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

This document, together with EN 1151-2:2006, supersedes EN 1151:1999.

EN 1151 consists of the following parts under the general title *Pumps — Rotodynamic pumps — Circulation pumps having a rated power input not exceeding 200 W for heating installations and domestic hot water installations*:

-Part 1: Non-automatic circulation pumps, requirements, testing, marking

-Part 2: Noise test code (vibro-acoustics) for measuring structure and fluid-borne noise

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.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: 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.

Introduction

For the purpose of this document, circulation pumps having a rated power input ≤ 200 W are generally considered for domestic use and circulation pumps having a rated power input > 200 W are considered for professional/commercial use.

1 Scope

This part of EN 1151 establishes general principles for the construction, use and testing of circulation pumps of the glandless type, having a rated power input $P_1 \leq 200$ W, intended to be used in heating installations and domestic hot water service installations.

NOTE The requirements of this document may apply to circulation pumps for domestic use having a rated power input above 200 W up to and including 300 W. However, this decision depends on agreement between the supplier and purchaser.

Circulation pumps with a rated power input above 200 W for professional/commercial use are excluded from the scope of this document.

This document applies to:

- a) A.C. circulation pumps having a rated power input $P_1 \leq 200$ W intended for use in ordinary heating water systems with a maximum permissible inlet temperature of $T_F \leq 110$ °C and a maximum outlet working pressure $p_{2\max o} \leq 6$ bar.
- b) A.C. circulation pumps having a rated power input $P_1 \leq 200$ W intended for use in domestic hot water installations with a permissible inlet temperature of $T_F \leq 65$ °C and a maximum outlet working pressure $p_{2\max o} \leq 10$ bar.

This document applies to circulation pumps, which are manufactured after the date of issue of this document.

This document covers the performance for circulation pumps. All known hazards which are likely to occur at normal installation and operation are covered by the European Standards EN 809 and EN 60335-2-51.

As regards safety for electrotechnical parts of circulation pumps, EN 60335-2-51 applies.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 1151-2, Pumps — Rotodynamic pumps — *Circulation pumps having a rated power input not exceeding 200 W for heating installations and domestic hot water installations — Part 2: Noise test code (vibro-acoustics) for measuring structure- and fluid-borne noise*

EN 60034-1, *Rotating electrical machines - Part 1: Rating and performance (IEC 60034-1:2004)*

EN 60335-2-51:2003, *Household and similar electrical appliances — Safety — Part 2-51: Particular requirements for stationary circulation pumps for heating and service water installations (IEC 60335-2-51:2002)*

EN ISO 12100-2:2003, *Safety of machinery — Basic concepts, general principles for design — Part 2: Technical principles (ISO 12100-2:2003)*

HD 472 S1:1989, *Nominal voltages for low voltage public electricity supply systems*

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