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BS EN 13732:2013



BSI Standards Publication

Food processing machinery — Bulk milk coolers on farms — Requirements for performance, safety and hygiene

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This British Standard is the UK implementation of EN 13732:2013. It supersedes BS EN 13732:2002+A2:2009 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee MCE/3/5, Food industry machines.

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

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Food processing machinery - Bulk milk coolers on farms - Requirements for performance, safety and hygiene

Machines pour les produits alimentaires - Refroidisseurs de
lait en vrac à la ferme - Prescriptions pour les
performances, la sécurité et l'hygiène

Nahrungsmittelmaschinen - Behältermilchkühlanlagen für
Milcherzeugerbetriebe - Anforderungen an Leistung,
Sicherheit und Hygiene

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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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Foreword

This document (EN 13732:2013) has been prepared by Technical Committee CEN/TC 153 "Machinery intended for use with foodstuffs and feed", 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of an identical text or by endorsement, at the latest by January 2014, and conflicting national standards shall be withdrawn at the latest by January 2014.

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.

This document supersedes EN 13732:2002+A2:2009.

This document 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).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

The main changes compared to the previous edition are the following ones:

- a) specification of the scope:
 - 1) pre-cooled milk is taken into account;
 - 2) other energy than electrical energy as well as the pressure aspect of vacuum tanks are excluded;
- b) updating of normative references;
- c) specification of the electrical requirements (5.3 was revised and Annexes B and C were added);
- d) addition of subclause 7.2 "Warning signs";
- e) specification of the noise test code;
- f) editorial modifications.

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.

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Introduction

This document is a type C standard as stated in EN ISO 12100.

The machinery concerned and the extent to which hazards, hazardous situations and events are covered are indicated in the scope of this document.

When provisions of this type C standard are different from those which are stated in type A or B standards, the provisions of this type C standard take precedence over the provisions of the other standards, for machines that have been designed and built according to the provisions of this type C standard.

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1 Scope

1.1 This European Standard specifies requirements for design, performance, safety and hygiene of refrigerated bulk milk coolers and the related methods of test.

This standard deals with all significant hazards, hazardous situations and events relevant to bulk milk coolers on farms, when they are used as intended and under the conditions of misuse which are reasonably foreseeable by the manufacturer (see Clause 4).

It applies to refrigerated bulk milk tanks with air cooled condensing units and automatic control intended for installation on farms or at milk collecting points. It applies to tanks for two milkings (24 h), four milkings (48 h) and six milkings (72 h), in which the cooling takes place totally (non-pre-cooled milk) or partially (in case of pre-cooled milk) within the tank.

Performance requirements in 5.5.1.2.1 and 5.5.1.2.2 do not apply to tanks in combination with instant cooling or in association with a continuous system of milking (e.g. milking with robot).

1.2 This European Standard does not cover:

- mobile tanks;
- tanks intended to be tilted for drainage;
- equipment for delivering the milk to the tank;
- equipment for pre-cooling or instant cooling of the milk;
- the hazards due to the use of other energy than electrical energy;
- pressure aspect of vacuum tanks.

1.3 Noise is not considered to be a significant hazard, but a relevant one for bulk milk coolers. This standard therefore includes information in 7.1 and in Annex A concerning the manufacturer's declaration of the noise emission level of the cooler.

1.4 This standard does not cover the calibration requirements for the tank to be used as a system for payment purpose.

1.5 This standard is not applicable to bulk milk coolers on farms which are manufactured before the date of its publication as an EN.