SLOVENSKI STANDARD
oSIST prEN 12897-1:2026

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Oskrba z vodo - Posredno ogrevani neprezračeni (zaprti) rezervoarji za toplo vodo - 1. del: Splošne zahteve in splošne preskusne metode

Water supply - Indirectly heated unvented (closed) hot water storage tanks - Part 1: General specifications and common test methods

Wasserversorgung - Mittelbar beheizte, unbelüftete (geschlossene) Speicher-Wassererwärmer - Teil 1: Allgemeine Anforderungen und übliche Prüfverfahren

Alimentation en eau - Ballons d'eau chaude à chauffage indirect non ouverts à l'air libre (fermés) - Partie 1 : Spécifications générales et méthodes d'essai communes

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91.140.65 Oprema za ogrevanje vode Water heating equipment

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EUROPEAN STANDARD

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English Version

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This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 164.

If this draft becomes a European Standard, 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.

This draft European Standard was established by CEN 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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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Warning : This document is not a European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.

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

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European foreword

This document (prEN 12897-1:2026) has been prepared by Technical Committee CEN/TC 164 “Water supply”, the secretariat of which is held by AFNOR.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 12897:2016+A1:2020.

The main changes compared to the previous edition are listed below:

— title and standard reference changed to enable a standards series;

— revision of verbal forms for expressions of provisions;

— revision of Annex ZA and Annex ZB.

The EN 12897 series, under the general title *Water supply — Indirectly heated unvented (closed) hot water storage tanks*, consists of the following parts:

— *Part 1: General specifications and common test methods*

— *Part 2: Corrosion protection by enamelling and cathodic protection — Requirements and testing*

This document has been prepared under a standardization request addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative Annex ZA and Annex ZB, which are an integral part of this document.

Introduction

In respect of potential adverse effects on the quality of water intended for human consumption caused by the product covered by this document:

a) This document provides no information as to whether the product may be used without restriction in any of the Member States of the EU or EFTA.

b) It should be noted that, while awaiting the adoption of the verifiable European criteria, existing national regulations concerning the use and/or the characteristics of this product remain in force.

1 Scope

This document specifies the general specifications, constructional requirements and common test methods for indirectly heated, unvented (closed) hot water storage tanks of up to 2 000 l volume suitable for connection to a water supply at a pressure between 0,05 MPa and 1,0 MPa (0,5 bar and 10 bar), and fitted with control and safety devices designed to prevent the temperature of the stored drinking water from reaching 95 °C.

Whilst storage water heaters intended primarily for direct heating are not covered by this document, it includes the possible provision of backup immersion heaters.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 1487:2014, *Building valves — Hydraulic safety groups — Tests and requirements*

EN 1488:2021, *Building valves — Expansion groups — Tests and requirements*

EN 1489:2000, *Building valves — Pressure safety valves — Tests and requirements*

EN 1490:2000, *Building valves — Combined temperature and pressure relief valves — Tests and requirements*

EN 1491:2022, *Building valves — Expansion valves — Tests and requirements*

EN 1567:1999, *Building valves — Water pressure reducing valves and combination water pressure reducing valves — Requirements and tests*

EN 1717:2025, *Protection against pollution of water intended for human consumption in potable water installations and general requirements for devices to prevent pollution by backflow*

EN 13959:2004, *Anti-pollution check valves — DN 6 to DN 250 inclusive family E, type A, B, C and D*

EN 15332:2019, *Heating boilers — Energy assessment of hot water storage tanks*

EN IEC 60730-2-9:2019, [1] *Automatic electrical controls — Part 2-9: Particular requirements for temperature sensing controls*

3 Terms, definitions and symbols

For the purposes of this document, the following terms, definitions and symbols apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp/

— IEC Electropedia: available at https://www.electropedia.org/

[1] As impacted by EN IEC 60730-2-9:2019/A2:2020.

3.1 Terms and definitions

3.1.1
indirectly heated unvented hot water storage tank
indirectly heated closed hot water storage tank
vessel, complete with heat exchanger (primary heater) with the intended use of heating and storage of drinking water where the contents are not vented to atmosphere

3.1.2
rated volume
rated storage volume
V
volume of a hot water storage tank or a storage water heater, expressed in litres

Note 1 to entry Volume of the hot water storage tank as specified in the manufacturer's documentation.

3.1.3
actual volume
measured volume
measured volume of the hot water storage tank, expressed in litres

3.1.4
water side
part of the hot water storage tank directly in contact with the drinking water

3.1.5
heating side
parts of the hot water storage tank which contain the heating medium

3.1.6
maximum design pressure
rated pressure
maximum pressure to which the hot water storage tank is designed to be subjected in use

3.1.7
maximum inlet pressure
specified maximum cold water inlet pressure for the hot water storage tank

3.1.8
maximum safety temperature
maximum temperature that the stored water can reach under a fault condition

3.1.9
maximum operating temperature
maximum temperature that can be set for normal operation

3.1.10
primary heater
heat exchanger system fitted to the hot water storage tank through which a heating medium (such as water from a boiler) flows to heat the stored drinking water