

STN P	Vykurovacie kotly na plynné palivá Časť 3-3: 100 % vodík Rozšírenie EN 15502-2-1: 2022	STN P CEN/TS 15502-3-3 07 0253
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Gas-fired central heating boilers - Part 3-3: 100 % Hydrogen - Expansion of EN 15502-2-1:2022

Táto norma obsahuje anglickú verziu európskej normy.

This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 07/26

Táto predbežná slovenská technická norma je určená na overenie. Prípadné pripomienky pošlite do mája 2028 Úradu pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky.

Obsahuje: CEN/TS 15502-3-3:2026

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Slovenská technická norma a technická normalizačná informácia je chránená zákonom č. 60/2018 Z. z. o technickej normalizácii v znení neskorších predpisov.

TECHNICAL SPECIFICATION
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CEN/TS 15502-3-3

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English Version

**Gas-fired central heating boilers - Part 3-3: 100 %
Hydrogen - Expansion of EN 15502-2-1:2022**

Heizkessel für gasförmige Brennstoffe - Teil 3-3: 100%
Wasserstoff - Erweiterung der EN 15502-2-1:2022

This Technical Specification (CEN/TS) was approved by CEN on 6 April 2026 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

CEN members are required to announce the existence of this CEN/TS in the same way as for an EN and to make the CEN/TS available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the CEN/TS) until the final decision about the possible conversion of the CEN/TS into an EN is reached.

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

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CEN/TS 15502-3-3:2026 (E)

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European foreword

This document (CEN/TS 15502-3-3:2026) has been prepared by Technical Committee CEN/TC 109 “Central heating boilers using gaseous fuels”, the secretariat of which is held by DIN.

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

This document contains an expansion of the scope of EN 15502-2-1:2022+A1:2023 and provides requirements needed for this expansion.

EN 15502 consists of the following parts under the general title “Gas-fired heating boilers”:

- *Part 1: General requirements and tests;*
- *Part 2-1: Specific standard for type C appliances and type B2, B3 and B5 appliances of a nominal heat input not exceeding 1 000 kW;*
- *Part 2-2: Specific standard for type B1 appliances;*
- *Part 2-3: Specific standard for hybrid units combining a gas-fired boiler and an electrical heat pump in a product;*
- *Part 3-1: H2NG and ACCF — Expansion of EN 15502-2-1:2022;*
- *Part 3-2: H2NG — Expansion of prEN 15502-2-2:202x (under development);*
- *Part 3-3: Hydrogen — Expansion of EN 15502-2-1:2022.*

Relationship between this document, EN 15502-2-1:2022+A1:2023 and EN 15502-1:2021+A1:2023 - the reader needs to be aware of the following information:

- a) this document (CEN/TS 15502-3-3) is to be used in conjunction with EN 15502-2-1:2022+A1:2023, while EN 15502-2-1:2022+A1:2023 is to be used in conjunction with EN 15502-1:2021+A1:2023. This means that this TS is to be used in conjunction with both EN 15502-2-1:2022+A1:2023 and EN 15502-1:2021+A1:2023 and that all information in EN 15502-2-1:2022+A1:2023 and EN 15502-1:2021+A1:2023 applies as well, unless stated otherwise (see under b)).

NOTE 1 To find the actual requirements or information in the (sub)clauses of EN 15502-2-1:2022+A1:2023 referred to in this TS, one might need to check EN 15502-1:2021+A1:2023 (as EN 15502-2-1:2022+A1:2023 is to be used in conjunction with EN 15502-1:2021+A1:2023).

- b) the numbering structure of this TS is using the numbering structure of EN 15502-2-1:2022+A1:2023 and expanding on it. Where this TS states: Shall be according to EN 15502-2-1:2022+A1:2023, [clause number], the numbering, title and text of that clause of EN 15502-2-1:2022+A1:2023 is to be used (incl. sub clauses and sub clause numbering, tables and table numbering, equations and equation numbering, figures and figure numbering, lists and list numbering).

NOTE 2 The TS and its annexes can refer to (sub)clause numbers that are to be found either in this TS, or EN 15502-2-1:2022+A1:2023, or EN 15502-1:2021+A1:2023.

- c) The relevant text of EN 15502-2-1:2022+A1:2023 is to be adapted accordingly in all cases where this TS states:

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- shall be according to EN 15502-2-1:2022+A1:2023, [clause number] with the following modification;
 - shall be according to EN 15502-2-1:2022+A1:2023, [clause number] with the following modification of [sub clause number(s)];
 - shall be according to EN 15502-2-1:2022+A1:2023, [clause number] with the following addition;
 - shall be according to EN 15502-2-1:2022+A1:2023, [clause number] with the addition of [sub clause number(s)] at the end;
 - EN 15502-2-1:2022+A1:2023, [clause number] is replaced by the following;
 - the title of EN 15502-2-1:2022+A1:2023 [clause number] is replaced by the following;
 - EN 15502-2-1:2022+A1:2023, [clause number] is not applicable.
- d) Clauses or subclauses in this TS that are additional to the structure of EN 15502-2-1:2022+A1:2023 are numbered “30x” (e.g. 3.1.301, 8.4.301, Table 301, Equation (301), Figure 301) or designated as Annex “HY” (e.g. Annex HYA, HYB, HYC, etc.). These additional (sub)clauses provide requirements and information that is specific for the appliances that are covered in the scope of this TS.

NOTE 3 The additional (sub)clauses in this TS are not indicated as an addition to EN 15502-2-1:2022+A1:2023.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN/CENELEC Internal Regulations, the national standards organisations of the following countries are bound to announce this Technical Specification: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

Introduction

The introduction of EN 15502-2-1:2022+A1:2023 applies.

CEN/TS 15502-3-3:2026 (E)**1 Scope**

Shall be according to EN 15502-2-1:2022+A1:2023, Clause 1 with the following modifications:

Replace:

“This document covers gas-fired central heating boilers from the types C₁ up to C₍₁₁₎ and the types B₂, B₃ and B₅:”

By:

“This document covers gas-fired central heating boilers from the types C₁, C₃ up to C₉ and the types B₂, B₃ and B₅ :”

b) is replaced by:

“b) that use combustible gases of gas group 4Y at the nominal pressure of 20 mbar;

Appliance category	P _n	P _{min}	P _{max}
4 th family	20	17	25

“

k) is not applicable.

Add at the end of the list, after k), the following:

l) which are fully premixed appliances equipped with a Pneumatic Gas/Air Ratio controller (PGAR) or an Adaptive Combustion Control Function (ACCF) that are intended to be connected to hydrogen gas grids where the quality of the distributed hydrogen gas is likely expected to stay within a Wobbe index range of 42 to 46 MJ/m³.

Replace in the list following

“This document does not cover all the requirements for:”

ab), ag), ah) and al) by:

ab) appliances that are intended to be connected to gas grids where the quality of the distributed hydrogen gas is likely to vary outside the Wobbe index range of 42 to 46 MJ/m³;

ag) C₍₁₀₎ boilers;

ah) C₍₁₁₎ boilers;

al) partially premixed appliances equipped with an adaptive combustion control function (ACCF);

and add an) and ao);

an) the conversion from natural gas to hydrogen;

ao) the risk of aeration of the gas supply to the appliance.

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.

The normative references of EN 15502-2-1:2022+A1:2023 apply with the following additions:

EN 88-1:2022+A1:2023, *Safety and control devices for gas burners and gas burning appliances — Part 3: Pressure and/or flow rate regulators for inlet pressures up to and including 500 kPa, electronic types*

EN 88-3:2022+A1:2024, *Safety and control devices for gas burners and gas burning appliances — Part 3: Pressure and/or flow rate regulators for inlet pressures up to and including 500 kPa, electronic types*

EN 15502-2-1:2022+A1:2023, *Gas-fired central heating boilers — Part 2-1: Specific standard for type C appliances and type B2, B3 and B5 appliances of a nominal heat input not exceeding 1 000 kW*

EN 12067-2:2022, *Safety and control devices for burners and appliances burning gaseous or liquid fuels — Control functions in electronic systems — Part 2: Fuel/air ratio control/supervision of the electronic type*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN