



**SLOVENSKI STANDARD**  
**oSIST prEN 14972-9:2019**  
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**Vgrajeni gasilni sistemi - Sistemi s pršečo vodo - 9. del: Protokol preskušanja sistemov z odprtimi šobami za požarno zaščito strojev v ohišjih do 260 m<sup>3</sup>**

Fixed firefighting systems - Water mist systems - Part 9: Test protocol for machinery in enclosures not exceeding 260 m<sup>3</sup> for open nozzle systems

Ortsfeste Brandbekämpfungsanlagen - Feinsprüh-Löschanlagen - Teil 9: Prüfprotokoll für Maschinen in Gehäusen bis 260 m<sup>3</sup> für offene Düsensysteme

Installations fixes de lutte contre l'incendie - Systèmes à brouillard d'eau - Partie 9 : Protocole d'essai des systèmes à buses ouvertes pour machines situées dans des enceintes ne dépassant pas 260 m<sup>3</sup>

**Ta slovenski standard je istoveten z: prEN 14972-9**

<https://standards.iteh.ai/catalog/standards/sist/51149bdf-7073-4d2b-9746-8d58aff69d27/sist-en-14972-9-2020>

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**ICS:**

13.220.10	Gašenje požara	Fire-fighting
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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**DRAFT**  
**prEN 14972-9**

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English Version

**Fixed firefighting systems - Water mist systems - Part 9:  
Test protocol for machinery in enclosures not exceeding  
260 m<sup>3</sup> for open nozzle systems**

Installations fixes de lutte contre l'incendie - Systèmes  
à brouillard d'eau - Partie 9 : Protocole d'essai des  
systèmes à buses ouvertes pour machines situées dans  
des enceintes ne dépassant pas 260 m<sup>3</sup>

Ortsfeste Brandbekämpfungsanlagen - Feinsprüh-  
Löschanlagen - Teil 9: Prüfprotokoll für Maschinen in  
Gehäusen bis 260 m<sup>3</sup> für offene Düsensysteme

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 191.

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.

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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.

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

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## European foreword

This document (prEN 14972-9:2018) has been prepared by Technical Committee CEN/TC 191 “Fixed firefighting systems”, the secretariat of which is held by BSI.

This document is currently submitted to the CEN Enquiry.

EN 14972, *Fixed firefighting systems — Water mist systems* consists of the following parts:

- *Part 1: Design, installation, inspection and maintenance;*
- *Part 2: Test protocol for shopping areas for automatic nozzle systems;*
- *Part 3: Test protocol for office, school class rooms and hotel for automatic nozzle systems;*
- *Part 4: Test protocol for non-storage occupancies for automatic nozzle systems;*
- *Part 5: Test protocol for car garages for automatic nozzle systems;*
- *Part 6: Test protocol for false floors and false ceilings for automatic nozzle systems;*
- *Part 7: Test protocol for commercial low hazard occupancies for automatic nozzle systems;*
- *Part 8: Test protocol for machinery in enclosures exceeding 260 m<sup>3</sup> for open nozzle systems;*
- *Part 9: Test protocol for machinery in enclosures not exceeding 260 m<sup>3</sup> for open nozzle systems;*
- *Part 10: Test protocol for atrium protection with sidewall nozzles for open nozzle systems;*
- *Part 11: Test protocol for cable tunnels for open nozzle systems;*
- *Part 12: Test protocol for commercial deep fat cooking fryers for open nozzle systems;*
- *Part 13: Test protocol for wet benches and other similar processing equipment for open nozzle systems;*
- *Part 14: Test protocol for combustion turbines in enclosures exceeding 260 m<sup>3</sup> for open nozzle systems;*
- *Part 15: Test protocol for combustion turbines in enclosures not exceeding 260 m<sup>3</sup> for open nozzle systems;*
- *Part 16: Test protocol for industrial oil cookers for open nozzle systems.*

## 1 Scope

This document specifies fire testing requirements for water mist systems used for fire protection of machinery in enclosures with volumes not exceeding 260 m<sup>3</sup>.

## 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.

prEN 14972-1, *Fixed firefighting systems - Water mist systems - Part 1: Design, installation, inspection and maintenance*<sup>1)</sup>

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in CEN/TS 14972 and the following apply.

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

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

### 3.1 machinery enclosure

<water mist systems>

any enclosure containing equipment that uses fuel and/or lubrication fluids with volatilities less than or equal to heptane

EXAMPLE Internal combustion engines (excluding engine test cells), oil pumps, oil tanks, fuel filters, generators, transformer vaults, gear boxes, drive shafts, lubrication skids, diesel engine driven generators, and other similar equipment using liquid hydrocarbon fuel and/or hydraulic, heat transfer, and lubrication fluids with volatility less than or equal to heptane; enclosures with incidental use or storage of hydrocarbon ignitable liquids (also known as flammable liquids) of not more than two 208 litre drums.

## 4 General requirements

**4.1** The tests should be conducted until the fire is extinguished, as required by the applicable fire test.

**4.2** System components, component locations, operating conditions and test enclosure details shall remain unaltered throughout all of the fire tests for a given application.

**4.3** All fire tests should be conducted following the manufacturer's instructions in regard to nozzle placement, spray flux, and spray duration. Sprays can be continuous or intermittent in time. In the case of intermittent, or cycled, sprays, the time period during which the system is not discharging shall not be greater than 50 % of one complete on/off cycle. The system off period shall not exceed one minute.

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1) This document is currently in preparation.