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**Vgrajeni gasilni sistemi - Sistemi s pršečo vodo - 13. del: Protokol preskušanja za mokre mize in drugo podobno obdelovalno opremo za sistem z odprtimi šobami**

Fixed firefighting systems - Water mist systems - Part 13: Test protocol for wet benches and other similar processing equipment for open nozzle systems

Ortsfeste Brandbekämpfungsanlagen - Wassernebelsysteme - Teil 13: Prüfprotokoll für Nassbänke und andere ähnliche Verarbeitungsanlagen für offene Düsensysteme

Installations fixes de lutte contre l'incendie - Systèmes à brouillard d'eau - Partie 13 : Protocole d'essai des systèmes à buses ouvertes pour bancs humides et autres équipements de traitement similaires

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 14972-13**

July 2026

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English Version

**Fixed firefighting systems - Water mist systems - Part 13:  
Test protocol for wet benches and other similar processing  
equipment for open nozzle systems**

Installations fixes de lutte contre l'incendie - Systèmes  
à brouillard d'eau - Partie 13 : Protocole d'essai des  
systèmes à buses ouvertes pour bancs humides et  
autres équipements de traitement similaires

Ortsfeste Brandbekämpfungsanlagen -  
Wassernebelsysteme - Teil 13: Prüfprotokoll für Wet  
Benches und andere ähnliche Verarbeitungsanlagen  
für offene Düsensysteme

This European Standard was approved by CEN on 15 June 2026.

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## European foreword

This document (EN 14972-13:2026) has been prepared by Technical Committee CEN/TC 191 “Fixed firefighting systems”, the secretariat of which is held by BSI.

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of an identical text or by endorsement, at the latest by January 2027, and conflicting national standards shall be withdrawn at the latest by January 2027.

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.

The EN 14972 series published under the general title *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 manually activated 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;*
- *Part 17: Test protocol for residential occupancies for automatic nozzle systems.*

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.

**EN 14972-13:2026 (E)**

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

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## 1 Scope

This document specifies the evaluation of the fire performance of water mist systems for wet benches and other similar processing equipment.

## 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 14972-1:2020+A1:2025, *Fixed firefighting systems — Water mist systems — Part 1: Design, installation, inspection and maintenance*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 14972-1 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/>

## 4 General requirements

**4.1** Up to a maximum of 5 nozzles used in the fire tests shall be kept for later verification.

**4.2** The water mist system, operating without manual intervention, shall successfully complete all described performance fire tests for their specific applications.

**4.3** The fire tests shall be conducted until the fire is extinguished, as required by the fire test.

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

**4.5** All fire tests shall be conducted using the manufacturer instructions in regard to nozzle placement, spray flux, operating pressure, and spray duration. Sprays can be continuous or intermittent in time. In 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 1 min.

**4.6** In conjunction with the performance fire tests, all twin fluid water mist systems shall be subjected to a straight discharge test with no fire to evaluate the resulting discharge and oxygen concentration. This evaluation shall be conducted using the maximum extinguishing agent flow and pressure. The discharge duration for the test shall be the maximum required for the system and occupancy to be protected. Oxygen measurements shall be recorded at a location(s) within the test enclosure. This information shall be used to evaluate personnel safety and shall be accounted for in the manufacturer's DIOM manual.

**4.7** The minimum operating nozzle pressure (as specified by the manufacturer) shall be used for all tests. System operating pressures shall be repeatable to within  $\pm 5$  %. If the system pressures cannot be controlled within the specified tolerance, fire tests shall be conducted at the minimum and maximum pressure by using external means to control the system pressure.

**4.8** The maximum nozzle ceiling height and spacing (as specified by the manufacturer) shall be used for all tests. This includes utilizing the maximum ceiling spacing of the nozzles from the walls.