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BS EN 50193-2-2:2016



BSI Standards Publication

Electric instantaneous water heaters

Part 2-2: Performance requirements —
Single point of use electric instantaneous
showers — Efficiency

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This British Standard is the UK implementation of EN 50193-2-2:2016.

The UK participation in its preparation was entrusted to Technical Committee CPL/59, Performance of household electrical appliances.

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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English Version

Electric instantaneous water heaters - Part 2-2: Performance requirements - Single point of use electric instantaneous showers - Efficiency

Chauffe-eau électriques instantanés - Partie 2-2 :
Exigences d'aptitude à la fonction - Chauffe-eau
instantanés de douches à un seul point d'utilisation -
Efficacité.

Elektro-Durchfluss-Wassererwärmer - Teil 2-2:
Anforderungen an die Gebrauchseigenschaften -
Durchfluss-Wassererwärmer für eine einzelne Zapfstelle -
Effizienz

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Comité Européen de Normalisation Electrotechnique
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European foreword

This document (EN 50193-2-2) has been prepared by CLC/TC 59X "Performance of household and similar electrical appliances".

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) [2017-10-10]
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) [2019-10-10]

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

For the relationship with EU Directive(s) see informative Annexes ZZA and ZZB, which are an integral part of this document.

This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

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1 Scope

This clause of part 1 is applicable except as follows.

Addition:

This standard applies to open outlet, single point of use, electric instantaneous water heaters intended for household or similar use, for showering purposes without downstream mixing.

This standard only specifies tests for the assessment of energy efficiency.

This standard does not apply to electrical instantaneous water heaters covered by other parts of this series of standards.

2 Normative references

This clause of Part 1 is applicable.

3 Terms and definitions

This clause of Part 1 is applicable.

4 General test conditions

This clause of Part 1 is applicable except as follows.

4.3 General conditions

Addition:

4.3.101 Pressure, temperature, flow and power conditions

Pressure, temperature and flow measurements should be maintained during testing to the tolerance detailed in Table 1. Any deviations from these tolerances will result an invalid test. All testing should be performed at the rated power for the appliance (based on a rating at 230V/400V as applicable).

4.4 Test Setup

Replacement:

The appliance shall be fixed in accordance with the installation instructions except that the shower hose shall not be connected. Products covered by this standard are only to be tested to the XS load pattern detailed in Annex A, Table A.1.

The measurement setup shall correspond to Annex B.

5 Energy efficiency

This clause of Part 1 is applicable except as follows.

5.1 Test method

5.1.1 General

Addition

It is allowable to decrease the time between draw offs in order to accelerate the load pattern detailed in Annex A, as long as it can be demonstrated that results are not affected.