SLOVENSKI STANDARD
oSIST prEN IEC 60436:2024

01-junij-2024

Električni pomivalni stroji za gospodinjstva - Metode za merjenje učinkovitost delovanja

Electric dishwashers for household use - Methods for measuring the performance

Elektrische Geschirrspüler für den Hausgebrauch – Messverfahren für Gebrauchseigenschaften

Lave-vaisselle électriques à usage domestique - Méthodes de mesure de l'aptitude à la fonction

Ta slovenski standard je istoveten z: **prEN IEC 60436:2024**

ICS:

97.040.40	Pomivalni stroji	Dishwashers

oSIST prEN IEC 60436:2024 **en**

59A/261/CDV

COMMITTEE DRAFT FOR VOTE (CDV)

PROJECT NUMBER: **IEC 60436 ED5**	
DATE OF CIRCULATION: **2024-04-05**	CLOSING DATE FOR VOTING: **2024-06-28**
SUPERSEDES DOCUMENTS: **59A/256/RR**	

IEC SC 59A : ELECTRIC DISHWASHERS

SECRETARIAT: China	SECRETARY: Ms Fang XU
OF INTEREST TO THE FOLLOWING COMMITTEES:	PROPOSED HORIZONTAL STANDARD: ☐ Other TC/SCs are requested to indicate their interest, if any, in this CDV to the secretary.

FUNCTIONS CONCERNED:

☐ EMC ☒ ENVIRONMENT ☒ QUALITY ASSURANCE ☐ SAFETY

☒ SUBMITTED FOR CENELEC PARALLEL VOTING **Attention IEC-CENELEC parallel voting** The attention of IEC National Committees, members of CENELEC, is drawn to the fact that this Committee Draft for Vote (CDV) is submitted for parallel voting. The CENELEC members are invited to vote through the CENELEC online voting system.	☐ NOT SUBMITTED FOR CENELEC PARALLEL VOTING

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TITLE:

Electric dishwashers for household use - Methods for measuring the performance

PROPOSED STABILITY DATE: 2027

NOTE FROM TC/SC OFFICERS:

Dear National Committee members,

This new edition of IEC 60436 constitutes a major update in testing the performance of dishwashers.

For the past three years working and advisory groups of SC59A have been working pro-actively towards improving crucial aspects of the test procedure, resulting in the most consumer and market relevant as well as accurate test methods for electric dishwashers to date.

All new elements of the test procedures are not only aiming to ensure precise measurements but also balancing test burden and increasing the global application of this international standard.

SC59A welcomes feedback on the proposed standard and is looking forward to further advance it with your support.

Yours sincerely,

Krzysztof Wozny, Convenor MT2

Jane Xu, Secretary SC59A

Paul Richter, Chair SC59A

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

Electric dishwashers for household use - Methods for measuring the performance

FOREWORD

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International Standard IEC 60436 has been prepared by subcommittee 59A: Electric dishwashers, of IEC technical committee 59: Performance of household electrical appliances.

This edition constitutes a technical revision and includes the following significant technical changes with respect to the previous edition:

10) Implementation of a new reference machine, which better reflects modern dishwasher energy and water saving technologies. Its ability to function as a reference machine for the cleaning assessment was assessed in a Round Robin Test.

11) Implementation of the new reference detergent type E, which better reflects market detergents formulations. It includes upgraded enzymes and a lower content of silicates to reduce the alkalinity which simplifies the world wide transportation by avoiding dangerous goods labelling and therefore improves the usage all over the world.
12) Implementation of an alignment factor for the cleaning performance assessment as proposed in a scientific study done by a university to align test results of the previous version to the new version of this standard with the new reference system described above.
13) Introduction of replacements and alternatives for the pan and knives as the production of the current ones was stopped.
14) Improvement of the room temperature control due to a temperature measurement inside the dishwasher directly prior to the start of the test programme.
15) Update of the weight of different load items and the specified ranges to anneal the requirements in the standard to the actual weight of the items.
16) Introduction of an updated method to assess low power modes providing a step-by-step measurement description and including new modes e.g. network standby which are of increased importance for dishwasher offering additional services via internet connection. Additionally, reactions to different interactions with the appliance can be assessed in a better way and learnings of Round Robin Test are included.
17) The inclusion of additional method for dishwasher testing which allows the assessment of variations of dishwasher units from one model.
18) New requirements for the loading and handling instructions for tests institutes.
19) Implementation of testing methodology for multicompartment dishwashers
20) Improvement of ballast soil preparation process in Annex V

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of the base publication and its amendment will remain unchanged until the stability date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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