

Edition 1.0 2019-05

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Household and similar electrical appliances — Test code for the determination of airborne acoustical noise – Part 2-16: Particular requirements for washer-dryers

Appareils électrodomestiques et analogues/56**Code d'essai pour la détermination** du bruit aérien – 236bac3fe092/icc-60704-2-16-2019 Partie 2-16: Exigences particulières pour les lavantes-séchantes





THIS PUBLICATION IS COPYRIGHT PROTECTED Copyright © 2019 IEC, Geneva, Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either IEC or IEC's member National Committee in the country of the requester. If you have any questions about IEC copyright or have an enquiry about obtaining additional rights to this publication, please contact the address below or your local IEC member National Committee for further information.

Droits de reproduction réservés. Sauf indication contraire, aucune partie de cette publication ne peut être reproduite ni utilisée sous quelque forme que ce soit et par aucun procédé, électronique ou mécanique, y compris la photocopie et les microfilms, sans l'accord écrit de l'IEC ou du Comité national de l'IEC du pays du demandeur. Si vous avez des questions sur le copyright de l'IEC ou si vous désirez obtenir des droits supplémentaires sur cette publication, utilisez les coordonnées ci-après ou contactez le Comité national de l'IEC de votre pays de résidence.

IEC Central Office 3, rue de Varembé CH-1211 Geneva 20 Switzerland Tel.: +41 22 919 02 11 info@iec.ch www.iec.ch

About the IEC

The International Electrotechnical Commission (IEC) is the leading global organization that prepares and publishes International Standards for all electrical, electronic and related technologies.

About IEC publications

The technical content of IEC publications is kept under constant review by the IEC. Please make sure that you have the latest edition, a corrigendum or an amendment might have been published.

IEC publications search - webstore.iec.ch/advsearchform

The advanced search enables to find IEC publications by a variety of criteria (reference number text, technical committee,...). It also gives information on projects, replaced and withdrawn publications.

IEC Just Published - webstore.iec.ch/justpublished

Stay up to date on all new IEC publications. Just Published details all new publications released. Available online (and 4-2) once a month by email. https://standards.iteh.ai/catalog/standards.iteh.ai

IEC Customer Service Centre - webstore.iec.ch/csc/092/iec-6 If you wish to give us your feedback on this publication or need further assistance, please contact the Customer Service Centre: sales@iec.ch.

Electropedia - www.electropedia.org

The world's leading online dictionary on electrotechnology, containing more than 22 000 terminological entries in English and French, with equivalent terms in 16 additional languages. Also known as the International Electrotechnical Vocabulary (IEV) online.

IEC Glossary - std.iec.ch/glossary

67,000 electrotechnical terminology entries in English and French extracted from the Terms and Definitions clause of IEC publications issued since 2002. Some entries have been collected from earlier publications of IEC TC 37, 77, 86 and CISPR.

A propos de l'IEC

La Commission Electrotechnique Internationale (IEC) est la première organisation mondiale qui élabore et publie des Normes internationales pour tout ce qui a trait à l'électricité, à l'électronique et aux technologies apparentées.

A propos des publications IEC

Le contenu technique des publications IEC est constamment revu. Veuillez vous assurer que vous possédez l'édition la plus récente, un corrigendum ou amendement peut avoir été publié.

Recherche de publications IEC -

webstore.iec.ch/advsearchform

La recherche avancée permet de trouver des publications IEC en utilisant différents critères (numéro de référence, texte, comité d'études,...). Elle donne aussi des informations sur les projets et les publications remplacées ou retirées.

IEC Just Published - webstore.iec.ch/justpublished

Restez informé sur les nouvelles publications IEC. Just Published détaille les nouvelles publications parues. Disponible en ligne et une fois par mois par email.

Service Clients - webstore.iec.ch/csc

Si vous désirez nous donner des commentaires sur cette publication ou si vous avez des questions contactez-nous: sales@iec.ch.

Electropedia - www.electropedia.org

Le premier dictionnaire d'électrotechnologie en ligne au monde, avec plus de 22 000 articles terminologiques en anglais et en français, ainsi que les termes équivalents dans 16 langues additionnelles. Egalement appelé Vocabulaire Electrotechnique International (IEV) en ligne.

Glossaire IEC - std.iec.ch/glossary

67 000 entrées terminologiques électrotechniques, en anglais et en français, extraites des articles Termes et Définitions des publications IEC parues depuis 2002. Plus certaines entrées antérieures extraites des publications des CE 37, 77, 86 et CISPR de l'IEC.





Edition 1.0 2019-05

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Household and similar electrical appliances - Test code for the determination of airborne acoustical noise <u>fstandards.iteh.ai</u>) Part 2-16: Particular requirements for washer-dryers

Appareils électrodomestiques et analogues 56 Code d'essai pour la détermination du bruit aérien action 2-16-2019 Partie 2-16: Exigences particulières pour les lavantes-séchantes

INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMMISSION ELECTROTECHNIQUE INTERNATIONALE

ICS 17.140.20

ISBN 978-2-8322-6899-5

Warning! Make sure that you obtained this publication from an authorized distributor. Attention! Veuillez vous assurer que vous avez obtenu cette publication via un distributeur agréé.

 Registered trademark of the International Electrotechnical Commission Marque déposée de la Commission Electrotechnique Internationale

CONTENTS

| FC | FOREWORD | | | |
|----|--|--------|---|------|
| IN | TRODU | стю | DN | 6 |
| 1 | Scop | e an | d object | 7 |
| | 1.1 | Sco | ре | 7 |
| | 1.1.1 | | General | 7 |
| | 1.1.2 | | Types of noise | 7 |
| | 1.1.3 | | Size of the source | 7 |
| | 1.2 | Obje | ect | 7 |
| | 1.3 | Mea | surement uncertainty | 7 |
| | 1.101 | Star | ndard deviation for declaration and verification | 8 |
| 2 | Norm | native | e references | 8 |
| 3 | Term | is an | d definitions | 8 |
| 4 | Meas | suren | nent methods and acoustical environments | . 10 |
| | 4.2 | Dire | ct method | . 10 |
| | 4.3 | Con | iparison method | . 10 |
| 5 | Instru | umer | itation | . 11 |
| | 5.3 | Inst | rumentation for measuring operating conditions | .11 |
| 6 | Oper | | and location of appliances under test P.R.E.V.IE.W. | |
| | 6.1 | Eau | ipping and pre-conditioning of appliances | .11 |
| | 6.2 | | ply of electric energy and of water origash.ai) | |
| | 6.4 | Loa | ding and operating of appliances during tests | .12 |
| | 6.5 | Loca | ation and mounting of appliances-2-16:2019 | .12 |
| | 6.101 | Star | ation and mounting of appliances <u>2-16:2019</u> https://standards.iteh.ai/catalog/standards/sist/56054202-0e23-449d-85c7- ndard test programme for noise measurements | . 12 |
| | 6.101 | | Standard test programme for a washing cycle | .12 |
| | 6.101 | 1.2 | Standard test programme for a drying cycle | . 12 |
| | 6.10 ⁻ | 1.3 | Standard test programme for continuous cycle | .13 |
| | 6.102 | Star | ndard test load for noise measurements | .13 |
| | 6.102 | 2.1 | General | . 13 |
| | 6.102 | 2.2 | Pre-treatment of new cotton test load items prior to use | .14 |
| | 6.102 | 2.3 | Normalisation of cotton test load items | |
| | 6.102 | 2.4 | Conditioning of cotton test load | |
| | 6.102 | | Standard test load for washing cycle noise measurements | |
| | 6.102 | | Standard test load for drying cycle noise measurements | |
| _ | 6.102 | | Standard test load for continuous cycle noise measurements | |
| 7 | Meas | | nent of sound power levels | . 15 |
| | 7.1 | | rophone array, measurement surface and RSS location for essentially | 15 |
| | 7.4 | | -field conditions over reflecting plane(s) surements | |
| 8 | | | on of sound pressure and sound power levels | |
| 0 | | | | |
| | | | Il result | |
| | 8.10 ² 8.10 ² | | General | |
| | 8.10 8.10 | | Drying final result | |
| | 8.10 [°] | | Spinning final result when no thermal spin period occurs | |
| | 8.10 ² | | Spinning final result when thermal spin period occurs | |
| 9 | | | on to be recorded | |
| - | | | | |

| 9.2 | Description of appliance under test | 17 |
|------------|--|----|
| 9.7 | Electric supply, water supply, etc. | 17 |
| 9.9 | Operation of the appliance under test | 17 |
| 9.12 | Measured data | |
| 9.12 | .101 Spin speed | |
| | mation to be reported | |
| 10.3 | Test conditions for the appliance | |
| 10.4 | Acoustical data | |
| 10.4 | .101 Spin speed at highest noise level | |
| | .102 Maximum spin speed | |
| Annexes | | 19 |
| Annex A | (normative) | 19 |
| Bibliograp | ɔhy | 20 |

| Table 101 – Standard deviations of results for washer-dryer | |
|---|--|
| Table 102 – Standard deviations of washer-dryer | |
| Table 103 – Standard deviations for spinning final results for washer-dry | |
| spinning final results for washer-dry Table 104 – Standard deviations for dryer | |

IEC 60704-2-16:2019 https://standards.iteh.ai/catalog/standards/sist/56054202-0e23-449d-85c7-236bac3fe092/iec-60704-2-16-2019 - 4 -

INTERNATIONAL ELECTROTECHNICAL COMMISSION

HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – TEST CODE FOR THE DETERMINATION OF AIRBORNE ACOUSTICAL NOISE –

Part 2-16: Particular requirements for washer-dryers

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user. (Standards.iten.al)
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter. https://standards.iteh.ai/catalog/standards/sist/56054202-0e23-449d-85c7-
- 5) IEC itself does not provide any attestation of conformity. Independent certification bodies provide conformity assessment services and, in some areas, access to IEC marks of conformity. IEC is not responsible for any services carried out by independent certification bodies.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 60704-2-16 has been prepared by subcommittee 59D: Home and similar laundry appliances of IEC technical committee 59: Performance of household and similar electrical appliances.

The text of this International Standard is based on the following documents:

| CDV | Report on voting |
|-------------|------------------|
| 59D/455/CDV | 59D/459/RVC |

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

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

IEC 60704-2-16:2019 © IEC 2019

This Part 2-16 is intended to be used in conjunction with the third edition (2010) of IEC 60704-1, Household and similar electrical appliances – Test code for the determination of airborne acoustical noise – Part 1: General requirements.

NOTE When "Part 1" is mentioned in this standard, it refers to IEC 60704-1:2010.

The relevant text of Part 1 as amended by this publication establishes the test code for washer-dryers.

This Part 2-16 supplements or modifies the corresponding clauses in IEC 60704-1. When a particular subclause of Part 1 is not mentioned in this Part 2-16, that subclause is applicable as far as reasonable. Where this standard states "addition", "modification" or "replacement", the relevant requirements, test specifications or explanatory matter in Part 1 should be adapted accordingly.

Subclauses and tables that are additional to those in Part 1 are numbered starting from 101.

Unless notes are in a new subclause or involve notes in Part 1, they are numbered starting from 101, including those in a replaced clause or subclause.

A list of all the parts in the IEC 60704 series, under the general title *Household and similar electrical appliances – Test code for the determination of airborne acoustical noise*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "http://webstore.iec.ch" in the data related to the specific document. At this date, the document will be **REVIEW**

- reconfirmed,
- withdrawn,
- (standards.iteh.ai)
- replaced by a revised edition, or <u>IEC 60704-2-16:2019</u>
- amended. https://standards.iteh.ai/catalog/standards/sist/56054202-0e23-449d-85c7-236bac3fe092/iec-60704-2-16-2019

INTRODUCTION

The noise of washer-dryers has been measured up to now by making use of two standards, IEC 60704-2-4 and IEC 60704-2-6. This first edition of IEC 60704-2-16 makes it possible to test the noise of washer-dryers by using one single standard. The following significant technical changes with respect to the separate use of IEC 60704-2-4:2011 and IEC 60704-2-6:2012 have been introduced:

- measurement uncertainty and standard deviations are taken into account,
- definition of periods and cycles, in particular definition of thermal spin period and continuous cycle,
- definitions of standard test programme and standard test load,
- location and mounting,
- information to be reported.

The measuring conditions specified in this document provide for sufficient accuracy in determining the noise emitted and comparing the results of measurements taken by different laboratories, whilst simulating as far as possible the practical use of household washer-dryers.

It is recommended to consider the determination of noise levels as part of a comprehensive testing procedure covering many aspects of the properties and performance of household washer-dryers.

NOTE As stated in the introduction to IEC 60704-1, this test code is concerned with airborne noise only.

(standards.iteh.ai)

<u>IEC 60704-2-16:2019</u> https://standards.iteh.ai/catalog/standards/sist/56054202-0e23-449d-85c7-236bac3fe092/iec-60704-2-16-2019

Part 2-16: Particular requirements for washer-dryers

1 Scope and object

This clause of Part 1 is applicable except as follows:

1.1 Scope

1.1.1 General

Addition:

These particular requirements apply to single-unit electric washer-dryers for household and similar use intended for placing on the floor against a wall, for building-in or placing under a counter, a kitchen worktop or under a sink, for wall-mounting or on a counter.

1.1.2 Types of noise

Replacement:

The methods specified in (\$0 3743-1, \\$0 3743-2 and [\$0 3744 can be used for measuring noise emitted by washer-dryers. (standards.iteh.ai)

1.1.3 Size of the source

Replacement:

IEC 60704-2-16:2019

The method specified in ISO 3744 is applicable to noise sources of any size. When applying ISO 3743-1 and ISO 3743-2, care should be taken that the maximum size of the washerdryers under test fulfils the requirements specified in 1.2 of ISO 3743-1:2010 and 1.3 of ISO 3743-2:1994.

1.2 Object

Addition:

Requirements for the declaration of noise emission values are not within the scope of this document.

NOTE 101 For determining and verifying noise emission values declared in product specifications, see IEC 60704-3.

1.3 Measurement uncertainty

Replacement:

For washer-dryers, the estimated values of standard deviations of sound power levels, determined in accordance with this document are as indicated in Table 101 and 102.

| Standard deviation (dB) | | |
|-----------------------------------|-----------------------------------|--|
| $\sigma_{\!_{r}}$ (repeatability) | $\sigma_{\!_R}$ (reproducibility) | |
| 0,6 | 1,0 | |

Table 101 – Standard deviations of sound power levels of washing and spinning final results for washer-dryer

| Standard deviation (dB) | | |
|---------------------------------|-----------------------------------|--|
| $\sigma_{_{r}}$ (repeatability) | $\sigma_{\!_R}$ (reproducibility) | |
| 0,4 | 0,8 | |

Table 102 – Standard deviations of sound power levels of drying final results for washer-dryer

1.101 Standard deviation for declaration and verification

For the purpose of determining and verifying declared noise emission values for washing and spinning for washer-dryers in accordance with IEC 60704-3, the values indicated in Table 103 apply.

Table 103 – Standard deviations for declaration and verification for washing and spinning final results for washer-dryer

| Standard deviation (dB) | | | |
|--------------------------------|-----------------------|-----------------------------|--|
| $\sigma_{\!P}^{}$ (production) | $\sigma_{_t}$ (total) | $\sigma_{\!_M}$ (reference) | |
| 1,0 to 2,2 | 1,4 to 2,4 | 2,5 | |

For the purpose of determining and verifying declared noise emission values for drying for washer-dryers in accordance with IEC 60704-3, the values indicated in Table 104 apply.

Table 104 – Standard deviations for declaration for drying final results for washer-dryer

| Standard deviation (dB) | | | |
|-------------------------------------|---------------------------------|-----------------------|--|
| $\sigma_{pl}(production)$ is itch a | i/catalog/standardal)ist/560542 | 02-0e23aA4(reference) | |
| 0,7 to 1,0 | bac3te092/jec_60704-2-16-20 | 1,5 | |

2 Normative references

This clause of Part 1 is applicable except as follows:

Addition:

IEC 62512:2012, Electric clothes washer-dryers for household use – Methods for measuring the performance

IEC 60456:2010, Clothes washing machines for household use – Methods for measuring the performance

ISO 3743-1:2010, Acoustics – Determination of sound power levels and sound energy levels of noise sources using sound pressure – Engineering methods for small movable sources in reverberant fields – Part 1: Comparison method for a hard-walled test room

ISO 3744:2010, Acoustics – Determination of sound power levels and sound energy levels of noise sources using sound pressure – Engineering methods for an essentially free field over a reflecting plane

3 Terms and definitions

This clause of Part 1 is applicable except as follows:

Addition:

3.101

washer-dryer

household or similar electrical appliance for washing, rinsing and spinning of textiles that also provides a means for extracting excess water from the textiles by tumbling in a rotating drum, through which heated air is passed

Note 1 to entry: This definition is similar to IEC 60456:2010, 3.1.4.

3.102

rated washing capacity

maximum mass of conditioned textiles, in kg, which the manufacturer declares can be treated in one complete washing cycle

[SOURCE: IEC 62512:2012, 3.1.1]

3.103

rated drying capacity

maximum mass of conditioned textiles, in kg, which the manufacturer declares can be treated in one complete drying cycle

[SOURCE: IEC 62512:2012, 3.1.2]

3.104

rated washing-drying capacity

maximum mass of conditioned textiles, in kg, which the manufacturer declares can be treated in one continuous operation cycle

(standards.iteh.ai)

[SOURCE: IEC 625121201203.83] ANDARD PREVIEW

3.105

3.106

cotton test load

textile load consisting of towels only as defined in Annex C of IEC 60456:2010

https://standards.iteh.ai/catalog/standards/sist/56054202-0e23-449d-85c7-236bac3fe092/iec-60704-2-16-2019

washing period

operating period that begins at the first water filling of the main wash and ends at the start of the drainage pump before the first rinsing operation

Note 1 to entry: Options such as "pre-wash" are not included in the washing period.

[SOURCE: IEC 60704-2-4:2011, 3.1.4, modified – The phrase "operation period that" has been added.]

3.107

rinsing period

operating period that begins at the start of the drainage pump before the first rinsing and ends at the start of the drainage pump after the last rinsing

[SOURCE: IEC 60704-2-4:2011, 3.1.5, modified – The phrase "operation period that" has been added.]

3.108

final spin period

operating period that begins at the start of the drainage pump after the last rinsing period and ends with the end of the programme or with start of drying period

[SOURCE: IEC 60704-2-4:2011, 3.1.6, modified – The phrases "operation period that" and "or with start of drying period" have been added; the word "period" has been added after the word "rinsing".]

3.109

drying period

operating period that begins with the start of operation of the drying fan and ends with the end of the programme, excluding the thermal spin period(s) if present

Note 1 to entry: The start of operation of the drying fan can be identified, for example, from changes of the current and/or power consumption of the washer-dryer.

- 10 -

3.110

thermal spin period

operating period of a drying programme or a drying period of continuous cycle that begins when the drum speed reaches higher than 100 r/min and ends when drum speed reduces to less than 100 r/min

Note 1 to entry: Thermal spin periods can occur several times during a drying cycle.

3.111

washing cycle

combination of washing period, rinsing period and final spinning period

Note 1 to entry: This definition is similar to IEC 62512:2012, 3.1.7.

3.112

drying cycle

combination of drying period and thermal spin period(s)

Note 1 to entry: This definition is similar to IEC 62512:2012, 3.1.8.

Note 2 to entry: The washer-dryer's final spinning noise level is obtained by data collected normally during the washing cycle, but also, in specific cases, by data collected during the drying cycle (see 8.101.5).

3.113

continuous cycle

end of programme

combination of washing cycle and drying cycle without interruption

Note 1 to entry: This definition is similar to/IEC 62512:2012, 3.1.4. REVIEW

3.114

(standards.iteh.ai)

moment in time when the washer-dryer indicates the end of the programme and the load is accessible for the user or, when there is no end of programme indicator and the door is locked during operation, the moment in time when the load is accessible to the user or, when there is no end of programme indicator and the door is not locked during operation, the moment in time when the power consumption of the appliance drops to a steady-state condition and the appliance is not performing any function

[SOURCE: IEC 60456:2010, 3.1.24, modified – The phrase "the program is complete" has been replaced by "moment in time", "washing machine" is replaced by "washer-dryer" and three sentences have been combined to a single phrase.]

3.115 test series

sequence of consecutive runs of the standard test programme

3.116

standard test programme

programme to be selected for noise testing

4 Measurement methods and acoustical environments

This clause of Part 1 is applicable except as follows:

4.2 Direct method

Addition:

If pure tone components are present in the noise emitted by the source, the estimated standard deviation of the measured sound pressure levels in the special reverberation room can increase. In such cases, additional microphone positions or source positions can be necessary, as specified in ISO 3743-2.

4.3 Comparison method

Addition:

If pure tone components are present in the noise emitted by the source, the estimated standard deviation of the measured sound pressure levels in the hard-walled test room or in the special reverberation room can increase. In such cases, additional microphone positions or source positions may be necessary as specified in ISO 3743-1 or ISO 3743-2.

5 Instrumentation

This clause of Part 1 is applicable except as follows:

5.3 Instrumentation for measuring operating conditions

5.3.4

Addition:

Spin speed shall be recorded at intervals of 1 s or less.

6 Operation and location of appliances under test

This clause of Part 1 is applicable except as follows:

6.1 Equipping and pre-conditioning of appliances

6.1.1

Addition:

Prior to each noise test, all filters, heat exchangers and ducts described as consumer service items in the manufacturer's instructions shall be cleaned.

6.1.3

(standards.iteh.ai)

Replacement:

IEC 60704-2-16:2019

https://standards.iteh.ai/catalog/standards/sist/56054202-0e23-449d-85c7-Prior to noise measurements, the washer-dryer shall have been operated for at least five washing cycles as specified in 6.101 with a standard test load as specified in 6.102, but regardless of the average age of the test load.

Furthermore, prior to noise measurements, the washer-dryer shall have been operated for at least two drying cycles as specified in 6.101 with a standard test load as specified in 6.102, but regardless of the average age of the test load.

6.1.4

Replacement:

Care shall be taken to ensure conformance with the climatic conditions indicated in 6.3 of Part 1.

6.2 Supply of electric energy and of water or gas

6.2.2

Not applicable.

6.2.3

Not applicable.

6.2.4

Replacement:

For noise measurements, the static water pressure during filling shall be (240 \pm 50) kPa, if not contradictory to the manufacturer's instructions.