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ANNEXES 1 to 25

## ANNEXES

to the

**COMMISSION REGULATION (EU) .../...**

**amending Regulations (EC) No 1275/2008, (EC) No 107/2009, (EC) No 278/2009, (EC) No 640/2009, (EC) No 641/2009, (EC) No 642/2009, (EC) No 643/2009, (EU) No 1015/2010, (EU) No 1016/2010, (EU) No 327/2011, (EU) No 206/2012, (EU) No 547/2011, (EU) No 932/2012, (EU) No 617/2013, (EU) No 666/2013, (EU) No 813/2013, (EU) No 814/2013, (EU) No 66/2014, (EU) No 548/2014, (EU) No 1253/2014, (EU) 2015/1095, (EU) 2015/1185, (EU) 2015/1188, (EU) 2015/1189 and (EU) 2016/XXX [Air heating/cooling and chillers Number of the Regulation to be inserted before publication in the OJ] with regard to the use of tolerances in verification procedures**

**ANNEX I**  
**Amendments to Annex III to Regulation (EC) No 1275/2008**

Annex III is replaced by the following:

**‘ANNEX III**

**Product compliance verification by market surveillance authorities**

The verification tolerances defined in this Annex relate only to the verification of the measured parameters by Member State authorities and shall not be used by the manufacturer as an allowed tolerance to establish the values in the technical documentation or in interpreting these values with a view to achieving compliance or to communicate better performance by any means.

**1. VERIFICATION PROCEDURE**

When verifying the compliance of a product model with the requirements laid down in this Regulation pursuant to Article 3(2) of Directive 2009/125/EC, for the requirements referred to in this Annex, the authorities of the Member States shall apply the following procedure:

- (1) The Member State authorities shall verify one single unit of the model.
- (2) The model shall be considered to comply with the applicable requirements if:
  - (a) the values given in the technical documentation pursuant to point 2 of Annex IV to Directive 2009/125/EC, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the results of the corresponding measurements carried out pursuant to paragraph (g) thereof; and
  - (b) the values used to determine the compliance of the model and those provided in the product information as required by this Regulation, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the values given in the technical documentation file, including in the test reports; and
  - (c) when the Member State authorities test the unit of the model, the measurements obtained for all the parameters, and the values calculated from these measurements, are within the respective verification tolerances as given in the table below.
- (3) If the results referred to in points 2(a) and (b) are not achieved, the model shall be considered not to comply with this Regulation.
- (4) If the result referred to in point 2(c) is not achieved, the Member State authorities shall select three additional units of the same model for testing.
- (5) The model shall be considered to comply with the applicable requirements if, for these three units, the arithmetical mean of the values of the relevant parameters as measured in testing and the values calculated from these measurements are within the respective verification tolerances given in the table below.
- (6) If the result referred to in point 5 is not achieved, the model shall be considered not to comply with this Regulation.

- (7) The Member State authorities shall provide all relevant information to the authorities of the other Member States and to the Commission within one month of a decision being taken on the non-compliance of the model according to points 3 and 6.

The Member State authorities shall use the measurement and calculation methods set out in point 8 of Annex II and in part 2 of this Annex. The Member State authorities shall only apply the verification tolerances that are set out in the table below and shall only use the procedure described in points 1 to 7. No other tolerances, such as those set out in harmonised standards or in any other measurement method, shall be applied.

<b>Verification tolerances</b>		
<i>Type of requirement</i>	<i>Category</i>	<i>Tolerance</i>
Annex II, points 1(a) and (b), or points 2(a) and (b)	For power consumption requirements above 1.00 W	The determined value shall not exceed the declared value by more than 10 %.
	For power consumption requirements less than or equal to 1.00 W	The determined value shall not exceed the declared value by more than 0.10 W.
Annex II, points 3(c) and 4(a)	n/a	The determined value shall not exceed the declared value by more than 10 %.

## **2. TEST PROCEDURE FOR NETWORKED EQUIPMENT**

To test compliance with the requirements set out in points 3(c) and 4(a) of Annex II, Member State authorities shall use the procedure set out in part 1 of this Annex, after having deactivated and/or disconnected, as applicable, all network ports of the unit.

To test compliance with the other requirements set out in points 3 and 4 of Annex II, Member State authorities shall test one single unit as follows:

If the equipment has, as indicated in the technical documentation, one type of network port and if two or more ports of that type are available, one of these ports is randomly chosen and that port is connected to the appropriate network complying with the maximum specification of the port. In the event of multiple wireless network ports of the same type, the other wireless ports shall be deactivated if possible. In the event of multiple wired network ports of the same type for verifying requirements set out in Annex II, point 3, the other network ports shall be deactivated if possible. If only one network port is available, that port is connected to the appropriate network complying with the maximum specification of the port.

The unit is put in on mode. Once the unit in on mode is working properly, it is allowed to go into the condition providing networked standby and the power consumption is measured. Then the appropriate trigger is given to the equipment through the network port and a check is made on whether the equipment is reactivated.

If the equipment has, as indicated in the technical documentation, more than one type of network port for each type of network port the following procedure is repeated. If two or more network ports of a type are available, one port is chosen randomly for each type of network port and that port is connected to the appropriate network complying with the maximum specification of the port.

If for a certain type of network port only one port is available, that port is connected to the appropriate network complying with the maximum specification of the port. Wireless ports not used shall be deactivated if possible. In the event of verification of requirements set out in Annex II, point 3, the wired network ports not used shall be deactivated if possible.

The unit is put in on mode. Once the unit in on mode is working properly, it is allowed to go into the condition providing networked standby and the power consumption is measured. Then the appropriate trigger is given to the equipment through the network port and a check is made whether the equipment is reactivated. If one physical network port is shared by two or more types of (logical) network ports this procedure is repeated for each type of logical network port, with the other logical network ports being logical-disconnected.'

**ANNEX II**  
**Amendments to Annexes I and II to Regulation (EC) No 107/2009**

- (1) In Annex I, the second paragraph of point 5 is deleted.
- (2) Annex II is replaced by the following:

**‘ANNEX II**

**Product compliance verification by market surveillance authorities**

The verification tolerances defined in this Annex relate only to the verification of the measured parameters by Member State authorities and shall not be used by the manufacturer as an allowed tolerance to establish the values in the technical documentation or in interpreting these values with a view to achieving compliance or to communicate better performance by any means.

When verifying the compliance of a product model with the requirements laid down in this Regulation pursuant to Article 3(2) of Directive 2009/125/EC, for the requirements referred to in this Annex, the authorities of the Member States shall apply the following procedure:

- (1) The Member State authorities shall verify one single unit of the model.
- (2) The model shall be considered to comply with the applicable requirements if:
  - (a) the values given in the technical documentation pursuant to point 2 of Annex IV to Directive 2009/125/EC, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the results of the corresponding measurements carried out pursuant to paragraph (g) thereof; and
  - (b) the values used to determine the compliance of the model, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the values given in the technical documentation file, including in the test reports; and
  - (c) when the Member State authorities test the unit of the model, the measurements obtained for all the parameters and the values calculated from these measurements are within the respective verification tolerances as given in Table 1.
- (3) If the results referred to in points 2(a) and (b) are not achieved, the model shall be considered not to comply with this Regulation.
- (4) If the result referred to in point 2(c) is not achieved, the Member State authorities shall select three additional units of the same model for testing.
- (5) The model shall be considered to comply with the applicable requirements if, for these three units, the arithmetical mean of the values of the relevant parameters as measured in testing and the values calculated from these measurements are within the respective verification tolerances given in Table 1.
- (6) If the result referred to in point 5 is not achieved, the model shall be considered not to comply with this Regulation.
- (7) The Member State authorities shall provide all relevant information to the authorities of the other Member States and to the Commission within one month of a decision being taken on the non-compliance of the model according to points 3 and 6.

The Member State authorities shall use the measurement and calculation methods set out in Annex I.

The Member State authorities shall only apply the verification tolerances that are set out in Table 1 and shall only use the procedure described in points 1 to 7. No other tolerances, such as those set out in harmonised standards or in any other measurement method, shall be applied.

<b>Table 1 — Verification tolerances</b>	
<i>Provisions in Annex I, Points 1 and 2, as applicable</i>	<i>Verification tolerances</i>
For power consumption above 1.00 W	The determined value shall not exceed the declared value by more than 10 %.
For power consumption less than or equal to 1.00 W	The determined value shall not exceed the declared value by more than 0.10 W.

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**ANNEX III**  
**Amendments to Annexes I and II to Regulation (EC) No 278/2009**

- (1) In Annex I, the second paragraph of point 2 is deleted.
- (2) Annex II is replaced by the following:

**‘ANNEX II**

**Product compliance verification by market surveillance authorities**

The verification tolerances defined in this Annex relate only to the verification of the measured parameters by Member State authorities and shall not be used by the manufacturer as an allowed tolerance to establish the values in the technical documentation or in interpreting these values with a view to achieving compliance or to communicate better performance by any means.

When verifying the compliance of a product model with the requirements laid down in this Regulation pursuant to Article 3(2) of Directive 2009/125/EC, for the requirements referred to in this Annex, the authorities of the Member States shall apply the following procedure:

- (1) The Member State authorities shall verify one single unit of the model.
- (2) The model shall be considered to comply with the applicable requirements if:
  - (a) the values given in the technical documentation pursuant to point 2 of Annex IV to Directive 2009/125/EC, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the results of the corresponding measurements carried out pursuant to paragraph (g) thereof; and
  - (b) the values used to determine the compliance of the model and those provided in the product information as required by this Regulation, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the values given in the technical documentation file, including in the test reports; and
  - (c) when the Member State authorities test the unit of the model, the measurements obtained for all the parameters and the values calculated from these measurements are within the respective verification tolerances as given in the table below.
- (3) If the results referred to in points 2(a) and (b) are not achieved, the model shall be considered not to comply with this Regulation.
- (4) If the result referred to in point 2(c) is not achieved, the Member State authorities shall select three additional units of the same model for testing.
- (5) The model shall be considered to comply with the applicable requirements if, for these three units, the arithmetical mean of the values of the relevant parameters as measured in testing and the values calculated from these measurements are within the respective verification tolerances given in the table below.
- (6) If the result referred to in point 5 is not achieved, the model shall be considered not to comply with this Regulation.

- (7) The Member State authorities shall provide all relevant information to the authorities of the other Member States and to the Commission within one month of a decision being taken on the non-compliance of the model according to points 3 and 6.

The Member State authorities shall use the measurement and calculation methods set out in Annex I.

The Member State authorities shall only apply the verification tolerances that are set out in the table below and shall only use the procedure described in points 1 to 7. No other tolerances, such as those set out in harmonised standards or in any other measurement method, shall be applied.

<b>Verification tolerances</b>	
<i>Parameters</i>	<i>Verification tolerances</i>
No-load condition	The determined value shall not exceed the declared value by more than 0.10 W.
Arithmetic average of efficiency at load conditions 1-4 as defined in Annex I	The determined value shall not be lower than the declared value by more than 5 %.

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**ANNEX IV**  
**Amendments to Annex III to Regulation (EC) No 640/2009**

Annex III is replaced by the following:

**‘ANNEX III**  
**Product compliance verification by market surveillance authorities**

The verification tolerances defined in this Annex relate only to the verification of the measured parameters by Member State authorities and shall not be used by the manufacturer as an allowed tolerance to establish the values in the technical documentation or in interpreting these values with a view to achieving compliance or to communicate better performance by any means.

When verifying the compliance of a product model with the requirements laid down in this Regulation pursuant to Article 3(2) of Directive 2009/125/EC, for the requirements referred to in this Annex, the authorities of the Member States shall apply the following procedure:

- (1) The Member State authorities shall verify one single unit of the model.
- (2) The model shall be considered to comply with the applicable requirements if:
  - (a) the values given in the technical documentation pursuant to point 2 of Annex IV to Directive 2009/125/EC, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the results of the corresponding measurements carried out pursuant to paragraph (g) thereof; and
  - (b) the values used to determine the compliance of the model and those provided in the product information as required by this Regulation, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the values given in the technical documentation file, including in the test reports; and
  - (c) when the Member State authorities test the unit of the model, the measurements obtained for all the parameters and the values calculated from these measurements are within the respective verification tolerances as given in Table 3.
- (3) If the results referred to in points 2(a) and (b) are not achieved, the model shall be considered not to comply with this Regulation.
- (4) If the result referred to in point 2(c) is not achieved, the Member State authorities shall select three additional units of the same model for testing.
- (5) The model shall be considered to comply with the applicable requirements if, for these three units, the arithmetical mean of the values of the relevant parameters as measured in testing and the values calculated from these measurements are within the respective verification tolerances given in Table 3.
- (6) If the result referred to in point 5 is not achieved, the model shall be considered not to comply with this Regulation.
- (7) The Member State authorities shall provide all relevant information to the authorities of the other Member States and to the Commission within one month of a decision being taken on the non-compliance of the model according to points 3 and 6.

The Member State authorities shall use the measurement and calculation methods set out in Annex II.

The Member State authorities shall only apply the verification tolerances that are set out in Table 3 and shall only use the procedure described in points 1 to 7. No other tolerances, such as those set out in harmonised standards or in any other measurement method, shall be applied.

<b>Table 3 — Verification tolerances</b>		
<i>Parameters</i>	<i>Motors on the power range 0.75-150 kW</i>	<i>Motors in the power range 150-375 kW</i>
Nominal efficiency ( $\eta$ )	Maximum 15 % below the values given in Annex I	Maximum 10 % below the values given in Annex I
Total losses ( $1-\eta$ )	Maximum 15 % below the values given in Annex I	Maximum 10 % below the values given in Annex I

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**ANNEX V**  
**Amendments to Annex III to Regulation (EC) No 641/2009**

Annex III is replaced by the following:

**‘ANNEX III**  
**Product compliance verification by market surveillance authorities**

The verification tolerances defined in this Annex relate only to the verification of the measured parameters by Member State authorities and shall not be used by the manufacturer as an allowed tolerance to establish the values in the technical documentation or in interpreting these values with a view to achieving compliance or to communicate better performance by any means.

When verifying the compliance of a product model with the requirements laid down in this Regulation pursuant to Article 3(2) of Directive 2009/125/EC, for the requirements referred to in this Annex, the authorities of the Member States shall apply the following procedure:

- (1) The Member State authorities shall verify one single unit of the model.
- (2) The model shall be considered to comply with the applicable requirements if:
  - (a) the values given in the technical documentation pursuant to point 2 of Annex IV to Directive 2009/125/EC, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the results of the corresponding measurements carried out pursuant to paragraph (g) thereof; and
  - (b) the values used to determine the compliance of the model and those provided in the product information as required by this Regulation, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the values given in the technical documentation file, including in the test reports; and
  - (c) when the Member State authorities test the unit of the model, the measurements obtained for all the parameters and the values calculated from these measurements are within the respective verification tolerances as given in Table 1.
- (3) If the results referred to in points 2(a) and b are not achieved, the model shall be considered not to comply with this Regulation.
- (4) If the result referred to in point 2(c) is not achieved, the Member State authorities shall select three additional units of the same model for testing.
- (5) The model shall be considered to comply with the applicable requirements if, for these three units, the arithmetical mean of the values of the relevant parameters as measured in testing and the values calculated from these measurements are within the respective verification tolerances given in Table 1.
- (6) If the result referred to in point 5 is not achieved, the model shall be considered not to comply with this Regulation.
- (7) The Member State authorities shall provide all relevant information to the authorities of the other Member States and to the Commission within one month of a decision being taken on the non-compliance of the model according to points 3 and 6.

The Member State authorities shall use the measurement and calculation methods set out in Annex II.

The Member State authorities shall only apply the verification tolerances that are set out in Table 1 and shall use only the procedure described in points 1 to 7. No other tolerances, such as those set out in harmonised standards or in any other measurement method, shall be applied.

<b>Table 1 — Verification tolerances</b>	
<i>Parameter</i>	<i>Verification tolerance</i>
Energy efficiency index	The determined value shall not exceed the declared value by more than 7 %.

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**ANNEX VI**  
**Amendments to Annexes II and III to Regulation (EC) No 642/2009**

- (1) Annex II is amended as follows
  - (a) The fourth indent of paragraph (c) of part 1 is deleted.
  - (b) Paragraph (b) of part 2 is deleted.
- (2) Annex III is replaced by the following:

**‘ANNEX III**

**Product compliance verification by market surveillance authorities**

The verification tolerances defined in this Annex relate only to the verification of the measured parameters by Member State authorities and shall not be used by the manufacturer as an allowed tolerance to establish the values in the technical documentation or in interpreting these values with a view to achieving compliance or to communicate better performance by any means.

When verifying the compliance of a product model with the requirements laid down in this Regulation pursuant to Article 3(2) of Directive 2009/125/EC, for the requirements referred to in this Annex, the authorities of the Member States shall apply the following procedure:

- (1) The Member State authorities shall verify one single unit of the model.
- (2) The model shall be considered to comply with the applicable requirements if:
  - (a) the values given in the technical documentation pursuant to point 2 of Annex IV to Directive 2009/125/EC, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the results of the corresponding measurements carried out pursuant to paragraph (g) thereof; and
  - (b) the values used to determine the compliance of the model and those provided in the product information as required by this Regulation, and ,where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the values given in the technical documentation file, including in the test reports; and
  - (c) when the Member State authorities test the unit of the model, the measurements obtained for all the parameters and the values calculated from these measurements are within the respective verification tolerances as given in Table 1.
- (3) If the results referred to in points 2(a) and (b) are not achieved, the model shall be considered not to comply with this Regulation.
- (4) If the result referred to in point 2(c) is not achieved, the Member State authorities shall select three additional units of the same model for testing.
- (5) The model shall be considered to comply with the applicable requirements if, for these three units, the arithmetical mean of the values of the relevant parameters as measured in testing and the values calculated from these measurements are within the respective verification tolerances given in Table 1.

- (6) If the result referred to in point 5 is not achieved, the model shall be considered not to comply with this Regulation.
- (7) The Member State authorities shall provide all relevant information to the authorities of the other Member States and to the Commission within one month of a decision being taken on the non-compliance of the model according to points 3 and 6.

The Member State authorities shall use the calculation methods set out in Annex I and the measurement conditions set out in Annex II.

The Member State authorities shall only apply the verification tolerances that are set out in Table 1 and shall only use the procedure described in points 1 to 7. No other tolerances, such as those set out in harmonised standards or in any other measurement method, shall be applied.

<b>Table 1 — Verification tolerances</b>	
<i>Parameters</i>	<i>Verification tolerances</i>
On-mode power consumption limit value given in Annex I, points 1 and 2 of Part 1	The determined value shall not exceed the declared value by more than 7 %.
Off-mode/standby conditions, as applicable, limit values given in Annex I, points 1(a) and (b) and points 2(a) and (b) of Part 2	The determined value shall not exceed the declared value by more than 0.10 W.
Peak luminance ratio given in Annex I, Part 4	The determined value shall not be lower than 60 % of the peak luminance of the brightest on-mode condition provided by the television.

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**ANNEX VII**  
**Amendments to Annex V to Regulation (EC) 643/2009**

Annex V is replaced by the following:

**‘ANNEX V**

**Product compliance verification by market surveillance authorities**

The verification tolerances defined in this Annex relate only to the verification of the measured parameters by Member State authorities and shall not be used by the manufacturer as an allowed tolerance to establish the values in the technical documentation or in interpreting these values with a view to achieving compliance or to communicate better performance by any means.

When verifying the compliance of a product model with the requirements laid down in this Regulation referred to in Article 3(2) of Directive 2009/125/EC, for the requirements referred to in this Annex, the authorities of the Member States shall apply the following procedure:

- (1) The Member State authorities shall verify one single unit of the model.
- (2) The model shall be considered to comply with the applicable requirements if:
  - (a) the values given in the technical documentation pursuant to point 2 of Annex IV to Directive 2009/125/EC, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the results of the corresponding measurements carried out pursuant to paragraph (g) thereof; and
  - (b) the values used to determine the compliance of the model and those provided in the product information as required by this Regulation, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the values given in the technical documentation file, including in the test reports; and
  - (c) when the Member State authorities test the unit of the model, the measurements obtained for all the parameters and the values calculated from these measurements are within the respective verification tolerances as given in Table 1.
- (3) If the results referred to in points 2(a) and (b) are not achieved, the model and all models that have been listed as equivalent household refrigerating appliance models in the manufacturer's or importer's technical documentation shall be considered not to comply with this Regulation.
- (4) If the result referred to in point 2(c) is not achieved, the Member State authorities shall select three additional units of the same model for testing.
- (5) The model shall be considered to comply with the applicable requirements if, for these three units, the arithmetical mean of the values of the relevant parameters as measured in testing and the values calculated from these measurements are within the respective verification tolerances given in Table 1.
- (6) If the result referred to in point 5 is not achieved, the model and all models that have been listed as equivalent household refrigerating appliance models in the manufacturer's or importer's technical documentation shall be considered not to comply with this Regulation.

- (7) The Member State authorities shall provide all relevant information to the authorities of the other Member States and to the Commission within one month of a decision being taken on the non-compliance of the model according to points 3 and 6.

The Member State authorities shall use the measurement and calculation methods set out in Annexes III and IV.

The Member State authorities shall only apply the verification tolerances that are set out in Table 1 and shall only use the procedure described in points 1 to 7. No other tolerances, such as those set out in harmonised standards or in any other measurement method, shall be applied.

<b>Table 1 — Verification tolerances</b>	
<i>Parameters</i>	<i>Verification tolerances</i>
Gross volume	The determined value shall not be less than the declared value by more than 3 % or 1 litre, whichever is the greater value.
Storage volume	The determined value shall not be less than the declared value by more than 3 % or 1 litre, whichever is the greater value. Where the volumes of the cellar compartment and the fresh food storage compartment are adjustable, relative to one another, by the user, this measurement uncertainty applies when the cellar compartment is adjusted to its minimum volume.
Freezing capacity	The determined value shall not be less than the declared value by more than 10 %.
Energy consumption	The determined value shall not exceed the declared value ( $E_{24h}$ ) by more than 10 %.
Power consumption of household refrigerating appliances with a storage volume below 10 litres	The determined value shall not exceed the limit value laid down in Annex II, point 1(2c), by more than 0.10 W at the 95 % confidence level.
Wine storage appliances	The determined value for the relative humidity shall not exceed the nominal range by more than 10 % in any direction.

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**ANNEX VIII**  
**Amendments to Annex III to Regulation (EU) No 1015/2010**

Annex III is replaced by the following:

**‘ANNEX III**

**Product compliance verification by market surveillance authorities**

The verification tolerances defined in this Annex relate only to the verification of the measured parameters by Member State authorities and shall not be used by the manufacturer as an allowed tolerance to establish the values in the technical documentation or in interpreting these values with a view to achieving compliance or to communicate better performance by any means.

When verifying the compliance of a product model with the requirements laid down in this Regulation pursuant to Article 3(2) of Directive 2009/125/EC, for the requirements referred to in this Annex, the authorities of the Member States shall apply the following procedure:

- (1) The Member State authorities shall verify one single unit of the model.
- (2) The model shall be considered to comply with the applicable requirements if:
  - (a) the values given in the technical documentation pursuant to point 2 of Annex IV to Directive 2009/125/EC, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the results of the corresponding measurements carried out pursuant to paragraph (g) thereof; and
  - (b) the values used to determine the compliance of the model, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the values given in the technical documentation file, including in the test reports; and
  - (c) when the Member State authorities test the unit of the model, the measurements obtained for all the parameters and the values calculated from these measurements are within the respective verification tolerances as given in Table 1.
- (3) If the results referred to in points 2(a) and (b) are not achieved, the model and all models that have been listed as equivalent household washing machine models in the manufacturer's or importer's technical documentation shall be considered not to comply with this Regulation.
- (4) If the result referred to in point 2(c) is not achieved, the Member State authorities shall select three additional units of the same model for testing.
- (5) The model shall be considered to comply with the applicable requirements if, for these three units, the arithmetical mean of the values of the relevant parameters as measured in testing and the values calculated from these measurements are within the respective verification tolerances given in Table 1.
- (6) If the result referred to in point 5 is not achieved, the model and all models that have been listed as equivalent household washing machine models in the manufacturer's or importer's technical documentation shall be considered not to comply with this Regulation.

- (7) The Member State authorities shall provide all relevant information to the authorities of the other Member States and to the Commission within one month of a decision being taken on the non-compliance of the model according to points 3 and 6.

The Member State authorities shall use the measurement and calculation methods set out in Annex II.

The Member State authorities shall only apply the verification tolerances that are set out in Table 1 and shall only use the procedure described in points 1 to 7. No other tolerances, such as those set out in harmonised standards or in any other measurement method, shall be applied.

<b>Table 1 — Verification tolerances</b>	
<i>Parameters</i>	<i>Verification tolerances</i>
Annual energy consumption	The determined value shall not exceed the declared value of $AE_C$ by more than 10 %.
Washing efficiency index	The determined value shall not be less than the declared value of $I_W$ by more than 4 %.
Energy consumption	The determined value shall not exceed the declared value of $E_t$ by more than 10 %. Where three additional units need to be selected, the arithmetic mean of the determined values of these three units shall not exceed the declared value of $E_t$ by more than 6 %.
Programme time	The determined values shall not exceed the declared values of $T_t$ by more than 10 %.
Water consumption	The determined value shall not exceed the declared value of $W_t$ by more than 10 %.
Power consumption in off mode and left-on mode	VThe determined values of power consumption $P_o$ and $P_l$ of more than 1.00 W shall not exceed the declared values by more than 10 %. The determined values of power consumption $P_o$ and $P_l$ of less than or equal to 1.00 W shall not exceed the declared values by more than 0.10 W.
Duration of the left-on mode	The determined value shall not exceed the declared value of $T_l$ by more than 10 %.

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**ANNEX IX**  
**Amendments to Annex III to Regulation (EU) No 1016/2010**

Annex III is replaced by the following:

**‘ANNEX III**

**Product compliance verification by market surveillance authorities**

The verification tolerances defined in this Annex relate only to the verification of the measured parameters by Member State authorities and shall not be used by the manufacturer as an allowed tolerance to establish the values in the technical documentation or in interpreting these values with a view to achieving compliance or to communicate better performance by any means.

When verifying the compliance of a product model with the requirements laid down in this Regulation pursuant to Article 3(2) of Directive 2009/125/EC, for the requirements referred to in this Annex, the authorities of the Member States shall apply the following procedure:

- (1) The Member State authorities shall verify one single unit of the model.
- (2) The model shall be considered to comply with the applicable requirements if:
  - (a) the values given in the technical documentation pursuant to point 2 of Annex IV to Directive 2009/125/EC, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the results of the corresponding measurements carried out pursuant to paragraph (g) thereof; and
  - (b) the values used to determine the compliance of the model, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the values given in the technical documentation file, including in the test reports; and
  - (c) when the Member State authorities test the unit of the model, the measurements obtained for all the parameters and the values calculated from these measurements are within the respective verification tolerances as given in Table 1.
- (3) If the results referred to in points 2(a) and (b) are not achieved, the model and all models that have been listed as equivalent household dishwasher models in the manufacturer's or importer's technical documentation shall be considered not to comply with this Regulation.
- (4) If the result referred to in point 2(c) is not achieved, the Member State authorities shall select three additional units of the same model for testing.
- (5) The model shall be considered to comply with the applicable requirements if, for these three units, the arithmetical mean of the values of the relevant parameters as measured in testing and the values calculated from these measurements are within the respective verification tolerances given in Table 1.
- (6) If the result referred to in point 5 is not achieved, the model and all models that have been listed as equivalent household dishwasher models in the manufacturer's or importer's technical documentation shall be considered not to comply with this Regulation.

- (7) The Member State authorities shall provide all relevant information to the authorities of the other Member States and to the Commission within one month of a decision being taken on the non-compliance of the model according to points 3 and 6.

The Member State authorities shall use the measurement and calculation methods set out in Annex II.

The Member State authorities shall only apply the verification tolerances that are set out in Table 1 and shall only use the procedure described in points 1 to 7. No other tolerances, such as those set out in harmonised standards or in any other measurement method, shall be applied.

<b>Table 1 — Verification tolerances</b>	
<i>Parameters</i>	<i>Verification tolerances</i>
Annual energy consumption	The determined value shall not exceed the declared value of $AE_C$ by more than 10 %.
Cleaning efficiency index	The determined value shall not be less than the declared value of $I_C$ by more than 10 %.
Drying efficiency index	The determined value shall not be less than the declared value of $I_D$ by more than 19 %.
Energy consumption	The determined value shall not exceed the declared value of $E_t$ by more than 10 %. Where three additional units need to be selected, the arithmetic mean of the determined values of these three units shall not exceed the declared value of $E_t$ by more than 6 %.
Programme time	The determined value shall not exceed the declared values $T_t$ by more than 10 %.
Power consumption in off mode and left-on mode	The determined values of power consumption $P_o$ and $P_l$ of more than 1.00 W shall not exceed the declared values by more than 10 %. The determined values of power consumption $P_o$ and $P_l$ of less than or equal to 1.00 W shall not exceed the declared values by more than 0.10 W.
Duration of left-on mode	The determined value shall not exceed the declared value of $T_1$ by more than 10 %.

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**ANNEX X**  
**Amendments to Annex III to Regulation (EU) No 327/2011**

Annex III is replaced by the following:

**‘ANNEX III**  
**Product compliance verification by market surveillance authorities**

The verification tolerances defined in this Annex relate only to the verification of the measured parameters by Member State authorities and shall not be used by the manufacturer as an allowed tolerance to establish the values in the technical documentation or in interpreting these values with a view to achieving compliance or to communicate better performance by any means.

When verifying the compliance of a product model with the requirements laid down in this Regulation pursuant to Article 3(2) of Directive 2009/125/EC, for the requirements referred to in this Annex, the authorities of the Member States shall apply the following procedure:

- (1) The Member State authorities shall verify one single unit of the model.
- (2) The model shall be considered to comply with the applicable requirements if:
  - (a) the values given in the technical documentation pursuant to point 2 of Annex IV to Directive 2009/125/EC, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the results of the corresponding measurements carried out pursuant to paragraph (g) thereof; and
  - (b) the values used to determine the compliance of the model and those provided in the product information as required by this Regulation, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the values given in the technical documentation file, including in the test reports; and
  - (c) when the Member State authorities test the unit of the model, the measurements obtained for all the parameters and the values calculated from these measurements are within the respective verification tolerances as given in Table 3.
- (3) If the results referred to in points 2(a) and (b) are not achieved, the model shall be considered not to comply with this Regulation.
- (4) If the result referred to in point 2(c) is not achieved:
  - for models that are produced in quantities of less than five per year, the model shall be considered not to comply with this Regulation;
  - for models that are produced in quantities of five or more per year, the Member State authorities shall select three additional units of the same model for testing. The models shall be considered to comply with the applicable requirements if, for these three units, the arithmetical mean of the values of the relevant parameters as measured in testing and the values calculated from these measurements are within the respective verification tolerances given in Table 3.
- (5) If the result referred to in point 4 is not achieved, the model shall be considered not to comply with this Regulation.

- (6) The Member State authorities shall provide all relevant information to the authorities of the other Member States and to the Commission within one month of a decision being taken on the non-compliance of the model according to points 3 and 5.

The Member State authorities shall use the measurement and calculation methods set out in Annex II.

The Member State authorities shall only apply the verification tolerances that are set out in Table 3 and shall only use the procedure described in points 1 to 6. No other tolerances, such as those set out in harmonised standards or in any other measurement method, shall be applied.

<b>Table 3 — Verification tolerances</b>	
<i>Parameter</i>	<i>Verification tolerance</i>
Overall efficiency ( $\eta_e$ )	The determined value shall not be lower than the declared value by more than 10 %.

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**ANNEX XI**  
**Amendments to Annex III to Regulation (EU) No 206/2012**

Annex III is replaced by the following:

**‘ANNEX III**  
**Product compliance verification by market surveillance authorities**

The verification tolerances defined in this Annex relate only to the verification of the measured parameters by Member State authorities and shall not be used by the manufacturer as an allowed tolerance to establish the values in the technical documentation or in interpreting these values with a view to achieving compliance or to communicate better performance by any means.

When verifying the compliance of a product model with the requirements laid down in this Regulation pursuant to Article 3(2) of Directive 2009/125/EC, for the requirements referred to in this Annex, the authorities of the Member States shall apply the following procedure:

- (1) The Member State authorities shall verify one single unit of the model.
- (2) The model shall be considered to comply with the applicable requirements if:
  - (a) the values given in the technical documentation pursuant to point 2 of Annex IV to Directive 2009/125/EC, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the results of the corresponding measurements carried out pursuant to paragraph (g) thereof; and
  - (b) the values used to determine the compliance of the model and those provided in the product information as required by this Regulation, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the values given in the technical documentation file, including in the test reports; and
  - (c) when the Member State authorities test the unit of the model, the measurements obtained for all the parameters and the values calculated from these measurements are within the respective verification tolerances as given in Table 1.
- (3) If the results referred to in points 2(a) and (b) are not achieved, the model shall be considered not to comply with this Regulation.
- (4) If the result referred to in point 2(c) is not achieved, the Member State authorities shall select three additional units of the same model for testing.
- (5) The model shall be considered to comply with the applicable requirements if, for these three units, the arithmetical mean of the values of the relevant parameters as measured in testing and the values calculated from these measurements are within the respective verification tolerances given in Table 1.
- (6) If the result referred to in point 5 is not achieved, the model shall be considered not to comply with this Regulation.
- (7) The Member State authorities shall provide all relevant information to the authorities of the other Member States and to the Commission within one month of a decision being taken on the non-compliance of the model according to points 3 and 6.

The Member State authorities shall use the measurement and calculation methods set out in Annex II.

The Member State authorities shall only apply the verification tolerances that are set out in Table 1 and shall only use the procedure described in points 1 to 7. No other tolerances, such as those set out in harmonised standards or in any other measurement method, shall be applied.

<b>Table 1 — Verification tolerances</b>	
<i>Parameters</i>	<i>Verification tolerances</i>
Seasonal energy efficiency ratio (SEER)	The determined value shall not be lower than the declared value by more than 8 %.
Seasonal coefficient of performance (SCOP)	The determined value shall not be lower than the declared value by more than 8 %.
Power consumption in off mode	The determined value shall not exceed the declared value by more than 10 %.
Power consumption in standby mode	The determined value shall not be lower than the declared value by more than 10 %.
Energy efficiency ratio ( $EER_{rated}$ )	The determined value shall not be lower than the declared value by more than 10 %.
Coefficient of performance ( $COP_{rated}$ )	The determined value shall not be lower than the declared value by more than 10 %.
Sound power level	The determined value shall not exceed the declared value by more than 2 dB(A).

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**ANNEX XII**  
**Amendments to Annex IV to Regulation (EU) No 547/2012**

Annex IV is replaced by the following:

**‘ANNEX IV**

**Product compliance verification by market surveillance authorities**

The verification tolerances defined in this Annex relate only to the verification of the measured parameters by Member State authorities and shall not be used by the manufacturer as an allowed tolerance to establish the values in the technical documentation or in interpreting these values with a view to achieving compliance or to communicate better performance by any means.

When verifying the compliance of a product model with the requirements laid down in Annex II to this Regulation pursuant to Article 3(2) of Directive 2009/125/EC, for the requirements referred to in this Annex, the authorities of the Member States shall apply the following procedure:

- (1) The Member State authorities shall verify one single unit of the model.
- (2) The model shall be considered to comply with the applicable requirements if:
  - (a) the values given in the technical documentation pursuant to point 2 of Annex IV to Directive 2009/125/EC, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the results of the corresponding measurements carried out pursuant to paragraph (g) thereof; and
  - (b) the values used to determine the compliance of the model and those provided in the product information as required by this Regulation, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the values given in the technical documentation file, including in the test reports; and
  - (c) when the Member State authorities test the unit of the model, the measured parameters and the values calculated from these measurements are not lower than the declared parameters and values by more than the respective verification tolerance of 5 %.
- (3) If the results referred to in points 2(a) or (b) are not achieved, the model shall be considered not to comply with this Regulation.
- (4) If the result referred to in point 2(c) is not achieved, the Member State authorities shall select three additional units of the same model for testing.
- (5) The model shall be considered to comply with the applicable requirements if, for these three units, the arithmetical mean of the values of the relevant parameters as measured in testing and the values calculated from these measurements are not lower than the declared parameters and values by more than the respective verification tolerances of 5 %.
- (6) If the result referred to in point 5 is not achieved, the model shall be considered not to comply with this Regulation.

- (7) The Member State authorities shall provide all relevant information to the authorities of the other Member States and to the Commission within one month of a decision being taken on the non-compliance of the model according to points 3 and 6.

The Member State authorities shall use the measurement and calculation methods set out in Annex III.

The Member State authorities shall only apply the verification tolerance of 5 % and shall only use the procedure described in points 1 to 7. No other tolerances, such as those set out in harmonised standards or in any other measurement method, shall be applied.’

**ANNEX XIII**  
**Amendments to Annex III to Regulation (EU) No 932/2012**

Annex III is replaced by the following:

**‘ANNEX III**

**Product compliance verification by market surveillance authorities**

The verification tolerances defined in this Annex relate only to the verification of the measured parameters by Member State authorities and shall not be used by the manufacturer as an allowed tolerance to establish the values in the technical documentation or in interpreting these values with a view to achieving compliance or to communicate better performance by any means.

When verifying the compliance of a product model with the requirements laid down in this Regulation pursuant to Article 3(2) of Directive 2009/125/EC, for the requirements referred to in this Annex, the authorities of the Member States shall apply the following procedure:

- (1) The Member State authorities shall verify one single unit of the model.
- (2) The model shall be considered to comply with the applicable requirements if:
  - (a) the values given in the technical documentation pursuant to point 2 of Annex IV to Directive 2009/125/EC, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the results of the corresponding measurements carried out pursuant to paragraph (g) thereof; and
  - (b) the values used to determine the compliance of the model, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the values given in the technical documentation file, including in the test reports; and
  - (c) when the Member State authorities test the unit of the model, the measurements obtained for all the parameters and the values calculated from these measurements are within the respective verification tolerances as given in Table 1.
- (3) If the results referred to in points 2(a) and (b) are not achieved, the model and all models that have been listed as equivalent household tumble drier models in the manufacturer's or importer's technical documentation shall be considered not to comply with this Regulation.
- (4) If the result referred to in point 2(c) is not achieved, the Member State authorities shall select three additional units of the same model for testing.
- (5) The model shall be considered to comply with the applicable requirements if, for these three units, the arithmetical mean of the values of the relevant parameters as measured in testing and the values calculated from these measurements are within the respective verification tolerances given in Table 1.
- (6) If the result referred to in point 5 is not achieved, the model and all models that have been listed as equivalent household tumble drier models in the manufacturer's or importer's technical documentation shall be considered not to comply with this Regulation.

- (7) The Member State authorities shall provide all relevant information to the authorities of the other Member States and to the Commission within one month of a decision being taken on the non-compliance of the model according to points 3 and 6.

The Member State authorities shall use measurement procedures which take into account the generally recognised, state-of-the-art, reliable, accurate and reproducible measurement methods, including methods set out in documents whose reference numbers have been published for that purpose in the Official Journal of the European Union. The Member State authorities shall use the measurement and calculation methods set out in Annex II.

The Member State authorities shall only apply the verification tolerances that are set out in Table 1 and shall use only the procedure described in points 1 to 7. No other tolerances, such as those set out in harmonised standards or in any other measurement method, shall be applied.

<b>Table 1 — Verification tolerances</b>	
<i>Parameters</i>	<i>Verification tolerances</i>
Weighted annual energy consumption	The determined value shall not exceed the declared value of $AE_C$ by more than 6 %.
Weighted energy consumption	The determined value shall not exceed the declared value of $E_t$ by more than 6 %.
Weighted condensation efficiency	The determined value shall not be less than the declared value of $C_t$ by more than 6 %.
Weighted programme time	The determined values shall not exceed the declared values of $T_t$ by more than 6 %.
Power consumption in off mode and left-on mode	The determined values of power consumption $P_o$ and $P_l$ of more than 1.00 W shall not exceed the declared values by more than 6 %. The determined values of power consumption $P_o$ and $P_l$ of less than or equal to 1.00 W shall not exceed the declared values by more than 0.10 W.
Duration of the left-on mode	The determined value shall not exceed the declared value of $T_1$ by more than 6 %.

## ANNEX XIV

### **Amendments to Annexes II and III to Regulation (EU) No 617/2013**

- (1) In Annex II, point 6.2.1. is replaced by the following:  
‘6.2.1 The computer shall reduce the speed of any active 1 Gigabit per second (Gb/s) or higher ethernet network link when transitioning to sleep or off-with-WOL mode.’
- (2) Annex III is replaced by the following:

#### **‘ANNEX III**

#### **Measurements and product compliance verification by market surveillance authorities**

The verification tolerances defined in this Annex relate only to the verification of the measured parameters by Member State authorities and shall not be used by the manufacturer as an allowed tolerance to establish the values in the technical documentation or in interpreting these values with a view to achieving compliance or to communicate better performance by any means.

#### **1. MEASUREMENTS**

For the purposes of compliance and verification of compliance with the applicable requirements of this Regulation, measurements and calculations shall be made using harmonised standards, the reference numbers of which have been published in the *Official Journal of the European Union*, or using other reliable, accurate and reproducible methods which take into account the generally recognised state of the art, and produce results deemed to be of low uncertainty.

Computers placed on the market without an operating system capable of supporting an Advanced Configuration and Power Interface (ACPI) system or similar, shall be tested with an ACPI (or similar) supporting operating system.

#### **2. PRODUCT COMPLIANCE VERIFICATION BY MARKET SURVEILLANCE AUTHORITIES**

When verifying the compliance of a product model with the requirements laid down in Annex II to this Regulation pursuant to Article 3(2) of Directive 2009/125/EC, for the requirements referred to in this Annex, the authorities of the Member States shall apply the following procedure:

- (1) The Member State authorities shall verify one single unit of the model or model configuration.
- (2) The model or model configuration shall be considered to comply with the applicable requirements if:
  - (a) the values given in the technical documentation pursuant to point 2 of Annex IV to Directive 2009/125/EC, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the results of the corresponding measurements carried out pursuant to paragraph (g) thereof; and
  - (b) the values used to determine the compliance of the model or model configuration and those provided in the product information as required by this Regulation and, where applicable, the values used to calculate these values, are

not more favourable for the manufacturer or importer than the values given in the technical documentation file, including in the test reports; and

- (c) when the Member State authorities test the unit of the model, or model configuration according to parts 3 to 5 of this Annex, the measurements obtained for all the parameters and the values calculated from these measurements are within the respective verification tolerances given in parts 3 and 4 of this Annex, and the model or model configuration meets the requirements for power management enabling given in part 5 of this Annex.
- (3) If the results referred to in points 2(a) and (b) are not achieved, the model and all model configurations that are covered by the same product information (according to Annex II points 7.1.2 and 7.3.2) shall be considered not to comply with this Regulation.
- (4) If the result referred to in point 2(c) is not achieved, the Member State authorities shall select for testing three additional units of the same model or one or more model configurations that are covered by the same product information (according to Annex II points 7.1.2 and 7.3.2).
- (5) The model or model configuration shall be considered to comply with the applicable requirements if, for these three units, the arithmetical mean of the values of the relevant parameters as measured in testing and the values calculated from these measurements are within the respective tolerances given in parts 3 and 4 of this Annex, and if the units all meet the requirements for power management enabling given in part 5 of this Annex.
- (6) If the result referred to in point 5 is not achieved, the model and all model configurations that are covered by the same product information (provided pursuant to Annex II points 7.1.2 and 7.3.2) shall be considered not to comply with this Regulation.
- (7) The Member State authorities shall provide all relevant information to the authorities of the other Member States and to the Commission within one month of a decision being taken on the non-compliance of the model according to points 3 and 6.

The Member State authorities shall use the measurement and calculation methods set out in this Annex.

The Member State authorities shall only apply the verification tolerances that are set out in parts 3 and 4 of this Annex and shall only use the procedure described in points 1 to 7. No other tolerances shall be applied.

**3. E<sub>TEC</sub>, SLEEP MODE, OFF MODE AND LOWEST POWER STATE:**

- (1) For power demand requirements larger than 1.00 W, or where energy consumption requirements formulated in TEC result in a power demand requirement larger than 1.00 W in at least one power mode, the model configuration shall be considered to comply with the applicable requirements set out in points 1.1, 1.2, 1.3, 1.4 and 2.3 of Annex II if the test results for the applicable limit values do not exceed the respective verification tolerances given in the table below.

<b>Verification tolerances for power demand requirements larger than 1.00 W</b>	
<i>Requirements set out</i>	<i>Maximum allowance</i>

Points 1.1, 1.2, 1.3, 1.4 and 2.3 of Annex II	The determined value shall not exceed the declared value by more than 7 %.
Point 2.2 of Annex II (with and without the additional allowance listed in point 2.4)	The determined value shall not exceed the declared value by more than 7 %.

The additional allowances provided for in point 2.4 of Annex II can be added to the requirement specified in point 2.2 if the model configuration is placed on the market with a WOL functionality enabled in sleep mode. The model configuration should be tested with WOL functionality both enabled and disabled and should comply with both requirements. The model configuration placed on the market without ethernet capability shall be tested without WOL enabled.

- (2) For power demand requirements less than or equal to 1.00 W, the model configuration shall be considered to comply with the applicable requirements set out in point 3.1 of Annex II if the test results for the applicable limit values do not exceed the respective verification tolerances given in the table below.

<b>Verification tolerances for power demand requirements of 1.00 W and smaller</b>	
<i>Requirements set out</i>	<i>Maximum allowance</i>
Point 3.1 of Annex II (with and without the additional allowance specified in point 3.3)	The determined value shall not exceed the declared value by more than 0.10 W.
Point 4.1 of Annex II (with and without the additional allowances listed in point 4.3)	The determined value shall not exceed the declared value by more than 0.10 W.

The additional allowance provided for in point 3.3 of Annex II can be added to the requirement specified in point 3.1 if the model configuration is placed on the market with an ‘information or status display’.

The additional allowance provided for in point 4.3 of Annex II can be added to the requirement set out in point 4.1 if the model configuration is placed on the market with a WOL functionality enabled in off mode. The model configuration should be tested with WOL functionality both enabled and disabled and should comply with both requirements. The model configuration placed on the market without ethernet capability shall be tested without WOL enabled.

#### **4. INTERNAL POWER SUPPLY EFFICIENCY**

The model shall be considered to comply with the requirements set out in point 5 of Annex II if the test results for the applicable limit values do not exceed the respective verification tolerances given in the table below.

<b>Verification tolerances for internal power supply efficiency</b>	
<i>Requirements set out</i>	<i>Maximum allowance</i>
The arithmetic average of the efficiency at load conditions as defined in Annex II falls below the applicable limit value for average	The determined value shall not be lower than the declared value by more than 2 %.

active efficiency.	
The arithmetic average of the power factor as defined in Annex II falls below the applicable limit value for the power factor.	The determined value shall not be lower than the declared value by more than 10 %.

## 5. POWER MANAGEMENT ENABLING

When verifying compliance with the requirements set out in point 6.1 of Annex II, Member State authorities shall use the applicable procedure to measure the power demand after the power management function or a similar function has switched the equipment into the applicable power mode.

When verifying compliance with the requirements set out in points 6.2.1 to 6.2.6 of Annex II, the model configuration shall be considered to comply with the applicable requirements set out in:

- point 6.2.1, if the speed of any active 1 gigabit per second (Gb/s) or higher ethernet network link of a desktop computer, integrated desktop computer or notebook computer is reduced when the computer transitions to sleep or off-with-WOL mode;
- point 6.2.2, if a desktop computer, integrated desktop computer or notebook computer becomes fully usable, including rendering of any connected display, within 5 seconds after a wake event is initiated during sleep mode;
- point 6.2.3, if a display connected to a desktop computer, integrated desktop computer or notebook computer enters sleep mode within 10 minutes of user inactivity;
- point 6.2.4, if a WOL function for sleep and off mode can be enabled and disabled;
- point 6.2.5, if a desktop computer, integrated desktop computer or notebook computer enters sleep mode within 30 minutes of user inactivity;
- point 6.2.6, if users are able to easily activate and deactivate any wireless network connections and users are given a clear indication through a symbol, light or equivalent when wireless network connections have been activated or deactivated.’



**ANNEX XV**  
**Amendments to Annex III to Regulation (EU) No 666/2013**

Annex III is replaced by the following:

**‘ANNEX III**

**Product compliance verification by market surveillance authorities**

The verification tolerances defined in this Annex relate only to the verification of the measured parameters by Member State authorities and shall not be used by the manufacturer as an allowed tolerance to establish the values in the technical documentation or in interpreting these values with a view to achieving compliance or to communicate better performance by any means.

When verifying the compliance of a product model with the requirements laid down in this Regulation pursuant to Article 3(2) of Directive 2009/125/EC, for the requirements referred to in this Annex, the authorities of the Member States shall apply the following procedure:

- (1) The Member State authorities shall verify one single unit of the model.
- (2) The model shall be considered to comply with the applicable requirements if:
  - (a) the values given in the technical documentation pursuant to point 2 of Annex IV to Directive 2009/125/EC, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the results of the corresponding measurements carried out pursuant to paragraph (g) thereof; and
  - (b) the values used to determine the compliance of the model and those provided in the product information as required by this Regulation, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the values given in the technical documentation file, including in the test reports; and
  - (c) when the Member State authorities test the unit of the model, the measurements obtained for all the parameters and the values calculated from these measurements are within the respective verification tolerances as given in Table 1.
- (3) If the results referred to in points 2(a) and (b) are not achieved, the model and all models that have been listed as equivalent vacuum cleaner models in the manufacturer's or importer's technical documentation shall be considered not to comply with this Regulation.
- (4) If the result referred to in point 2(c) is not achieved, the Member State authorities shall select three additional units of the same model for testing. As an alternative, the three additional units selected may be of one or more different models that have been listed as equivalent vacuum cleaner in the manufacturer's or importer's technical documentation.
- (5) The model shall be considered to comply with the applicable requirements if, for these three units, the arithmetical mean of the values of the relevant parameters as measured in testing and the values calculated from these measurements are within the respective verification tolerances given in Table 1.

- (6) If the result referred to in point 5 is not achieved, the model and all models that have been listed as equivalent vacuum cleaner models in the manufacturer's or importer's technical documentation shall be considered not to comply with this Regulation.
- (7) The Member State authorities shall provide all relevant information to the authorities of the other Member States and to the Commission within one month of a decision being taken on the non-compliance of the model according to points 3 and 6.

The Member State authorities shall use the measurement and calculation methods set out in Annex II.

The Member State authorities shall only apply the verification tolerances that are set out in Table 1 and shall only use the procedure described in points 1 to 7. No other tolerances, such as those set out in harmonised standards or in any other measurement method, shall be applied.

<b>Table 1 — Verification tolerances</b>	
<i>Parameters</i>	<i>Verification tolerances</i>
Annual energy consumption	The determined value shall not exceed the declared value by more than 10 %.
Dust pick up on carpet	The determined value shall not be lower than the declared value by more than 0.03.
Dust pick up on hard floor	The determined value shall not be lower than the declared value by more than 0.03.
Dust re-emission	The determined value shall not exceed the declared value by more than 15 %.
Sound power level	The determined value shall not exceed the declared value.
Operational motor lifetime	The determined value shall not be lower than the declared value by more than 5 %.

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**ANNEX XVI**  
**Amendments to Annex IV to Regulation (EU) No 813/2013**

Annex IV is replaced by the following:

**‘ANNEX IV**  
**Product compliance verification by market surveillance authorities**

The verification tolerances defined in this Annex relate only to the verification of the measured parameters by Member State authorities and shall not be used by the manufacturer as an allowed tolerance to establish the values in the technical documentation or in interpreting these values with a view to achieving compliance or to communicate better performance by any means.

When verifying the compliance of a product model with the requirements laid down in this Regulation pursuant to Article 3(2) of Directive 2009/125/EC, for the requirements referred to in this Annex, the authorities of the Member States shall apply the following procedure:

- (1) The Member State authorities shall verify one single unit of the model.
- (2) The model shall be considered to comply with the applicable requirements if:
  - (a) the values given in the technical documentation pursuant to point 2 of Annex IV to Directive 2009/125/EC, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the results of the corresponding measurements carried out pursuant to paragraph (g) thereof; and
  - (b) the values used to determine the compliance of the model and those provided in the product information as required by this Regulation, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the values given in the technical documentation file, including in the test reports; and
  - (c) when the Member State authorities test the unit of the model, the measurements obtained for all the parameters and the values calculated from these measurements are within the respective verification tolerances as given in Table 8.
- (3) If the results referred to in points 2(a) and (b) are not achieved, the model and all other equivalent models shall be considered not to comply with this Regulation.
- (4) If the result referred to in point 2(c) is not achieved, the Member State authorities shall select three additional units of the same model for testing.
- (5) The model shall be considered to comply with the applicable requirements if, for these three units, the arithmetical mean of the values of the relevant parameters as measured in testing and the values calculated from these measurements are within the respective verification tolerances given in Table 8.
- (6) If the result referred to in point 5 is not achieved, the model and all other equivalent models shall be considered not to comply with this Regulation.
- (7) The Member State authorities shall provide all relevant information to the authorities of the other Member States and to the Commission within one month of a decision being taken on the non-compliance of the model according to points 3 and 6.

The Member State authorities shall use the measurement and calculation methods set out in Annex III.

The Member State authorities shall only apply the verification tolerances that are set out in Table 8 and shall only use the procedure described in points 1 to 7. No other tolerances, such as those set out in harmonised standards or in any other measurement method, shall be applied.

<b>Table 8 — Verification tolerances</b>	
<i>Parameters</i>	<i>Verification tolerances</i>
Seasonal space-heating energy efficiency, $\eta_s$	The determined value shall not be lower than the declared value by more than 8 %.
Water-heating energy efficiency, $\eta_{wh}$	The determined value shall not be lower than the declared value by more than 8 %.
Sound power level	The determined value shall not exceed the declared value by more than 2 dB(A).
Emissions of nitrogen oxides	The determined value shall not exceed the declared value by more than 20 %.

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**ANNEX XVII**  
**Amendments to Annex V to Regulation (EU) No 814/2013**

Annex V is replaced by the following:

**‘ANNEX V**  
**Product compliance verification by market surveillance authorities**

The verification tolerances defined in this Annex relate only to the verification of the measured parameters by Member State authorities and shall not be used by the manufacturer as an allowed tolerance to establish the values in the technical documentation or in interpreting these values with a view to achieving compliance or to communicate better performance by any means.

When verifying the compliance of a product model with the requirements laid down in this Regulation pursuant to Article 3(2) of Directive 2009/125/EC, for the requirements referred to in this Annex, the authorities of the Member States shall apply the following procedure:

- (1) The Member State authorities shall verify one single unit of the model.
- (2) The model shall be considered to comply with the applicable requirements if:
  - (a) the values given in the technical documentation pursuant to point 2 of Annex IV to Directive 2009/125/EC, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the results of the corresponding measurements carried out pursuant to paragraph (g) thereof; and
  - (b) the values used to determine the compliance of the model and those provided in the product information as required by this Regulation, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the values given in the technical documentation file, including in the test reports; and
  - (c) when the Member State authorities test the unit of the model, the measurements obtained for all the parameters and the values calculated from these measurements are within the respective verification tolerances as given in Table 7.
- (3) If the results referred to in points 2(a) and (b) are not achieved, the model and all models that have been listed as equivalent water heater models or hot water storage tanks models in the manufacturer's or importer's technical documentation shall be considered not to comply with this Regulation.
- (4) If the result referred to in point 2(c) is not achieved, the Member State authorities shall select three additional units of the same model for testing.
- (5) The model shall be considered to comply with the applicable requirements if, for these three units, the arithmetical mean of the values of the relevant parameters as measured in testing and the values calculated from these measurements are within the respective verification tolerances given in Table 7.
- (6) If the result referred to in point 5 is not achieved, the model and all models that have been listed as equivalent water heater models or hot water storage tanks models in the manufacturer's or importer's technical documentation shall be considered not to comply with this Regulation.

- (7) The Member State authorities shall provide all relevant information to the authorities of the other Member States and to the Commission within one month of a decision being taken on the non-compliance of the model according to points 3 and 6.

The Member State authorities shall use the measurement and calculation methods set out in Annex III and Annex IV.

The Member State authorities shall only apply the verification tolerances that are set out in Table 7 and shall only use the procedure described in points 1 to 7. No other tolerances, such as those set out in harmonised standards or in any other measurement method, shall be applied.

<b>Table 7 — Verification tolerances</b>	
<i>Parameters</i>	<i>Verification tolerances</i>
Daily electricity consumption, $Q_{elec}$	The determined value shall not exceed the declared value by more than 5 %.
Sound power level, $L_{WA}$ , indoors and/or outdoors	The determined value shall not exceed the declared value by more than 2 dB.
Daily fuel consumption, $Q_{fuel}$	The determined value shall not exceed the declared value by more than 5 %.
Emissions of nitrogen oxides	The determined value shall not exceed the declared value by more than 20 %.
Weekly fuel consumption with smart controls, $Q_{fuel,week,smart}$	The determined value shall not exceed the declared value by more than 5 %.
Weekly electricity consumption with smart controls, $Q_{elec,week,smart}$	The determined value shall not exceed the declared value by more than 5 %.
Weekly fuel consumption without smart controls, $Q_{fuel,week}$	The determined value shall not exceed the declared value by more than 5 %.
Weekly electricity consumption without smart controls, $Q_{elec,week}$	The determined value shall not exceed the declared value by more than 5 %.
Storage volume, $V$	The determined value shall not be lower than the declared value by more than 2 %.
Mixed water at 40°C, $V_{40}$	The determined value shall not be lower than the declared value by more than 3 %.
Collector aperture area, $A_{sol}$	The determined value shall not be lower than the declared value by more than 2 %.
Pump power consumption, $sol_{pump}$	The determined value shall not exceed the declared value by more than 3 %.
Standby power consumption, $sol_{standby}$	The determined value shall not exceed the declared value by more than 5 %.

Standing loss, $S$	The determined value shall not exceed the declared value by more than 5 %.
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**ANNEX XVIII**  
**Amendments to Annex III to Regulation (EU) No 66/2014**

Annex III is replaced by the following:

**‘ANNEX III**

**Product compliance verification by market surveillance authorities**

The verification tolerances defined in this Annex relate only to the verification of the measured parameters by Member State authorities and shall not be used by the manufacturer as an allowed tolerance to establish the values in the technical documentation or in interpreting these values with a view to achieving compliance or to communicate better performance by any means.

When verifying the compliance of a product model with the requirements laid down in this Regulation pursuant to Article 3(2) of Directive 2009/125/EC, for the requirements referred to in this Annex, the authorities of the Member States shall apply the following procedure:

- (1) The Member State authorities shall verify one single unit of the model.
- (2) The model shall be considered to comply with the applicable requirements if:
  - (a) the values given in the technical documentation pursuant to point 2 of Annex IV to Directive 2009/125/EC, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the results of the corresponding measurements carried out pursuant to paragraph (g) thereof; and
  - (b) the values used to determine the compliance of the model and those provided in the product information as required by this Regulation, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the values given in the technical documentation file, including in the test reports; and
  - (c) when the Member State authorities test the unit of the model, the measurements obtained for all the parameters and the values calculated from these measurements are within the respective verification tolerances as given in Table 7.
- (3) If the results referred to in points 2(a) and (b) are not achieved, the model and all models that have been listed as equivalent models in the manufacturer's or importer's technical documentation shall be considered not to comply with this Regulation.
- (4) If the result referred to in point 2(c) is not achieved, the Member State authorities shall select three additional units of the same model for testing. As an alternative, the three additional units selected may be of one or more different models that have been listed as equivalent models in the manufacturer's or importer's technical documentation.
- (5) The model shall be considered to comply with the applicable requirements if, for these three units, the arithmetical mean of the values of the relevant parameters as measured in testing and the values calculated from these measurements are within the respective verification tolerances given in Table 7.



- (6) If the result referred to in point 5 is not achieved, the model and all models that have been listed as equivalent models in the manufacturer's or importer's technical documentation shall be considered not to comply with this Regulation.
- (7) The Member State authorities shall provide all relevant information to the authorities of the other Member States and to the Commission within one month of a decision being taken on the non-compliance of the model according to points 3 and 6.

The Member State authorities shall use the measurement and calculation methods set out in Annex II.

The Member State authorities shall only apply the verification tolerances that are set out in Table 7 and shall only use the procedure described in points 1 to 7. No other tolerances, such as those set out in harmonised standards or in any other measurement method, shall be applied.

<b>Table 7 — Verification tolerances</b>	
<i>Parameters</i>	<i>Verification tolerances</i>
Mass of the domestic oven, $M$	The determined value shall not exceed the declared value of $M$ by more than 5 %.
Volume of the cavity of the domestic oven, $V$	The determined value shall not be lower than the declared value of $V$ by more than 5 %.
$EC_{electric\ cavity}$ , $EC_{gas\ cavity}$	The determined values shall not exceed the declared values of $EC_{electric\ cavity}$ and $EC_{gas\ cavity}$ by more than 5 %.
$EC_{electric\ hob}$	The determined value shall not exceed the declared value of $EC_{electric\ hob}$ by more than 5 %.
$EE_{gas\ hob}$	The determined value shall not be lower than the declared value of $EE_{gas\ hob}$ by more than 5 %.
$W_{BEP}$ , $W_L$	The determined value shall not exceed the declared value of $W_{BEP}$ and $W_L$ by more than 5 %.
$Q_{BEP}$ , $P_{BEP}$	The determined values shall not be lower than the declared values of $Q_{BEP}$ and $P_{BEP}$ by more than 5 %.
$Q_{max}$	The determined value shall not exceed the declared value of $Q_{max}$ by more than 8 %.
$E_{middle}$	The determined value shall not be lower than the declared value of $E_{middle}$ by more than 5 %.
Sound power level, $L_{WA}$	The determined value shall not exceed the declared value.
$P_o$ , $P_s$	The determined values of power consumption $P_o$ and $P_s$ shall not exceed the declared values by more than 10 %. The determined values of power consumption $P_o$ and $P_s$ of less than or equal to 1.00 W shall not exceed the declared values by more than 0.10 W.

**ANNEX XIX**  
**Amendments to Annex III to Regulation (EU) No 548/2014**

Annex III is replaced by the following:

**‘ANNEX III**

**Product compliance verification by market surveillance authorities**

The verification tolerances defined in this Annex relate only to the verification of the measured parameters by Member State authorities and shall not be used by the manufacturer as an allowed tolerance to establish the values in the technical documentation or in interpreting these values with a view to achieving compliance or to communicate better performance by any means.

When verifying the compliance of a product model with the requirements laid down in this Regulation and its Annexes pursuant to Article 3(2) of Directive 2009/125/EC, for the requirements referred to in this Annex, the authorities of the Member States shall apply the following procedure:

- (1) The Member State authorities shall verify one single unit of the model. Given the weight and size limitations in the transportation of medium and large power transformers, Member States authorities may decide to undertake the verification procedure at the premises of manufacturers, before they are put into service in their final destination.
- (2) The model shall be considered to comply with the applicable requirements if:
  - (a) the values given in the technical documentation pursuant to point 2 of Annex IV to Directive 2009/125/EC, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the results of the corresponding measurements carried out pursuant to paragraph (g) thereof; and
  - (b) the values used to determine the compliance of the model and those provided in the product information as required by this Regulation, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the values given in the technical documentation file, including in the test reports; and
  - (c) when the Member State authorities test the unit of the model, the measurements obtained for all the parameters and the values calculated from these measurements are within the respective verification tolerances as given in Table 1.
- (3) If the results referred to in points 2(a), (b) and (c) are not achieved, the model shall be considered not to comply with this Regulation.
- (4) The Member State authorities shall provide all relevant information to the authorities of the other Member States and to the Commission within one month of a decision being taken on the non-compliance of the model according to point 3.

The Member State authorities shall use the measurement and calculation methods set out in Annex II.

The Member State authorities shall only apply the verification tolerances that are set out in Table 1 and shall only use the procedure described in points 1 to 4. No other tolerances, such as those set out in harmonised standards or in any other measurement method, shall be applied.

<b>Table 1 — Verification tolerances</b>	
<i>Parameters</i>	<i>Verification tolerances</i>
Load losses	The determined value shall not exceed the declared value by more than 5 %.
No-load losses	The determined value shall not exceed the declared value by more than 5 %.
The electrical power required by the cooling system for no-load operation	The determined value shall not exceed the declared value by more than 5 %.

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**ANNEX XX**  
**Amendments to Annex VI to Regulation (EU) No 1253/2014**

Annex VI is replaced by the following:

**‘ANNEX VI**

**Product compliance verification by market surveillance authorities**

The verification tolerances defined in this Annex relate only to the verification of the measured parameters by Member State authorities and shall not be used by the manufacturer as an allowed tolerance to establish the values in the technical documentation or in interpreting these values with a view to achieving compliance or to communicate better performance by any means.

When verifying the compliance of a product model with the requirements laid down in this Regulation pursuant to Article 3(2) of Directive 2009/125/EC, for the requirements referred to in this Annex, the authorities of the Member States shall apply the following procedure:

- (1) The Member State authorities shall verify one single unit of the model.
- (2) The model shall be considered to comply with the applicable requirements if:
  - (a) the values given in the technical documentation pursuant to point 2 of Annex IV to Directive 2009/125/EC, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the results of the corresponding measurements carried out pursuant to paragraph (g) thereof; and
  - (b) the values used to determine the compliance of the model and those provided in the product information as required by this Regulation, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the values given in the technical documentation file, including in the test reports; and
  - (c) when the Member State authorities test the unit of the model, the measurements obtained for all the parameters and the values calculated from these measurement(s) are within the respective verification tolerances as given in Table 1.
- (3) If the results referred to in points 2(a) and (b) are not achieved, the model and all equivalent ventilation unit models that have been listed as equivalent models in the manufacturer's or importer's technical documentation shall be considered not to comply with this Regulation.
- (4) If the result referred to in point 2(c) is not achieved:
  - for models that are produced in quantities of less than five per year, the model shall be considered not to comply with this Regulation;
  - for models that are produced in quantities of five or more per year, the Member State authorities shall select three additional units of the same model for testing. The model shall be considered to comply with the applicable requirements if, for these three units, the arithmetical mean of the values of the relevant parameters as measured in testing and the values calculated from these measurements are within the respective verification tolerances given in Table 1.

- (5) If the result referred to in point 4 is not achieved, the model and all equivalent ventilation unit models that have been listed as equivalent models in the manufacturer's or importer's technical documentation shall be considered not to comply with this Regulation.
- (6) The Member State authorities shall provide all relevant information to the authorities of the other Member States and to the Commission within one month of a decision being taken on the non-compliance of the model according to points 3 and 5.

The Member State authorities shall use the measurement and calculation methods set out in Annexes VIII and IX.

The Member State authorities shall only apply the verification tolerances that are set out in Table 1 and shall only use the procedure described in points 1 to 6. No other tolerances, such as those set out in harmonised standards or in any other measurement method, shall be applied.

Table 1 — Verification tolerances

<b>Table 1 — Verification tolerances</b>	
<i>Parameters</i>	<i>Verification tolerances</i>
SPI	The determined value shall be no more than 1.07 times the maximum declared value.
Thermal efficiency RVU and NRVU	The determined value shall be no less than 0.93 times the minimum declared value.
SFP <sub>int</sub>	The determined value shall be no more than 1.07 times the maximum declared value.
Fan efficiency UVU, non-residential	The determined value shall be no less than 0.93 times the minimum declared value.
Sound power level RVU	The determined value shall be no more than the maximum declared value plus 2 dB.
Sound power level NRVU	The determined value shall be no more than the maximum declared value plus 5 dB.

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## **ANNEX XXI**

### **Amendments to Annexes IX, X and XI to Regulation (EU) 2015/1095**

- (1) Annex IX is replaced by the following:

#### **‘ANNEX IX**

#### **Product compliance verification by market surveillance authorities for professional refrigerated storage cabinets**

The verification tolerances defined in this Annex relate only to the verification of the measured parameters by Member State authorities and shall not be used by the manufacturer as an allowed tolerance to establish the values in the technical documentation or in interpreting these values with a view to achieving compliance or to communicate better performance by any means.

When verifying the compliance of a product model with the requirements laid down in this Regulation pursuant to Article 3(2) of Directive 2009/125/EC, for the requirements referred to in this Annex, the authorities of the Member States shall apply the following procedure:

- (1) The Member State authorities shall verify one single unit of the model.
- (2) The model shall be considered to comply with the applicable requirements if:
  - (a) the values given in the technical documentation pursuant to point 2 of Annex IV to Directive 2009/125/EC, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the results of the corresponding measurements carried out pursuant to paragraph (g) thereof; and
  - (b) the values used to determine the compliance of the model and those provided in the product information as required by this Regulation, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the values given in the technical documentation file, including in the test reports; and
  - (c) when the Member State authorities test the unit of the model, the measurements obtained for all the parameters and the values calculated from these measurements are within the respective verification tolerances as given in Table 8.
- (3) If the results referred to in points 2(a) and (b) are not achieved, the model and all equivalent professional refrigerated storage cabinets that have been listed as equivalent products in the manufacturer's or importer's technical documentation shall be considered not to comply with this Regulation.
- (4) If the result referred to in point 2(c) is not achieved, the Member State authorities shall select three additional units of the same model for testing. As an alternative, the three additional units selected may be of one or more different models that have been listed as equivalent products in the technical documentation.
- (5) The model shall be considered to comply with the applicable requirements if, for these three units, the arithmetical mean of the values of the relevant parameters as measured in testing and the values calculated from these measurements are within the respective verification tolerances given in Table 8.

- (6) If the result referred to in point 5 is not achieved, the model and all equivalent professional refrigerated storage cabinets that have been listed as equivalent products in the manufacturer's or importer's technical documentation shall be considered not to comply with this Regulation.
- (7) The Member State authorities shall provide all relevant information to the authorities of the other Member States and to the Commission within one month of a decision being taken on the non-compliance of the model according to points 3 and 6.

The Member State authorities shall use the measurement and calculation methods set out in Annexes III and IV.

The Member State authorities shall only apply the verification tolerances that are set out in Table 8 and shall only use the procedure described in points 1 to 7. No other tolerances, such as those set out in harmonised standards or in any other measurement method, shall be applied.

<b>Table 8 — Verification tolerances</b>	
<i>Parameters</i>	<i>Verification tolerances</i>
Net volume	The determined value shall not be lower than the declared value by more than 3 %.
Energy consumption ( <i>E24h</i> )	The determined value shall not exceed the declared value by more than 10 %.

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- (2) Annex X is replaced by the following:

#### ‘ANNEX X

##### **Product compliance verification by market surveillance authorities for condensing units**

The verification tolerances defined in this Annex relate only to the verification of the measured parameters by Member State authorities and shall not be used by the manufacturer as an allowed tolerance to establish the values in the technical documentation or in interpreting these values with a view to achieving compliance or to communicate better performance by any means.

When verifying the compliance of a product model with the requirements laid down in this Regulation pursuant to Article 3(2) of Directive 2009/125/EC, for the requirements referred to in this Annex, the authorities of the Member States shall apply the following procedure:

- (1) The Member State authorities shall verify one single unit of the model.
- (2) The model shall be considered to comply with the applicable requirements in:
  - (a) the values given in the technical documentation pursuant to point 2 of Annex IV to Directive 2009/125/EC, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the results of the corresponding measurements carried out pursuant to paragraph (g) thereof; and
  - (b) the values used to determine the compliance of the model and those provided in the product information as required by this Regulation, and, where applicable, the values used to calculate these values, are not more favourable for the

manufacturer or importer than the values given in the technical documentation file, including in the test reports; and

- (c) when the Member State authorities test the unit of the model, the measurements obtained for all the parameters and the values calculated from these measurements are within the respective verification tolerances as given in Table 9.
- (3) If the results referred to in points 2(a) and (b) are not achieved, the model shall be considered not to comply with this Regulation.
- (4) If the result referred to in point 2(c) is not achieved, the Member State authorities shall select three additional units of the same model for testing.
- (5) The model shall be considered to comply with the applicable requirements if, for these three units, the arithmetical mean of the values of the relevant parameters as measured in testing and the values calculated from these measurements are within the respective verification tolerances given in Table 9.
- (6) If the result referred to in point 5 is not achieved, the model shall be considered not to comply with this Regulation.
- (7) The Member State authorities shall provide all relevant information to the authorities of the other Member States and to the Commission within one month of a decision being taken on the non-compliance of the model according to points 3 and 6.

The Member State authorities shall use the measurement and calculation methods set out in Annex VI.

The Member State authorities shall only apply the verification tolerances that are set out in Table 9 and shall only use the procedure described in points 1 to 7. No other tolerances, such as those set out in harmonised standards or in any other measurement method, shall be applied.

<b>Table 9 — Verification tolerances</b>	
<i>Parameters</i>	<i>Verification tolerances</i>
The seasonal energy performance ratio (SEPR) of condensing units with a rated cooling capacity higher than 2 kW at low temperature and 5 kW at medium temperature	The determined value shall not be more than 10 % lower than the declared value, with point A measured at the rated cooling capacity.
The rated coefficient of performance (COP <sub>A</sub> ) of condensing units with a rated cooling capacity lower than 2 kW at low temperature and 5 kW at medium temperature	The determined value shall not be more than 10 % lower than the declared value measured at the rated cooling capacity.
The coefficients of performance COP <sub>B</sub> , COP <sub>C</sub> and COP <sub>D</sub> of condensing units with a rated cooling capacity higher than 2 kW at low temperature and 5 kW at medium temperature	The determined values shall not be more than 10 % lower than the declared value measured at the rated cooling capacity.

- (3) Annex XI is replaced by the following:

**‘ANNEX XI**



## **Product compliance verification by market surveillance authorities for process chillers**

The verification tolerances defined in this Annex relate only to the verification of the measured parameters by Member State authorities and shall not be used by the manufacturer as an allowed tolerance to establish the values in the technical documentation or in interpreting these values with a view to achieving compliance or to communicate better performance by any means.

When verifying the compliance of a product model with the requirements laid down in this Regulation pursuant to Article 3(2) of Directive 2009/125/EC, for the requirements referred to in this Annex, the authorities of the Member States shall apply the following procedure:

- (1) The Member State authorities shall verify one single unit of the model.
- (2) The model shall be considered to comply with the applicable requirements if:
  - (a) the values given in the technical documentation pursuant to point 2 of Annex IV to Directive 2009/125/EC, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the results of the corresponding measurements carried out pursuant to paragraph (g) thereof; and
  - (b) the values used to determine the compliance of the model and those provided in the product information as required by this Regulation, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the values given in the technical documentation file, including in the test reports; and
  - (c) when the Member State authorities test the unit of the model, the measurements obtained for all the parameters and the values calculated from these measurements are within the respective verification tolerances as given in Table 10.
- (3) If the results referred to in points 2(a) and (b) are not achieved, the model shall be considered not to comply with this Regulation.
- (4) If the result referred to in point 2(c) is not achieved, the Member State authorities shall select three additional units of the same model for testing.
- (5) The model shall be considered to comply with the applicable requirements if, for these three units, the arithmetical mean of the values of the relevant parameters as measured in testing and the values calculated from these measurements are within the respective verification tolerances given in Table 10.
- (6) If the result referred to in point 5 is not achieved, the model shall be considered not to comply with this Regulation.
- (7) The Member State authorities shall provide all relevant information to the authorities of the other Member States and to the Commission within one month of a decision being taken on the non-compliance of the model according to points 3 and 6.

The Member State authorities shall use the measurement and calculation methods set out in Annex VIII.

The Member State authorities shall only apply the verification tolerances that are set out in Table 10 and shall only use the procedure described in points 1 to 7. No other tolerances, such as those set out in harmonised standards or in any other measurement method, shall be applied.

<b>Table 10 — Verification tolerances</b>	
<i>Parameters</i>	<i>Verification tolerances</i>
Seasonal energy performance ratio (SEPR)	The determined value shall not be more than 10 % lower than the declared value, with point A measured at the rated cooling capacity.
Rated energy efficiency ratio (EER <sub>A</sub> )	The determined value shall not be more than 10 % lower than the declared value, measured at the rated cooling capacity.

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## **ANNEX XXII**

### **Amendments to Annex IV to Regulation (EU) 2015/1185**

Annex IV is replaced by the following:

#### **‘ANNEX IV**

#### **Product compliance verification by market surveillance authorities**

The verification tolerances defined in this Annex relate only to the verification of the measured parameters by Member State authorities and shall not be used by the manufacturer as an allowed tolerance to establish the values in the technical documentation or in interpreting these values with a view to achieving compliance or to communicate better performance by any means.

When verifying the compliance of a product model with the requirements laid down in this Regulation pursuant to Article 3(2) of Directive 2009/125/EC, for the requirements referred to in this Annex, the authorities of the Member States shall apply the following procedure:

- (1) The Member State authorities shall verify one single unit of the model.
- (2) The model shall be considered to comply with the applicable requirements if:
  - (a) the values given in the technical documentation pursuant to point 2 of Annex IV to Directive 2009/125/EC, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the results of the corresponding measurements carried out pursuant to paragraph (g) thereof; and
  - (b) the values used to determine the compliance of the model and those provided in the product information as required by this Regulation, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the values given in the technical documentation file, including in the test reports; and
  - (c) when the Member State authorities test the unit of the model, the measurements obtained for all the parameters and the values calculated from these measurements are within the respective verification tolerances as given in Table 4. The unit shall be tested with one or more fuels with characteristics in the same range as the fuel(s) that were used by the manufacturer to perform the measurements described in Annex III.
- (3) If the results referred to in points 2(a) or (b) are not achieved, the model and all models that have been listed as equivalent models in the manufacturer's or importer's technical documentation shall be considered not to comply with this Regulation.
- (4) If the result referred to in point 2(c) is not achieved, the Member State authorities shall select three additional units of the same model for testing. As an alternative, the three additional units selected may be of one or more different models that have been listed as equivalent models in the manufacturer's or importer's technical documentation.
- (5) The model shall be considered to comply with the applicable requirements if, for these three units, the arithmetical mean of the values of the relevant parameters as measured in testing and the values calculated from these measurements are within the respective verification tolerances given in Table 4.

- (6) If the result referred to in point 5 is not achieved, the model and all models that have been listed as equivalent models in the manufacturer's or importer's technical documentation shall be considered not to comply with this Regulation.
- (7) The Member State authorities shall provide all relevant information to the authorities of the other Member States and to the Commission within one month of a decision being taken on the non-compliance of the model according to points 3 and 6.

The Member State authorities shall use the measurement and calculation methods set out in Annex III.

The Member State authorities shall only apply the verification tolerances that are set out in Table 4 and shall only use the procedure described in points 1 to 7. No other tolerances, such as those set out in harmonised standards or in any other measurement method, shall be applied.

<b>Table 4 — Verification tolerances</b>	
<i>Parameters</i>	<i>Verification tolerances</i>
Seasonal space-heating energy efficiency, $\eta_s$	The determined value shall not be lower than the declared value by more than 5 %.
Emissions of particulate matter	<p>The determined value shall not exceed the declared value by more than 20 mg/m<sup>3</sup> at 13 % O<sub>2</sub> for open fronted solid fuel local space heaters and closed fronted solid fuel local space heaters using solid fuel other than compressed wood in the form of pellets and cookers when measured according to the method described in Annex III, point 4(a)(i)(1).</p> <p>The determined value shall not exceed the declared value by more than 10 mg/m<sup>3</sup> at 13 % O<sub>2</sub> for closed fronted solid fuel local space heaters using compressed wood in the form of pellets when measured according to the method described in Annex III, point (4)(a)(i)(1).</p> <p>The determined value shall not exceed the declared value by more than 1 g/kg when measured according to the method described in Annex III, point (4)(a)(i)(2).</p> <p>The determined value shall not exceed the declared value by more than 0.8 g/kg when measured according to the method described in Annex III, point (4)(a)(i)(3).</p>
Emissions of organic gaseous compounds	The determined value shall not exceed the declared value by more than 25 mgC/m <sup>3</sup> at 13 % O <sub>2</sub> for open fronted solid fuel local space heaters and closed fronted solid fuel local space heaters using solid fuel other than

	<p>compressed wood in the form of pellets and cookers.</p> <p>The determined value shall not exceed the declared value by more than 15 mgC/m<sup>3</sup> at 13 % O<sub>2</sub> for closed fronted solid fuel local space heaters using compressed wood in the form of pellets.</p>
Emissions of carbon monoxide	<p>The determined value shall not exceed the declared value by more than 275 mg/m<sup>3</sup> at 13 % O<sub>2</sub> for open fronted solid fuel local space heaters and closed fronted solid fuel local space heaters using solid fuel other than compressed wood in the form of pellets and cookers.</p> <p>The determined value shall not exceed the declared value by more than 60 mg/m<sup>3</sup> at 13 % O<sub>2</sub> for closed fronted solid fuel local space heaters using compressed wood in the form of pellets.</p>
Emissions of nitrogen oxides	<p>The determined value shall not exceed the declared value by more than 30 mg/m<sup>3</sup> expressed as NO<sub>2</sub> at 13 % O<sub>2</sub>.</p>

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**ANNEX XXIII**  
**Amendments to Annex IV to Regulation (EU) 2015/1188**

Annex IV is replaced by the following:

**‘ANNEX IV**  
**Product compliance verification by market surveillance authorities**

The verification tolerances defined in this Annex relate only to the verification of the measured parameters by Member State authorities and shall not be used by the manufacturer as an allowed tolerance to establish the values in the technical documentation or in interpreting these values with a view to achieving compliance or to communicate better performance by any means.

When verifying the compliance of a product model with the requirements laid down in this Regulation pursuant to Article 3(2) of Directive 2009/125/EC, for the requirements referred to in this Annex, the authorities of the Member States shall apply the following procedure:

- (1) The Member State authorities shall verify one single unit of the model.
- (2) The model shall be considered to comply with the applicable requirements if:
  - (a) the values given in the technical documentation pursuant to point 2 of Annex IV to Directive 2009/125/EC, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the results of the corresponding measurements carried out pursuant to paragraph (g) thereof; and
  - (b) the values used to determine the compliance of the model and those provided in the product information as required by this Regulation, and, where applicable, the values used to calculate those values, are not more favourable for the manufacturer or importer than the values given in the technical documentation file, including in the test reports; and
  - (c) when the Member State authorities test the unit of the model, the measurements obtained for all the parameters and the values calculated from these measurements are within the respective verification tolerances as given in Table 9.
- (3) If the results referred to in points 2(a) and (b) are not achieved, the model and all models that have been listed as equivalent models in the manufacturer's or importer's technical documentation shall be considered not to comply with this Regulation.
- (4) If the result referred to in point 2(c) is not achieved, the Member State authorities shall select three additional units of the same model for testing. As an alternative, the three additional units selected may be of one or more different models that have been listed as equivalent models in the manufacturer's or importer's technical documentation.
- (5) The model shall be considered to comply with the applicable requirements if, for these three units, the arithmetical mean of the values of the relevant parameters as measured in testing and the values calculated from these measurements are within the respective verification tolerances given in Table 9.

- (6) If the result referred to in point 5 is not achieved, the model and all models that have been listed as equivalent models in the manufacturer's or importer's technical documentation shall be considered not to comply with this Regulation.
- (7) The Member State authorities shall provide all relevant information to the authorities of the other Member States and to the Commission within one month of a decision being taken on the non-compliance of the model according to points 3 and 6.

The Member State authorities shall use the measurement and calculation methods set out in Annex III.

The Member State authorities shall only apply the verification tolerances that are set out in Table 8 and shall only use the procedure described in points 1 to 7. No other tolerances, such as those set out in harmonised standards or in any other measurement method, shall be applied.

<b>Table 8 — Verification tolerances</b>	
<i>Parameters</i>	<i>Verification tolerances</i>
Seasonal space-heating energy efficiency, $\eta_s$ , for electric local space heaters	The determined value shall not be lower than the declared value.
Seasonal space-heating energy efficiency, $\eta_s$ , for liquid fuel and gaseous fuel local space heaters	The determined value shall not be lower than the declared value by more than 8 %.
Emissions of nitrogen oxides for gaseous and liquid fuel local space heaters and luminous and tube local space heaters	The determined value shall not exceed the declared value by more than 10 %.

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**ANNEX XXIV**  
**Amendments to Annex IV to Regulation (EU) 2015/1189**

Annex IV is replaced by the following:

**‘ANNEX IV**  
**Product compliance verification by market surveillance authorities**

The verification tolerances defined in this Annex relate only to the verification of the measured parameters by Member State authorities and shall not be used by the manufacturer as an allowed tolerance to establish the values in the technical documentation or in interpreting these values with a view to achieving compliance or to communicate better performance by any means.

When verifying the compliance of a product model with the requirements laid down in this Regulation pursuant to Article 3(2) of Directive 2009/125/EC, for the requirements referred to in this Annex, the authorities of the Member States shall apply the following procedure:

- (1) The Member State authorities shall verify one single unit of the model.
- (2) The model shall be considered to comply with the applicable requirements if:
  - (a) the values given in the technical documentation pursuant to point 2 of Annex IV to Directive 2009/125/EC, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the results of the corresponding measurements carried out pursuant to paragraph (g) thereof; and
  - (b) the values used to determine the compliance of the model and those provided in the product information as required by this Regulation, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the values given in the technical documentation file, including in the test reports; and
  - (c) when the Member State authorities test the unit of the model, the measurements obtained for all the parameters and the values calculated from these measurements are within the respective verification tolerances as given in Table 2. The unit shall be tested with one or more fuels with characteristics in the same range as the fuel(s) that were used by the manufacturer to perform the measurements described in Annex III.
- (3) If the results referred to in points 2(a) or (b) are not achieved, the model and all models that have been listed as equivalent models in the manufacturer's or importer's technical documentation shall be considered not to comply with this Regulation.
- (4) If the result referred to in point 2(c) is not achieved, the Member State authorities shall select three additional units of the same model for testing. As an alternative, the three additional units selected may be of one or more different models that have been listed as equivalent models in the manufacturer's or importer's technical documentation.
- (5) The model shall be considered to comply with the applicable requirements if, for these three units, the arithmetical mean of the values of the relevant parameters as measured in testing and the values calculated from these measurements are within the respective verification tolerances given in Table 2.



- (6) If the result referred to in point 5 is not achieved, the model and all models that have been listed as equivalent models in the manufacturer's or importer's technical documentation shall be considered not to comply with this Regulation.
- (7) The Member State authorities shall provide all relevant information to the authorities of the other Member States and to the Commission within one month of a decision being taken on the non-compliance of the model according to points 3 and 6.

The Member State authorities shall use the measurement and calculation methods set out in Annex III.

The Member State authorities shall only apply the verification tolerances that are set out in Table 2 and shall only use the procedure described in points 1 to 7. No other tolerances, such as those set out in harmonised standards or in any other measurement method, shall be applied.

<b>Table 2 — Verification tolerances</b>	
<i>Parameters</i>	<i>Verification tolerance</i>
Seasonal space-heating energy efficiency, $\eta_s$	The determined value shall not be lower than the declared value by more than 4 %.
Emissions of particulate matter	The determined value shall not exceed the declared value by more than 9 mg/m <sup>3</sup> .
Emissions of organic gaseous compounds	The determined value shall not exceed the declared value by more than 7 mg/m <sup>3</sup> .
Emissions of carbon monoxide	The determined value shall not exceed the declared value by more than 30 mg/m <sup>3</sup> .
Emissions of nitrogen oxides	The determined value shall not exceed the declared value by more than 30 mg/m <sup>3</sup> .

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## ANNEX XXV

### **Amendments to Annex IV to Regulation (EU) 2016/XXX [Air heating/cooling and chillers number of the Regulation to be inserted before publication in the OJ]**

Annex IV is replaced by the following:

#### **‘ANNEX IV**

#### **Product compliance verification by market surveillance authorities**

The verification tolerances defined in this Annex relate only to the verification of the measured parameters by Member State authorities and shall not be used by the manufacturer as an allowed tolerance to establish the values in the technical documentation or in interpreting these values with a view to achieving compliance or to communicate better performance by any means.

When verifying the compliance of a product model with the requirements laid down in this Regulation pursuant to Article 3(2) of Directive 2009/125/EC, for the requirements referred to in this Annex, the authorities of the Member States shall apply the following procedure:

- (1) The Member State authorities shall verify one single unit of the model.
- (2) The model shall be considered to comply with the applicable requirements if:
  - (a) the values given in the technical documentation pursuant to point 2 of Annex IV to Directive 2009/125/EC, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the results of the corresponding measurements carried out pursuant to paragraph (g) thereof; and
  - (b) the values used to determine the compliance of the model and those provided in the product information as required by this Regulation, and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the values given in the technical documentation file, including in the test reports; and
  - (c) when the Member State authorities test the unit of the model, the measurements obtained for all the parameters and the values calculated from these measurements are within the respective verification tolerances as given in Table 30.
- (3) If the results referred to in points 2(a) or (b) are not achieved, the model and any other model where the information included in the technical documentation was obtained on the same basis shall be considered not to comply with this Regulation.
- (4) For air heating product, cooling product, high temperature process chiller or fan coil unit models with a rated heating, cooling or refrigeration capacity  $\geq 70$  kW or that are produced in lower quantities than 5 per year, if the result referred to in point 2(c) is not achieved, the model and any other model where the information included in the technical documentation was obtained on the same basis shall be considered not to comply with this Regulation.
- (5) For air heating product, cooling product, high temperature process chiller or fan coil unit models with a rated heating, cooling or refrigeration capacity  $< 70$  kW or that are produced in quantities of 5 or more per year, if the result referred to in point 2(c) is not achieved, the Member State authorities shall select three additional units of the same model for testing.

- (6) The model shall be considered to comply with the applicable requirements if, for these three units, the arithmetical mean of the values of the relevant parameters as measured in testing and the values calculated from these measurements are within the respective verification tolerances given in Table 30.
- (7) If the result referred to in point 6 is not achieved, the model and any other model where the information included in the technical documentation was obtained on the same basis shall be considered not to comply with this Regulation.
- (8) The Member State authorities shall provide all relevant information to the authorities of the other Member States and to the Commission within one month of a decision being taken on the non-compliance of the model according to points 3, 4 and 7.

The Member State authorities shall use the measurement and calculation methods set out in Annex IV.

The Member State authorities shall only apply the verification tolerances that are set out in Table 30 and shall only use the procedure described in points 1 to 8. No other tolerances, such as those set out in harmonised standards or in any other measurement method, shall be applied.

<b>Table 30 — Verification tolerances</b>	
<i>Parameters</i>	<i>Verification tolerance</i>
Seasonal space heating energy efficiency ( $\eta_{s,h}$ ) for air heating products at the rated heating capacity of the unit	The determined value shall not be lower than the declared value by more than 8 %.
Seasonal space cooling energy efficiency ( $\eta_{s,c}$ ) for cooling products at the rated cooling capacity of the unit	The determined value shall not be lower than the declared value by more than 8 %.
Sound power level LWA for air heating products and cooling products	The determined value shall not exceed the declared value by more than 2.0 dB.
Emissions of nitrogen oxides for fuel fired air heating products and cooling products expressed in nitrogen dioxide	The determined value shall not exceed the declared value by more than 20 %.
Seasonal energy performance ratio (SEPR) of high temperature process chillers at the rated refrigeration capacity of the unit	The determined value shall not be lower than the declared value by more than 10 %.
Rated energy efficiency ratio ( $EER_A$ ) of high temperature process chillers at the rated refrigeration capacity	The determined value shall not be lower than the declared value by more than 5 %.