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ANNEXES 1 to 5

ANNEXES

to the

COMMISSION REGULATION (EU) .../...
of XXX

**implementing Directive 2009/125/EC of the European Parliament and of the Council
with regard to ecodesign requirements for household tumble dryers, amending
Commission Regulation (EC) No 1275/2008, and repealing Commission Regulation (EU)
No 932/2012**

ANNEX I

Definitions

For the purpose of the Annexes II to V, the following definitions apply:

- (1) ‘air-vented tumble dryer’ means a household tumble dryer that draws in fresh air, passes it over the textiles and vents the resulting moist air into the room or outside;
- (2) ‘condenser tumble dryer’ means a household tumble dryer that includes a system, using condensation or any other means, for removing moisture from the air used for the drying process;
- (3) ‘heating element tumble dryer’ means a household tumble dryer where the only or main means to heat the air inside is an electric resistance;
- (4) ‘heat pump tumble dryer’ means a household tumble dryer where the only or main means to heat the air inside is a heat pump system;
- (5) ‘gas-fired tumble dryer’ means a household tumble dryer which uses gas to heat the inside air;
- (6) ‘Energy Efficiency Index’ or ‘EEI’ means the ratio of the weighted energy consumption to the standard drying cycle energy consumption of a specific household tumble dryer model;
- (7) ‘programme duration’ means the length of time beginning with the initiation of the programme selected, excluding any user programmed delay, until an end of programme indicator is activated and the user has access to the load;
- (8) ‘full load’ means the rated capacity of a household tumble dryer for a given programme;
- (9) ‘partial load’ means half of the rated capacity of a household tumble dryer for a given programme;
- (10) ‘condensation efficiency’ means the ratio between the mass of moisture condensed by a condenser tumble dryer and the mass of moisture removed from the load at the end of a drying cycle;
- (11) ‘off mode’ means a condition in which the household tumble dryer is connected to the mains and is not providing any function, including the following conditions:
 - (a) conditions providing only an indication of off mode;
 - (b) conditions providing only functionalities intended to ensure electromagnetic compatibility pursuant to Directive 2014/30/EU of the European Parliament and of the Council¹;
- (12) ‘standby mode’ means a condition where the household tumble dryer is connected to the mains, and provides only the following functions or some of those functions, which may persist for an indefinite time:
 - (a) reactivation function, or reactivation function and indication of enabled reactivation function;

¹ Directive 2014/30/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility (OJ L 96, 29.3.2014, p. 79).

- (b) reactivation function through a connection to a network ('networked standby mode');
 - (c) information or status display;
 - (d) detection function for emergency measures;
- (13) 'network' means a communication infrastructure with a topology of links, an architecture, including the physical components, organisational principles, communication procedures and formats (protocols);
- (14) 'wrinkle guard function' means an operation of the household tumble dryer after completion of a programme to prevent excessive wrinkle building in the laundry;
- (15) 'delay start' means a condition where the user has selected a specified delay to the beginning or end of the drying cycle of the selected programme;
- (16) 'spare part' means a separate part that can replace a part with the same or similar function in a product;
- (17) 'professional repairer' means an operator or undertaking which provides services of repair and professional maintenance of household tumble dryers;
- (18) 'guarantee' means any undertaking by the retailer or a manufacturer to the consumer to either reimburse the price paid or replace, repair or handle the household tumble dryer in any way if they do not meet the specifications set out in the guarantee statement or in the relevant advertising;

ANNEX II

Ecodesign requirements

1. PROGRAMME REQUIREMENTS

Household tumble dryers shall meet the following requirements:

- (a) household tumble dryers shall provide an eco programme. The stated rated capacity for the eco programme shall not be lower than the highest stated rated capacity among all the cotton programmes of the household tumble dryer;
- (b) the eco programme shall be clearly identifiable on the programme selection, on the display and through the network connection, depending on the functionalities provided by the tumble dryer;
- (c) the eco programme shall be indicated as 'eco' on the programme selection, on the display and through the network connection, depending on the functionalities provided by the tumble dryer;
- (d) the name 'eco' shall be used exclusively for the eco programme. The formatting of the name is not restricted in terms of font type, font size, case sensitivity or colour. No other programme may have in its name the term 'eco';
- (e) the name 'eco' may be complemented with additional indications about the characteristics of the programme such as the suitable type of textile;
- (f) the eco programme shall be set as the default programme for automatic programme selection or any function maintaining the selection of a programme; or, where there is no automatic programme selection, it shall be available for direct selection without the need for any other selection such as a specific time or load;
- (g) the indications 'normal', 'daily', 'regular' and 'standard', and their translations in all official languages of the Union, shall not be used in programme names for household tumble dryers, neither alone nor in combination with other information;
- (h) for the requirements set out in Sections 2, 3 and 4 of this Annex, the eco programme shall be used.

2. ENERGY EFFICIENCY REQUIREMENTS

The EEI of household tumble dryers shall not be higher than 85.

The EEI shall be calculated in accordance with Annex III.

3. CONDENSATION EFFICIENCY REQUIREMENTS

The condensation efficiency of condenser tumble dryers shall not be lower than 80 %.The condensation efficiency shall be calculated in accordance with Annex III.

4. LOW POWER MODES

Household tumble dryers shall meet the following requirements:

- (a) they shall have an off-mode or a standby mode or both. The power consumption in off-mode shall not exceed 0,30 W and the power consumption in standby mode shall not exceed 0,50 W;

- (b) if the standby mode includes the display of information or status, the power consumption of that mode shall not exceed 1,00 W;
- (c) if the standby mode provides for a connection to a network and provides networked standby as defined in Article 2, point (11), of Regulation (EC) No 1275/2008, the power consumption of this mode shall not exceed 2,00 W;
- (d) at the latest 15 minutes after the household tumble dryer has been switched on or after the end of any programme and associated activities, or after interruption of the wrinkle guard function, or after any other interaction with the tumble dryer, and if no other mode including emergency measures is triggered, the tumble dryer shall switch automatically to off-mode or to standby mode;
- (e) if the household tumble dryer provides for a delay start, the power consumption of this condition, including any standby mode, shall not exceed 4,00 W. The delay start shall not be programmable by the user for more than 24h;
- (f) any household tumble dryer that can be connected to a network shall provide the possibility to activate and deactivate the network connection(s). The network connection(s) shall be deactivated by default.

5. RESOURCE EFFICIENCY REQUIREMENTS

(1) Availability of spare parts or compatible parts:

- (a) for all models, units of which are placed on the market as from 1 July 2025, manufacturers, importers or authorised representatives of household tumble dryers shall make available to professional repairers at least the following spare parts or compatible parts:
 - (i) gaskets and seals;
 - (ii) switches and knobs;
 - (iii) condensate pump;
 - (iv) door locks;
 - (v) motors and motor brushes;
 - (vi) transmissions between motor and drum;
 - (vii) fan and fan wheels;
 - (viii) drums and bearings;
 - (ix) water piping and related equipment including hoses, valves and filters;
 - (x) cables and plugs;
 - (xi) printed circuit boards;
 - (xii) electronic displays;
 - (xiii) thermostats and temperature sensors;
 - (xiv) software and firmware updates, including reset software;
 - (xv) springs;
 - (xvi) heaters and heating elements;
 - (xvii) electric fuses (separately or bundled together).

- (xviii) tension pulley;
 - (xix) support roller;
 - (b) availability of spare parts or compatible parts referred to in point (a), shall be ensured for a minimum period starting at the latest on 1 July 2025 or two years after the placing on the market of the first unit of the model, whichever is the later date, and ending at least, 10 years after placing on the market the last unit of the model concerned. For that purpose, the list of spare parts, the procedure for ordering them and the repair instructions shall be publicly available on the free access website of the manufacturer, importer or authorised representative, at least during the same period and starting at the date referred to in this point;
 - (c) for all models, units of which are placed on the market as from 1 July 2025, manufacturers, importers or authorised representatives of household tumble dryers shall make available to professional repairers and users at least the following spare parts or compatible parts:
 - (i) doors, door handles and hinges;
 - (ii) lint filters;
 - (iii) air filters;
 - (iv) plastic peripherals;
 - (v) condensate tank;
 - (d) availability of spare parts or compatible parts referred to in point (c), shall be ensured for a minimum period starting on the date of placing that unit on the market and ending at least 10 years after placing the last unit of the concerned model on the market. For that purpose, the list of spare parts and the procedure for ordering them and the repair and maintenance information shall be publicly available on the free access website of the manufacturer, importer or authorised representative, at least during the same period and starting at the date referred to in this point;
 - (e) manufacturers, importers or authorised representatives of household tumble dryers shall ensure that the spare parts referred to in points (a) and (c) can be replaced with the use of commonly available tools and without permanent damage to the household tumble dryer.
- (2) Maximum delivery time of spare parts:
- During the period of availability of spare parts, the manufacturer, importer or authorised representative shall ensure the delivery of the spare parts within 15 working days after having received the order.
- (3) Access to repair and maintenance information:
- (a) During the period referred to in point 1(b) the manufacturer, importer or authorised representative shall provide access to the appliance repair and maintenance information to professional repairers.

The information referred to in the first subparagraph of this point shall be provided on the manufacturer's, importer's or authorised representative's website which shall indicate the process for professional repairers to request access to information. In order to accept such a request, the manufacturers,

importers or authorised representatives may require the professional repairer to demonstrate that:

- (i) the professional repairer has the technical competence to repair household tumble dryers and complies with the applicable regulations for repairers of electrical equipment in the Member States where it operates. Reference to an official registration system as professional repairer, where such system is in place in the Member States concerned, shall be accepted as proof of compliance with this point;
 - (ii) the professional repairer is covered by insurance covering liabilities resulting from its activity regardless of whether this is required by the Member State;
 - (b) manufacturers, importers or authorised representatives shall accept or refuse the request referred to in point (a) within 5 working days;
 - (c) manufacturers, importers or authorised representatives may charge reasonable and proportionate fees for access to the repair and maintenance information or for receiving regular updates. A fee is reasonable if it does not discourage access by failing to take into account the extent to which the professional repairer uses the information;
 - (d) once the request is accepted, a professional repairer shall have access to the requested repair and maintenance information within one working day. The information may be provided for an equivalent model or model of the same family, where relevant;
 - (e) the repair and maintenance information shall include:
 - (i) the unequivocal household tumble dryer identification;
 - (ii) a disassembly map or exploded view;
 - (iii) technical manual of instructions for repair;
 - (iv) list of necessary repair and test equipment;
 - (v) component and diagnosis information (such as minimum and maximum theoretical values for measurements);
 - (vi) wiring and connection diagrams;
 - (vii) diagnostic fault and error codes (including manufacturer-specific codes, where applicable);
 - (viii) instructions for installation of relevant software and firmware including reset software;
 - (ix) information on how to access data records of reported failure incidents stored on the tumble dryer (where applicable).
- (4) Information requirements for refrigerant gases:

Without prejudice to Regulation (EU) No 517/2014 of the European Parliament and of the Council², and in particular Article 12 on labelling and product and equipment information, the chemical name or the accepted industry designation of the

² Regulation (EU) No 517/2014 of the European Parliament and of the Council of 16 April 2014 on fluorinated greenhouse gases and repealing Regulation (EC) No 842/2006 (OJ L 150, 20.5.2014, p. 195).

refrigerant gas used in heat pump tumble dryers, shall be displayed permanently in a place on the external parts of the appliance that are visible and can be easily identified by the user, for example on the back panel.

- (5) Requirements for dismantling for material recovery and recycling while avoiding pollution:
- (a) manufacturers, importers or authorised representatives shall ensure that household tumble dryers are designed in such a way that the materials and components referred to in Annex VII to Directive 2012/19/EU of the European Parliament and of the Council³ can be removed from the appliance with the use of commonly available tools;
 - (b) manufacturers, importers or authorised representatives shall fulfil the obligations laid down in Article 15(1) of Directive 2012/19/EU.

6. USER INFORMATION REQUIREMENTS

User and installer instructions shall be provided in the form of a user manual on a free access website of the manufacturer, importer or authorised representative, and shall include:

- (1) the following general information:
- (a) information that the eco programme is suitable to dry normal wet cotton laundry, and that this programme is used to assess the compliance with the EU Ecodesign legislation;
 - (b) information that the eco programme is the most efficient programme in terms of energy consumption for drying wet cotton laundry;
 - (c) information that loading the household tumble dryer up to the maximum capacity indicated by the manufacturer for the respective programmes will contribute to energy savings;
 - (d) if applicable, information on how to activate and deactivate the network connection and impact on energy consumption;
 - (e) instructions on how to find the model information stored in the product database, as specified in Delegated Regulation (EU) [OP -Please insert regulation number energy labelling regulation for household tumble dryers] by means of a weblink that links to the model information as stored in the product database or a link to the product database and information on how to find the model identifier on the product;
- (2) values for the following parameters:
- (a) rated capacity in kg;
 - (b) programme duration, expressed in hours and minutes;
 - (c) energy consumption in kWh/drying cycle;
 - (d) final moisture content after the drying cycle;

³ Directive 2012/19/EU of the European Parliament and of the Council of 4 July 2012 on waste electrical and electronic equipment (WEEE) (OJ L 197, 24.7.2012, p. 38).

The values for the parameters set out in points (a) to (d) shall be provided for the eco programme at full load and partial load, and for the following programmes where they are available:

- (a) synthetics normal dry at full load for this programme;
- (b) delicates/wool drying at full load for this programme;
- (c) cotton extra/very dry at full load and partial load;
- (d) cotton iron dry at full load and partial load;
- (e) synthetics extra/very dry at full load for this programme;
- (f) synthetics iron dry at full load for this programme;

The values given for programmes other than the eco programme are indicative only;

(3) instructions to perform maintenance operations, including at least the following operations:

- (a) correct installation including level positioning, connection to mains, connection to water outlet (if relevant), connection to gas (if relevant), installation of ventilation hose (if relevant);
- (b) cleaning of filters, including optimal frequency, and procedure, and main consequences of insufficient cleaning of filters;
- (c) emptying of water tank for condenser dryers in case the tumble dryer is not connected to water outlet;
- (d) periodic cleaning, including optimal frequency;
- (e) door opening between drying cycles, if appropriate;
- (f) foreign object removal;
- (g) identification of errors, the meaning of the errors, and the action required, including identification of errors requiring professional assistance;
- (h) how to access professional repair services (internet webpages, addresses, contact details).

The instructions shall also include information on any implications of self-repair or non-professional repair for the safety of the user and for the guarantee and on the minimum period during which the spare parts are available.

ANNEX III

Measurement and calculation methods

For the purposes of compliance and verification of compliance with the requirements of this Regulation, measurements and calculations shall be made using harmonised standards whose reference numbers are published for that purpose in the Official Journal of the European Union, or other reliable, accurate and reproducible methods, which take into account the generally recognised state-of-the-art and are in line with the provisions in this Annex.

Where a parameter is declared pursuant to Article 4, its declared value shall be used by the manufacturer, importer or authorised representative for the calculations in this Annex.

The eco programme shall be used for the measurement and calculation of the EEI, the condensation efficiency, the programme duration and the final moisture content. Concurrently, the energy consumption, condensation efficiency, programme duration and final moisture content shall also be measured.

1. ENERGY EFFICIENCY INDEX

For the calculation of the EEI of a household tumble dryer model, the weighted energy consumption per drying cycle for the eco programme at full and partial load is compared to the standard energy consumption per drying cycle.

- (a) The EEI is calculated as follows and rounded to one decimal place:

$$EEI = \frac{E_{tC}}{SE_C} \times 100$$

where

E_{tC} = weighted energy consumption per drying cycle,

SE_C = standard energy consumption per drying cycle.

- (b) SE_C is calculated in kWh as follows and rounded to two decimal places:

- (i) for household tumble dryers other than air-vented tumble dryers:

$$SE_C = 0,46 \times c^{0,63}$$

- (ii) for air-vented tumble dryers:

$$SE_C = 0,46 \times c^{0,63} \times \left(1 - \frac{T_t}{60} \times 0,083\right)$$

where

c is the rated capacity of the household tumble dryer for the eco programme,

T_t is the weighted programme duration for the eco programme.

- (c) E_{tC} is calculated in kWh as follows and rounded to two decimal places:

$$E_{tC} = 0,24 \times E_{dry} + 0,76 \times E_{dry^{1/2}}$$

where

E_{dry} = energy consumption of the eco programme at full load, in kWh and rounded to two decimal places,

$E_{dry^{1/2}}$ = energy consumption of the eco programme at partial load, in kWh and rounded to two decimal places.

- (d) for gas-fired household tumble dryers, E_{dry} and $E_{dry1/2}$ are calculated as follows

$$E_{dry} = \frac{Eg_{dry}}{f_g} + Eg_{dry,a}$$

$$E_{dry1/2} = \frac{Eg_{dry1/2}}{f_g} + Eg_{dry1/2,a}$$

where

Eg_{dry} = gas consumption of the eco programme at full load, in kWh and rounded to two decimal places,

$Eg_{dry1/2}$ = gas consumption of the eco programme at partial load, in kWh and rounded to two decimal places,

$Eg_{dry,a}$ = auxiliary electricity consumption of the eco programme at full load, in kWh and rounded to two decimal places,

$Eg_{dry1/2,a}$ = auxiliary electricity consumption of the eco programme at partial load, in kWh and rounded to two decimal places,

$$f_g = 1,9.$$

- (e) T_t for the eco programme is calculated in minutes, rounded to the nearest minute, as follows:

$$T_t = 0,24 \times T_{dry} + 0,76 \times T_{dry1/2}$$

where

T_{dry} = programme time for the eco programme at full load, in minutes and rounded to the nearest minute;

$T_{dry1/2}$ = programme time for the eco programme at partial load, in minutes and rounded to the nearest minute.

- (f) The final moisture content μ_t for the eco programme is calculated in percent, rounded to one decimal places, as follows:

$$\mu_t = \frac{(3 \times \mu_{dry} + 4 \times \mu_{dry1/2})}{7}$$

where

μ_{dry} = final moisture content for the eco programme at full load, in percent and rounded to one decimal place.

$\mu_{dry1/2}$ = final moisture content for the eco programme at partial load, in percent and rounded to one decimal place.

2. CONDENSATION EFFICIENCY

The condensation efficiency of a programme (C_t) is the ratio between the mass of moisture condensed and collected in the container of a condenser tumble dryer and the mass of moisture removed from the load by the programme, the latter being the difference between the mass of the wet test load before drying and the mass of the test load after drying.

C_t is calculated as a percentage and rounded to the nearest whole percent as follows:

$$C_t = 0,24 \times C_{dry} + 0,76 \times C_{dry1/2}$$

where

C_{dry} = average condensation efficiency of the eco programme at full load,

$C_{dry/2}$ = average condensation efficiency of the eco programme at partial load.

3. LOW POWER MODES

The power consumption of the off mode (P_o), standby mode (P_{sm}), and where applicable delay start (P_{ds}) are measured. The measured values are expressed in W and rounded to two decimal places.

During measurements of the power consumption in low power modes, the following functions shall be checked and recorded:

- (a) the display or not of information;
- (b) the activation or not of a network connection.

If the household tumble dryer provides for a wrinkle guard function, such function shall be interrupted by opening the door of the household tumble dryer, or any other appropriate intervention 15 minutes before the measurement of energy consumption.

4. ACOUSTIC AIRBORNE NOISE EMISSION

The acoustic airborne noise emission of the drying phase of a household tumble dryer shall be calculated for the eco programme at full load, using harmonised standards whose reference numbers have been published for this purpose 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.

Acoustic airborne noise emissions shall be measured in dB(A) with respect to 1 pW and shall be rounded to the nearest integer.

ANNEX IV

Verification procedure for the purpose of market surveillance

1. The verification tolerances set out in this Annex relate only to the verification of the declared values by Member State authorities and shall not be used by the manufacturer, importer or authorised representatives as an allowed tolerance to establish those values in the technical documentation or in interpreting these values with a view to achieving compliance or to communicate better performance by any means.
2. Where a model is not in conformity with the requirements laid down in Article 6, the model and all equivalent models shall be considered not compliant.
3. In 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, the authorities of the Member States shall apply the following procedure:
 - (a) the Member State authorities shall verify one single unit of the model;
 - (b) the model shall be considered to comply with the applicable requirements where it meets all the following conditions:
 - (i) the declared 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 such declared values, are not more favourable for the manufacturer, importer or authorised representative than the results of the corresponding measurements carried out pursuant to point 2(g) of that Annex;
 - (ii) the declared values meet any requirements laid down in this Regulation, and any required product information published by the manufacturer, importer or authorised representative does not contain values that are more favourable for the manufacturer or importer than the declared values;
 - (iii) when the Member State authorities check the unit of the model, they find that the manufacturer, importer or authorised representative has set up a system that complies with the requirements set out in Article 7;
 - (iv) when the Member State authorities check the unit of the model, it complies with the programme requirements in point 1, resource efficiency requirements in point 5 and information requirements in point 6 of Annex II; and
 - (v) when the Member State authorities test the unit of the model, the determined values, that is to say the values of the relevant parameters as measured in testing and the values calculated from these measurements, achieved through a valid test, comply with the respective verification tolerances set out in Table 1.
4. Where the results referred to in points (3)(b), (i), (ii) (iii) or (iv) are not achieved, the model and all equivalent models shall be considered not to comply with this Regulation;
5. if the result referred to in point (3)(b)(v) is not achieved, or where the test is not valid because the unit tested in compliance with the test conditions according to the relevant harmonised standards does not meet the requirements for a test to be valid as required by the relevant harmonised standards, 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 equivalent models;

6. The model shall be considered to comply with the applicable requirements where, for the three units referred to in point (5), the arithmetical mean of the determined values complies with the respective verification tolerances set out in Table 1;
7. Where the result referred to in point (6) is not achieved, the model and all equivalent models shall be considered not in compliance with this Regulation. That includes situations for which one of the three units referred to in point (5), tested in compliance with the test conditions according to the relevant harmonised standards, does not meet the requirements for a test to be valid as required by the relevant harmonised standards.
8. The Member State authorities shall provide all relevant information to the authorities of the other Member States and to the Commission without delay after a decision is taken on the non-compliance of the model pursuant to points (2), (4) or (7).
9. The Member State authorities shall use the measurement and calculation methods set out in Annex III.
10. 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 (3) to (7) for the requirements referred to in this Annex. For the parameters in Table 1 no other tolerances, such as those set out in harmonised standards or in any other measurement method, shall be applied.

Table 1 - Verification tolerances

Parameter	Verification tolerances
E_{dry} and $E_{dry\frac{1}{2}}$	The determined value* shall not exceed the declared value of E_{dry} and $E_{dry\frac{1}{2}}$ by more than 6 %.
$E_{g_{dry}}$ and $E_{g_{dry\frac{1}{2}}}$	The determined value* shall not exceed the declared value of $E_{g_{dry}}$ and $E_{g_{dry\frac{1}{2}}}$ by more than 6 %.
$E_{g_{dry,a}}$ and $E_{g_{dry\frac{1}{2},a}}$	The determined value* shall not exceed the declared value of $E_{g_{dry,a}}$ and $E_{g_{dry\frac{1}{2},a}}$ by more than 6 %.
E_{tC}	The determined value* shall not exceed the declared value of E_{tC} by more than 6 %.
C_t	The determined value* shall not be less than the declared value of C_t by more than 6 %.
T_{dry} and $T_{dry\frac{1}{2}}$	The determined value* shall not exceed the declared value of T_{dry} and $T_{dry\frac{1}{2}}$ by more than 6 %.
T_t	The determined value* shall not exceed the declared values of T_t by more than 6 %.
P_o	The determined value* of P_o shall not exceed the declared value by more than 0,10 W.
P_{sm}	The determined value* of P_{sm} shall not exceed the declared value by more than 10 % if the declared value is higher than 1,00 W, or by more than 0,10 W if the declared value is lower than or equal to 1,00 W.
P_{ds}	The determined value* of P_{ds} shall not exceed the declared value by more than 10 % where the declared value is higher than 1,00 W, or by more than 0,10 W if the declared value is lower than or equal to 1,00 W.
Acoustic airborne noise	The determined value* shall not exceed the declared

emissions	value by more than 2 dB with respect to 1 pW.
Final moisture content after drying	The determined value of the final moisture content after drying shall not exceed 3%

* Where three additional units are tested in accordance with point (5), the determined value means the arithmetical mean of the values determined for those three additional units.

ANNEX V

Benchmarks

At the time of entry into force of this Regulation, the best available technology on the market for household tumble dryers is identified as follows:

- (1) condenser heating element tumble dryer with a rated capacity of 7 kg:
 - (a) energy consumption: 3,07 kWh/drying cycle for the eco programme drying cycle (*);
 - (b) drying cycle time: 89 minutes for the eco programme drying cycle (*);
 - (c) acoustic airborne noise emissions: 66 dB(A);
- (2) heat pump tumble dryer with a rated capacity of 7 kg:
 - (a) energy consumption: 0,95 kWh/ drying cycle for the eco programme drying cycle (*);
 - (b) drying cycle time: 124 minutes for the eco programme drying cycle (*);
 - (c) acoustic airborne noise emissions: 66 dB(A);
- (3) air-vented heating element tumble dryer with a rated capacity of 7 kg:
 - (a) energy consumption: 2,91 kWh/ drying cycle for the eco programme drying cycle (*);
 - (b) drying cycle time: 98 minutes for the eco programme drying cycle (*);
 - (c) acoustic airborne noise emissions: 69 dB(A);
- (4) gas-fired tumble dryer with a rated capacity of 7 kg:
 - (a) energy consumption: 1,38 kWh/ drying cycle for the eco programme drying cycle (*);
 - (b) drying cycle time: 94 minutes for the eco programme drying cycle (*);
 - (c) acoustic airborne noise emissions: 62 dB(A);

(*) Calculated on the basis of a weighted average between three drying cycles at full load (at the rated capacity), and four drying cycles at 50% of the rated capacity.