

ANNEX I

**Definitions applicable for the annexes**

The following definitions shall apply:

- (1) 'commercial dishwasher' means a machine which cleans, rinses, and *optionally* dries wash ware, such as dishware, glassware, cutlery, and other utensils connected to the preparation, cooking, arrangement or serving of food (including drinks), using chemical, mechanical, and thermal means; which is connected to electric mains and which is designed to be used principally for commercial (*non-household, non-industrial*) purposes as stated by the manufacturer in the Declaration of Conformity (DoC);
- (2) 'cycle' means a complete cleaning, rinsing and drying process, as defined by the programme selected, consisting of a series of operations until all activity ceases;
- (3) 'component' means a product intended to be incorporated into another product, including chemical substances and mixtures;
- (4) 'hood-type dishwasher' means a manually loaded, programmable, hood-type, pass-through machine with typically one detergent-circulating zone and a fresh-water rinsing process;
- (5) 'guarantee' means any undertaking by the retailer or a manufacturer to the consumer to:
  - (a) reimburse the price paid; or
  - (b) replace, repair or handle commercial dishwashers in any way if they do not meet the specifications set out in the guarantee statement or in the relevant advertising;
- (6) 'mains' or 'electric mains' means the electricity supply from the grid of 230 ( $\pm 10$  %) volts of alternating current at 50 Hz;
- (7) 'professional repairer' means an operator or undertaking which provides services of repair and professional maintenance of commercial dishwashers;
- (8) 'programme' means a series of operations that are pre-defined and are declared by the manufacturer, importer or authorised representative as suitable for specified levels of soil or types of load, or both;
- (9) 'programme duration' ( $T_t$ ) means the length of time beginning with the initiation of the programme selected, excluding any user programmed delay, until the end of the programme is indicated and the user has access to the load;
- (10) 'rated capacity' means the maximum number of plates, which can be cleaned, rinsed and dried in a commercial dishwasher in one cycle when loaded in accordance with the manufacturer's, importer's or authorised representative's instructions;
- (11) 'ready-to-use mode' means a mode after which the dishwasher has been filled with water, the water has been heated (ready for operation) and the machine is ready to start the cycle as indicated in the instructions for use;
- (12) 'resoiling performance' means the performance of the commercial dishwasher regarding the soiling of the washware (e.g. on the rear side of the washware) by the cleaning process, which causes a deterioration of the cleaning result;
- (13) 'spare part' means a separate part that can replace a part with the same or similar function in a product;

- 44 (14) 'standard programme' means the name of the programme of a commercial dishwasher  
45 declared by the manufacturer, importer or authorised representative as suitable to clean  
46 normally soiled [tablewarewashware](#), and to which the ecodesign requirements on  
47 energy and water efficiency, cleaning, resoiling and hygiene performance relate;
- 48 (15) 'standard programme energy consumption' (SPEC) means the energy consumption of  
49 a commercial dishwasher for standard programme, expressed in kilowatt hour per  
50 plate;
- 51 (16) 'standard programme water consumption' (SPWC) means the water consumption of a  
52 commercial dishwasher for the standard programme, expressed in litres per plate;
- 53 (17) 'under-counter one-tank dishwasher' means a manually loaded, programmable,  
54 undercounter front loader with typically one detergent circulating zone and a fresh-  
55 water rinsing process.

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*ANNEX II*  
**Ecodesign requirements**

58 1. PROGRAMME REQUIREMENTS

59 From *XX.XX.XXXX [18 months after adoption of this Regulation]*, commercial dishwashers  
60 shall provide a standard programme set as the default programme for commercial dishwashers  
61 equipped with automatic programme selection or any function maintaining the selection of a  
62 programme, or, if there is no automatic programme selection, available for direct selection  
63 without the need for any other selection such as a specific temperature or load. [The pre-selection](#)  
64 [of the standard programme as default programme can be changed after the first use.](#)

65 2. FUNCTIONAL REQUIREMENTS

66 From *XX.XX.XXXX [18 months after adoption of this Regulation]*, commercial dishwashers  
67 shall meet the following requirements for the standard programme:

- 68 (a) the cleaning performance ( $x_{\text{clean}}$ ) shall be greater than 90 %;
- 69 (b) the minimum hygiene requirements as specified in Annex III.

70  $x_{\text{clean}}$  shall be calculated in accordance with Annex III.

71 3. ENERGY CONSUMPTION REQUIREMENTS

72 From *XX.XX.XXXX [18 months after adoption of this Regulation]*, commercial dishwashers  
73 shall meet the following requirements:

- 74 (a) for under-counter one-tank dishwashers, the energy consumption for the standard  
75 programme cycle (SPEC) shall be less than 0.021 kWh/plate;
- 76 (b) for hood-type dishwashers, the energy consumption for the standard programme cycle  
77 (SPEC) shall be less than 0.023 kWh/plate.

78 The energy consumption shall be calculated in accordance with Annex III.

79 4. WATER CONSUMPTION REQUIREMENTS

80 From *XX.XX.XXXX [18 months after adoption of this Regulation]*, commercial dishwashers  
81 shall meet the following requirements:

- 82 (a) for under-counter one-tank dishwashers, the water consumption for the standard  
83 programme cycle (SPWC) shall be lower than ~~0.186~~[0.179](#) l/plate;
- 84 (b) for hood-type dishwashers, the water consumption for the standard programme cycle  
85 (SPWC) shall be lower than ~~0.173~~[0.169](#) l/plate.

86 The water consumption shall be calculated in accordance with Annex III.

87 5. RESOURCE EFFICIENCY REQUIREMENTS

88 From *XX.XX.XXXX [18 months after adoption of this Regulation]*, commercial dishwashers  
89 shall meet the following requirements:

90 (1) availability of spare parts:

- 91 (a) the manufacturers, importers or authorised representatives of commercial  
92 dishwashers shall make available to professional repairers at least the following  
93 spare parts, for a minimum period of ten years after placing the last unit of the  
94 model on the market:

- 95 • parts of the dosing system;

- 96 • parts related to the water circulation system, e.g. circulation pump, piping,  
97 nozzles;
  - 98 • pumps;
  - 99 • heating elements;
  - 100 • chemical dispensers;
  - 101 • printed circuit boards (PCBs);
  - 102 • relays/contactors;
  - 103 • thermostats and temperature sensors;
  - 104 • pressure sensors or switches.
- 105 (c) the manufacturers, importers or authorised representatives of commercial  
106 dishwashers shall ensure that the spare parts mentioned in points (a) can be  
107 replaced with the use of commonly available tools and without permanent  
108 damage to the appliance;
- 109 (d) the list of spare parts concerned by point (a) and the procedure for ordering them  
110 and the repair instructions shall be publicly available on the free access website  
111 of the manufacturer, importer or authorised representative, when placing the first  
112 unit of a model on the market and until the end of the period of availability of  
113 these spare parts;
- 114 (2) maximum delivery time of spare parts:
- 115 (a) during the period mentioned under point (1)(a), the manufacturer, importer or  
116 authorised representative shall ensure the delivery of the spare parts within five  
117 working days after having received the order until the handover of spare parts to  
118 an express logistics provider;
- 119 (b) in the case of spare parts concerned by point (1)(a), the availability of spare parts  
120 may be limited to professional repairers registered in accordance with  
121 point (3)(a) and (b);
- 122 (3) access to repair and maintenance information:
- 123 when placing the first unit of a model on the market, and until the end of the period  
124 mentioned under (1), the manufacturer, importer or authorised representative shall  
125 provide access to the appliance repair and maintenance information to professional  
126 repairers in the following conditions:
- 127 (a) the manufacturer's, importer's or authorised representative's website shall  
128 indicate the process for professional repairers to register for access to  
129 information; to accept such a request, the manufacturers, importers or authorised  
130 representatives may require the professional repairer to demonstrate that:
- 131 (i) the professional repairer has the technical competence to repair  
132 commercial dishwashers and complies with the applicable regulations for  
133 repairers of electrical equipment in the Member States where it operates.  
134 Reference to an official registration system as professional repairer, where  
135 such system exists in the Member States concerned, shall be accepted as  
136 proof of compliance with this point;

- 137 (ii) the professional repairer is covered by insurance covering liabilities  
138 resulting from its activity regardless of whether this is required by the  
139 Member State;
- 140 (b) the manufacturers, importers or authorised representatives shall accept or refuse  
141 the registration within 5 working days from the date of the request;
- 142 (c) the manufacturers, importers or authorised representatives may charge  
143 reasonable and proportionate fees for access to the repair and maintenance  
144 information or for receiving regular updates. A fee is reasonable if it does not  
145 discourage access by failing to take into account the extent to which the  
146 professional repairer uses the information;
- 147 (d) once registered, a professional repairer shall have access, within one working  
148 day after requesting it, to the requested repair and maintenance information. The  
149 information may be provided for an equivalent model or model of the same  
150 family, if relevant;
- 151 (e) the available repair and maintenance information shall include:
- 152 • the unequivocal appliance identification;
  - 153 • a disassembly map or exploded view;
  - 154 • list of necessary repair and test equipment;
  - 155 • component and diagnosis information (such as minimum and maximum  
156 theoretical values for measurements);
  - 157 • wiring and connection diagrams;
  - 158 • diagnostic fault and error codes (including manufacturer-specific codes,  
159 where applicable);
  - 160 • instructions for installation of relevant software and firmware including  
161 reset software; and
  - 162 • information on how to access data records of reported failure incidents  
163 stored on the commercial dishwasher (where applicable);
- 164 (4) information requirements for refrigerant gases:  
165 without prejudice to Regulation (EU) 2024/573 of the European Parliament and of the  
166 Council<sup>1</sup>, for commercial dishwashers equipped with a heat pump, the chemical name  
167 of the refrigerant gas used, or equivalent reference such as a commonly used and  
168 understood symbol, label or logo, shall be displayed permanently and in a visible and  
169 readable way on the exterior of the appliance, for example on the back panel. More  
170 than one reference can be used for the same chemical name;
- 171 (5) requirements for dismantling for material recovery and recycling while avoiding  
172 pollution:
- 173 – manufacturers, importers or authorised representatives shall ensure that  
174 commercial dishwashers are designed in such a way that the materials and

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<sup>1</sup> Regulation (EU) 2024/573 of the European Parliament and of the Council of 7 February 2024 on fluorinated greenhouse gases, amending Directive (EU) 2019/1937 and repealing Regulation (EU) No 517/2014 (OJ L 253, 20.2.2024, p. 1–67)

175 components referred to in Annex VII to Directive 2012/19/EU can be removed  
176 with the use of commonly available tools;

177 – manufacturers, importers or authorised representatives shall fulfil the obligations  
178 laid down in Article 15, Point 1 of Directive 2012/19/EU.

## 179 6. INFORMATION REQUIREMENTS OTHER THAN SUBSTANCES OF 180 CONCERN

181 From *XX.XX.XXXX [18 months after adoption of this Regulation]*, commercial dishwashers  
182 shall meet the following requirements:

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

185 (1) the information on technical parameters included in Table 1, with its parameters  
186 measured and calculated (where necessary) in accordance with Annex III and showing  
187 the number of significant figures indicated in the table;

188 (2) information that the standard programme is suitable to clean normally soiled tableware  
189 and fulfil hygiene requirements, and that it is used to assess compliance with the EU  
190 Ecodesign for Sustainable Products Regulation (ESPR);

191 (3) information that loading the commercial dishwasher up to the capacity indicated by  
192 the manufacturer will contribute to energy and water savings and information on  
193 correct loading of tableware and main consequences of incorrect loading;

194 (4) information that manual pre-rinsing of tableware items leads to increased water  
195 consumption and is not recommended;

196 (5) information that the values given for programmes other than the standard programme  
197 are indicative only; and,

198 (6) instruction on how to find the model information stored in the product database, as set  
199 out in Regulation (EU) *XXXX/XXX [OP - Please insert here number of Regulation*  
200 *C(XXXX) XXXX on ecodesign requirements for commercial dishwashers]* by means of  
201 a weblink that links to the model information as stored in the product database or a  
202 link to the product database and information on how to find the model identifier on the  
203 product.

204 The user instructions shall also include instructions for the user to perform maintenance  
205 operations. Such instructions shall as a minimum include instructions for:

206 (1) correct installation (including level positioning, connection to mains, connection to  
207 water inlets, cold and/or hot if appropriate);

208 (2) correct use of detergent and rinse aid, and main consequences of incorrect dosage;

209 (3) foreign object removal from the commercial dishwasher;

210 (4) periodic cleaning, including optimal frequency and limescale prevention, and  
211 procedure;

212 (5) periodic checks of filters, including optimal frequency, and procedure;

213 (6) identification of errors, the meaning of the errors, and the action required, including  
214 identification of errors requiring professional assistance;

215 (7) how to access professional repair (internet webpages, addresses, contact details).

216 Such instructions shall also include information on:

- 217 (1) any implications of self-repair or non-professional repair for the safety of the end-user  
 218 and for the guarantee;
- 219 (2) the minimum period during which spare parts for the commercial dishwasher are  
 220 available.

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**Table 1 - Information requirements for technical parameters**

<b>General information</b>		
Supplier's name or trade mark		
Supplier's address		
Model identifier		
Type of commercial dishwasher	Under-counter one-tank dishwasher	[Yes/No]
	Hood-type dishwasher	[Yes/No]
Design options implemented	Exhaust heat recovery (regenerator)	[Yes/No]
	Exhaust air heat pump	[Yes/No]
	Automatic programme for load and soil recognition	[Yes/No]
	Improved thermal insulation (double-walled design)	[Yes/No]
	Further substitution of metals by polymers	[Yes/No]
	Modular design and reuse of electronics	[Yes/No]
	Energy recovery from drain water	[Yes/No]
	Other (please specify):	[Yes/No]
<b>Performance of the standard programme</b>		
Energy consumption for initial fill	X,X	kWh
Water consumption for initial fill	X,X	l
Power of ready-to-use mode	X,X	kW
Number of plates per rack	X	-
Cleaning performance ( $X_{\text{clean}}$ )	X	%

Resoiling performance ( $x_{res}$ )	X,X	-
Hygienic performance	Number of bioindicators with a minimum reduction of 5-log level (in the cutlery tray)	X
	Number of bioindicators with a minimum reduction of 4-log level (in the cutlery tray)	X
	Share of bioindicators with a minimum reduction of 5-log level (on test plates)	X
	Number of bioindicators with a minimum reduction of 4-log level (on test plates)	X
	Number of bioindicators with a minimum reduction of 5-log level (in the test rack)	X
Energy consumption per cycle	X,X	kWh
Water consumption per cycle	X,X	l
Energy consumption per plate (SPEC)	X,XXX	kWh
Water consumption per plate (SPWC)	X,XXX	l
Programme time ( $T_{SPR}$ )	X	s

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## 224 7. INFORMATION REQUIREMENTS ON SUBSTANCES OF CONCERN

225 Information that makes it possible to track substances of concern shall be accessible through a  
 226 data carrier included on the product, and shall incorporate the information on intentionally  
 227 added substances of concern, if they are present in the product above the following  
 228 concentrations at the level of components:

229 (a) From ~~XX.XX.XXXX~~ [~~XX~~18 months after adoption of this Regulation], 0,1% weight by  
 230 weight (w/w) for substances of concern defined in Article 2(27)(a) and (c) of Regulation (EU)  
 231 2024/1871;

232 (b) From ~~XX.XX.XXXX~~ [~~XX~~36 months after adoption of this Regulation], for substances of  
 233 concern defined in Article 2(27)(b) of Regulation (EU) 2024/1781:

234 (i) carcinogenicity categories 1 and 2: 0,1% w/w

235 (ii) germ cell mutagenicity category 1: 0,1% w/w

236 (iii) germ cell mutagenicity category 2: 1,0% w/w

237 (iv) reproductive toxicity categories 1 and 2: 0,1% w/w

- 238 (v) endocrine disruption for human health category 1: 0,1 % w/w  
239 (vi) endocrine disruption for human health category 2: 1,0% w/w  
240 (vii) endocrine disruption for the environment category 1: 0,1% w/w  
241 (viii) endocrine disruption for the environment category 2: 1,0% w/w  
242 (ix) persistent, mobile and toxic or very persistent, very mobile properties: 0,1% w/w  
243 (x) persistent, bioaccumulative and toxic or very persistent, very bioaccumulative  
244 properties: 0,1% w/w  
245 (xi) respiratory sensitisation category 1: 0,1% w/w  
246 (xii) skin sensitisation category 1: 0,1% w/w  
247 (xiii) hazardous to the aquatic environment - categories chronic 1 to 4: 1,0% w/w  
248 (xiv) hazardous to the ozone layer: 0,1% w/w  
249 (xv) specific target organ toxicity - repeated exposure categories 1 and 2: 1,0 % w/w  
250 (xvi) specific target organ toxicity - single exposure categories 1 and 2: 1,0 % w/w

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252 Components for the purpose of information requirements on substances of concern in  
253 commercial dishwashers include, but are not limited to:

- 254 (1) Casings  
255 (2) Cooling agents (contained in heat pumps)  
256 (3) Dosing system (especially hoses, tubing, valves)  
257 (4) Fittings (for pumps, water inlets)  
258 (5) Gaskets  
259 (6) Housings (of motors and pumps)  
260 (7) LCD panels  
261 (8) Motors  
262 (9) O-rings  
263 (10) Printed circuit boards (especially program control units)  
264 (11) Pumps  
265 (12) Racks and baskets  
266 (13) Solenoid valves  
267 (14) Tanks  
268 (15) Wiring harnesses (electrical cables)

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270 The information shall include the following:

- 271 (a) the name or numerical code of the substance of concern present in the product, as  
272 follows:
- 273 (i) name in the International Union of Pure and Applied Chemistry (IUPAC)  
274 nomenclature, or another international name when IUPAC name is not available;
- 275 (ii) other names, including usual name, trade name, abbreviation;
- 276 (iii) European Community (EC) number, as indicated in the European Inventory of  
277 Existing Commercial Chemical Substances (EINECS), the European List of  
278 Notified Chemical Substances (ELINCS) or the No Longer Polymer (NLP) list or  
279 the number assigned by the European Chemicals Agency (ECHA), if available  
280 and appropriate;
- 281 (iv) the Chemical Abstract Service (CAS) name and number, if available;
- 282 (b) the location of the substances of concern within the product;
- 283 (c) the concentration range of the substances of concern, at the level of the components;
- 284 (d) relevant instructions for the safe use of the product;
- 285 (e) information relevant for disassembly, preparation for reuse, reuse, recycling and the  
286 environmentally sound management of the product at end-of-life.

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### ANNEX III

## Measurement methods and calculations

289 For the purposes of compliance and verification of compliance with the requirements of this  
290 Regulation, measurements and calculations shall be made using harmonised standards the  
291 reference numbers of which have been published for this purpose in the *Official Journal of the*  
292 *European Union*, or other reliable, accurate and reproducible methods, which take into account  
293 the generally recognised state-of-the-art, and in line with the following provisions.

294 The standard programme at rated capacity shall be used for the measurement and calculation of  
295 the energy consumption, water consumption, cleaning and resoiling performance, and  
296 programme duration of a commercial dishwasher model.

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#### 298 1. ENERGY CONSUMPTION

299 The standard programme energy consumption (SPEC) is calculated as follows and rounded to  
300 three decimal place:

$$301 \quad \text{SPEC} = \frac{E_C}{p_R}$$

302 where:

303  $E_C$  is the standard programme energy consumption of the commercial dishwasher  
304 measured in kWh/cycle and rounded to three decimal places;

305  $p_R$  is the number of plates per rack of the commercial dishwasher in the standard  
306 programme.

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#### 308 2. WATER CONSUMPTION

309 The standard programme water consumption (SPWC) is calculated as follows and rounded to  
310 three decimal places:

$$311 \quad \text{SPWC} = \frac{V_C}{p_R}$$

312 where:

313  $V_C$  is the standard programme water consumption of the commercial dishwasher  
314 measured in l/cycle and rounded to one decimal places;

315  $p_R$  is the number of plates per rack of the commercial dishwasher in the standard  
316 programme.

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#### 318 3. CLEANING PERFORMANCE

319 The calculation of the cleaning performance ( $x_{\text{clean}}$ ) of a commercial dishwasher model is  
320 calculated as follows and rounded to two decimal places:

$$321 \quad x_{\text{clean}} = 1 - \frac{T_{NRD}}{T_{NAD}} \cdot 100\%$$

322 where:

323  $T_{NRD}$  is the total number of remaining dots

324  $T_{NAD}$  is the total number of applied dots

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#### 326 4. RESOILING PERFORMANCE

327 The calculation of the resoiling performance ( $x_{res}$ ) of a commercial dishwasher model is  
328 calculated as follows and rounded to two decimal places:

$$329 \quad x_{res} = \frac{T_{NFP}}{T_{NEP}}$$

330 where:

331  $T_{NFP}$  is the total number of particles found;

332  $T_{NEP}$  is the total number of evaluated plates.

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#### 334 5. PROGRAMME DURATION

335 The programme duration for the standard programme ( $T_{SPR}$ ) is measured from the initiation of  
336 the programme (excluding any user-programmed delay) until an end of programme indicator is  
337 showing the end of the programme.  $T_{SPR}$  is expressed in seconds.

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#### 339 6. HYGIENIC PERFORMANCE

340 When measuring the above mentioned parameters, the commercial dishwasher shall fulfil the  
341 following hygienic requirements in the applied standard programme:

342 (1) Bacterial reduction measured at bioindicators in the cutlery tray:

343 (a) Minimum 7 out of 8 bioindicators shall show a minimum reduction of 5-log  
344 levels<sup>2</sup>;

345 (b) None of the bioindicators shall show a reduction below 4-log levels<sup>Fehler! Textmarke  
346 nicht definiert.</sup>;

347 (2) Bacterial reduction measured at bioindicators on test plates:

348 (a) Minimum 90 % of the bioindicators shall show a minimum reduction of 5-log  
349 levels<sup>Fehler! Textmarke nicht definiert.</sup>;

350 (b) None of the bioindicators shall show a reduction below 4-log levels<sup>Fehler! Textmarke  
351 nicht definiert.</sup>;

352 (3) Bacterial reduction measured at bioindicators in the test rack: All 10 bioindicators shall  
353 show a minimum reduction of 5-log levels<sup>Fehler! Textmarke nicht definiert.</sup>.

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<sup>2</sup> Log levels are expressed as logarithms (base 10).

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*ANNEX IV*

355

**Verification procedure for market surveillance purposes**

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

361 Where a model has been designed to be able to detect it is being tested (e.g. by recognising the  
362 test conditions or test cycle), and to react specifically by automatically altering its performance  
363 during the test with the objective of reaching a more favourable level for any of the parameters  
364 specified in this Regulation or included in the technical documentation or included in any of  
365 the documentation provided, the model and all equivalent models shall be considered not  
366 compliant.

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

- 370 (1) the Member State authorities shall verify one single unit of the model;
- 371 (2) the model shall be considered to comply with the applicable requirements if:
- 372 (a) the values given in the technical documentation pursuant to point (2) of  
373 Annex IV to Directive 2009/125/EC (declared values), and, where applicable,  
374 the values used to calculate these values, are not more favourable for the  
375 manufacturer, importer or authorised representative than the results of the  
376 corresponding measurements carried out pursuant to paragraph (g) thereof; and
- 377 (b) the declared values meet any requirements laid down in this Regulation, and any  
378 required product information published by the manufacturer, importer or  
379 authorised representative does not contain values that are more favourable for  
380 the manufacturer, importer or authorised representative than the declared values;  
381 and
- 382 (c) when the Member States authorities check the unit of the model, they find that  
383 the manufacturer, importer or authorised representative has put in place a system  
384 that complies with the requirements in the second paragraph of Article 6; and
- 385 (d) when the Member States authorities check the unit of the model, it complies with  
386 programme requirements in point 1, energy consumption requirements in  
387 point 3, water consumption requirements in point 4, resource efficiency  
388 requirements in point 5 and information requirements in point 6 of Annex II; and
- 389 (e) when the Member State authorities test the unit of the model, the determined  
390 values (the values of the relevant parameters as measured in testing and the  
391 values calculated from these measurements) comply with the respective  
392 verification tolerances as given in Table 3;
- 393 (3) if the results referred to in point (2)(a), (b), (c) or (d) are not achieved, the model and  
394 all equivalent models shall be considered not to comply with this Regulation;
- 395 (4) if the result referred to in point (2)(e) is not achieved, the Member State authorities  
396 shall select three additional units of the same model for testing. As an alternative, the  
397 three additional units selected may be of one or more equivalent models;

398 (5) the model shall be considered to comply with the applicable requirements if, for these  
399 three units, the arithmetical mean of the determined values complies with the  
400 respective verification tolerances given in Table 3;

401 (6) if the result referred to in point (5) is not achieved, the model and all equivalent models  
402 shall be considered not to comply with this Regulation;

403 (7) the Member State authorities shall provide all relevant information to the authorities  
404 of the other Member States and to the Commission without delay after a decision being  
405 taken on the non-compliance of the model according to points (3) or (6).

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

408 The Member State authorities shall only apply the verification tolerances that are set out in  
409 Table 3 and shall use only the procedure described in points 1 to 7 for the requirements referred  
410 to in this Annex. For the parameters in Table 3, no other tolerances, such as those set out in  
411 harmonised standards or in any other measurement method, shall be applied.

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**Table 3 - Verification tolerances**

<b>Parameter</b>	<b>Verification tolerances</b>
Energy consumption for initial fill	The determined value* shall not exceed the declared value by more than 10 %.
Water consumption for initial fill	The determined value* shall not exceed the declared value by more than 10 %.
Power of ready-to-use mode	The determined value* shall not exceed the declared value by more than 10 %.
Rated capacity (number of plates)	The determined value* shall not exceed the declared value by more than 10 %.
Cleaning performance ( $x_{\text{clean}}$ )	The determined value* shall not be less than the declared value of $x_{\text{clean}}$ by more than 10 %.
Resoiling performance ( $x_{\text{res}}$ )	Not applicable (indicative value)
Energy consumption per cycle	The determined value* shall not exceed the declared value by more than 10 %.
Water consumption per cycle	The determined value* shall not exceed the declared value by more than 10 %.
Standard programme energy consumption per plate (SPEC)	The determined value* shall not exceed the declared value of SPEC by more than 10 %.
Standard programme water consumption per plate (SPWC)	The determined value* shall not exceed the declared value of SPWC by more than 10 %.
Programme duration ( $T_{\text{SPR}}$ )	The determined value* shall not exceed the declared value of $T_{\text{SPR}}$ by more than 5 % or 6 seconds, whichever is the longer.

413 \*In the case of three additional units tested as prescribed in point 4, the determined value means  
414 the arithmetical mean of the values determined for these three additional units.

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*ANNEX V*  
**Benchmarks**

INDICATIVE BENCHMARKS FOR COMMERCIAL DISWASHERS ON WATER AND ENERGY CONSUMPTION AND PROGRAMME DURATION

At the time of entry into force of this Regulation, the best available technology on the market for commercial dishwashers in terms of their energy and water consumption and programme duration for the standard programme was identified as follows:

- (1) Under-counter one-tank dishwasher:
  - (a) energy consumption: 0.0143 kWh/plate;
  - (b) water consumption: ~~0.128~~0.0944 L/plate;
  - (c) programme duration: 122 seconds;
- (2) Hood-type dishwasher
  - (a) energy consumption: ~~0.0199~~0.0177 kWh/plate;
  - (b) water consumption: ~~0.111~~0.0928 L/plate;
  - (c) programme duration: ~~609~~60 seconds.