

Basic Criteria for Award of the Environmental Label

Household Dishwashers

RAL-UZ 152



February 2013

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Specimen Contract

1 Introduction

1.1 Preface

The Environmental Label Jury has set up these Basic Criteria for Award of the Blue Angel Eco-Label in co-operation with the Federal Ministry for the Environment, Nature Conservation and Nuclear Safety, the German Umweltbundesamt (Federal Environmental Agency) and considering the results of expert hearings conducted by RAL gGmbH. RAL gGmbH has been tasked with awarding the Environmental Label. Upon application to RAL gGmbH and on the basis of a Contract on the Use of the Environmental Label to be concluded with RAL gGmbH, the permission to use the Blue Angel eco-label may be granted for all products, provided that they meet the requirements specified hereinafter.

1.2 Background

Using a particularly energy efficient dishwasher rated „A+++“ for energy efficiency instead of an „A+“ rated appliance will reduce energy consumption by 26 percent on the average and even by 30 percent compared to an „A“ rated appliance. Water-saving dishwashers need a maximum of ten liters of water per wash cycle. In the future, Blue Angel eco-labelled dishwashers will feature time-control of home energy use to allow an ecologically reasonable use.

1.3 Objectives of the Blue Angel Eco-Label

Climate protection, the reduction of energy and water consumption as well as the avoidance of harmful substances and waste are key objectives of the Blue Angel eco-label.

The Blue Angel eco-label for dishwashers may be awarded to appliances with the following environmental properties:

- low energy and water consumption
- use of time-variable power supply
- low noise emissions
- long-lived and recyclable design
- avoidance of harmful substances

1.4 Basic Legal Provisions

Blue Angel eco-labelled products must, as a matter of course, comply with current laws and regulations, especially with the following ones:

- The requirements, as defined by Standby Regulation No 1275/2008 of 17 December 2008 implementing Directive 2005/32/EC¹, shall be met.
- The EU directives², as transposed into German law by Elektro- und Elektronikgesetz (ElektroG) (Electrical and Electronic Equipment Act)³, shall be complied with.
- The substance requirements, as defined by EU Chemicals Regulation REACH (1907/2006/EC)⁴ as well as Regulation EC No. 1272/2008⁵ (or Directive 67/548/EEC), shall be met.
- The requirements for energy labelling⁶ and implementation of the Ecodesign Directive⁷ shall be met.

¹ Commission Regulation (EC) No 1275/2008 of 17 December 2008 implementing Directive 2005/32/EC of the European Parliament and of the Council with regard to ecodesign requirements for standby and off mode electric power consumption of electrical and electronic household and office equipment.

² Directive on Waste Electrical and Electronic Equipment (WEEE), Directive 2002/96/EC of the European Parliament and of the Council, dated 27 January 2003, or its revision: Directive 2012/19/EU of the European Parliament and of the Council of 4 July 2012 on Waste Electrical and Electronic Equipment (WEEE);

Directive on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment, Directive 2002/95/EC, OJ No. 37 of 13 February 2003 or its revision: Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

³ Gesetz über das Inverkehrbringen, die Rücknahme und die umweltverträgliche Entsorgung von Elektro- und Elektronikgeräten (Act on the placing on the market, return and environmentally sound disposal of waste electrical and electronic equipment), Federal Law Gazette 2005, Part I, No.17 (23 May 2005).

⁴ Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

⁵ Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

⁶ Commission Delegated Regulation (EU) No 1059/2010 of 28 September 2010 supplementing Directive 2010/30/EU of the European Parliament and of the Council with regard to energy labelling of household dishwashers.

⁷ Commission Regulation (EU) No 1016/2010 of 10 November 2010 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for household dishwashers.

1.5 Testing Laboratories

All test reports and (measurement) protocols required under these Basic Criteria shall be prepared by laboratories meeting the requirements specified in DIN EN ISO/IEC 17025 or equivalent criteria. Test reports prepared by the applicant will be accepted as equivalent if the latter uses a testing laboratory that has been accredited for these measurements by an independent body as SMT (Supervised Manufacturer's Testing) laboratory.

2 Scope

These Basic Criteria apply to electric dishwashers for household use.

Excluded from the scope are dishwashers for semi-professional and professional use which feature special cleaning programmes for non-household use, e.g. medical offices, kindergartens etc..

3 Requirements

3.1 Energy Consumption

3.1.1 Energy Efficiency

The appliances shall at least meet the following energy efficiency ratings in accordance with Regulation (EU) 1059/2010 relating to household dishwashers:

- Dishwashers > 45 cm wide: Energy efficiency class „A+++“ (EEI < 50)
- Dishwashers ≤ 45 cm wide: Energy efficiency class „A++“ (EEI < 56)

Compliance Verification

The applicant shall declare compliance with the requirements in Annex 1 to the Contract and present a corresponding test report.

3.1.2 Power Consumption in „Left-On“, „Delay Start“ and “Off” Mode

In „Left-on“ (end-of-cycle) mode, the power consumption of the appliance shall not exceed 0.5 watts.

If the device comes with a display the power consumption in “Left-on“ (end-of-cycle) mode shall not exceed 1.00 watt.

In “Delay Start” mode, the power consumption of the appliance shall not exceed 4 watts.

In “Off” mode, the power consumption shall not exceed 0.2 watts.

Compliance Verification

The applicant shall declare compliance with the requirements in Annex 1 to the Contract and present a test report. Power consumption shall be determined in accordance with DIN EN 50564:2011.

3.2 Water Consumption

Water consumption for the standard cleaning cycle calculated according to Regulation (EU) 1059/2010 relating to household dishwashers shall not exceed the following limits:

- Dishwashers > 45 cm wide: maximum consumption: 2800 litres per year
- Dishwashers ≤ 45 cm wide: maximum consumption: 2520 litres per year.

Compliance Verification

The applicant shall declare compliance with the requirement in Annex 1 to the Contract and present a test report. Water consumption shall be determined in accordance with DIN EN 50242/EN 60436:2008.

3.3 AquaStop

The appliance shall come with an aquastop system. The applicant shall provide warranty on the proper functioning of the system for the entire life of at least 2800 standard cleaning cycles of the dishwasher, if properly installed. The product manual shall include the corresponding warranty information.

Compliance Verification

The applicant shall declare compliance with the requirement in Annex 1 and submit the relevant pages of the product manual.

3.4 Drying Efficiency

The drying efficiency index (ID) shall be rated as follows in accordance with Regulation (EU) 1016 / 2010:

$I_D > 1.08$ - corresponding to drying efficiency class „A“.

Compliance Verification

The applicant shall declare compliance with the requirement in Annex 1 and present a test report. Drying efficiency shall be determined in accordance with DIN EN 50242/EN 60436:2008.

3.5 Noise Emissions

The evaluation of the noise emissions shall be based on the sound power levels in dB(A) rounded up to the integer L_{Cn} . Dishwashers shall not exceed the following sound power levels L_C :

- 44 dB(A) for appliances ≤ 45 cm wide;
- 42 dB(A) for appliances > 45 cm wide.

The product manual shall list the sound power level.

Compliance Verification

The applicant shall declare compliance with the requirement in Annex 1 to the Contract and present a test report as well as the relevant pages of the product manual. The noise emissions shall be determined in accordance with DIN EN 60704-1 meeting the special requirements specified in DIN EN 60704-2-3 and expressed in dB(A) in accordance with DIN EN 60704-3 rounded up to the integer L_C . The results of the noise emission test shall be given in Annex 1.

3.6 Delay Start/ Interconnectivity

The appliance shall feature a delay start option (delay timer) that allows the user to delay the start of the wash cycle for at least 8 hours.

From January 1, 2015, the appliances shall additionally be equipped with an interface enabling communication and control (interconnectivity) via the grid.

Compliance Verification

The applicant shall declare compliance with the requirements in Annex 1 to the Contract and submit the relevant pages of the product manual.

3.7 Spare Parts Provision

The applicant undertakes to make sure that the provision of spare parts for appliance repair is guaranteed for at least 10 years following the termination of production and that the customer is informed about this guaranteed availability of spare parts, e.g. by means of corresponding notes in the product manual.

Spare parts are those parts which, typically, may break down within the scope of the ordinary use of a product - whereas those parts which normally exceed the average life of the product (aesthetic parts) are not to be considered as spare parts.

Also, the applicant undertakes to provide after-sales services or hire a company to perform on-site repair work at customer's premises.

The product manual shall include information on the above requirements.

Compliance Verification

The applicant shall declare compliance with the requirements in Annex 1 and submit the relevant pages of the product manual.

3.8 Material Requirements for the Plastics used in Housing and Housing Parts⁸

The plastics must not contain as constituents any substances classified as

- a) carcinogenic in category 1 or 2 according to Table 3.2 of Annex VI to Regulation (EC) No 1272/2008⁹,
- b) mutagenic in category 1 or 2 according to Table 3.2 of Annex VI to Regulation (EC) No 1272/2008
- c) toxic to reproduction in category 1 or 2 according to Table 3.2 of Annex VI to Regulation (EC) No 1272/2008
- d) being of very high concern for other reasons according to the criteria of Annex XIII to the REACH Regulation, provided that they have been included in the List (so-called "Candidate List"¹⁰) set up in accordance with REACH, Article 59, paragraph 1.

Halogenated polymers shall not be permitted. Nor may halogenated organic compounds be added as flame retardants. Moreover, no flame retardants may be added which are classified pursuant to Table 3.1 or 3.2 in Annex VI to Regulation (EC) 1272/2008 as very toxic to aquatic organisms with long-term adverse effect and assigned the Hazard Statement H 410 or Risk Statement R 50/53.

⁸ Housing parts are a means of protection and design – Their task is, for example, to protect the operator (from electric voltage), or the appliance from environmental influences (dirt and humidity).

⁹ Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006, Annex VI Harmonized classification and labelling for certain hazardous substances, Part 3: Harmonized classification and labelling – Tables, Table 3.2, – List of harmonized classification and labelling of dangerous substances from Annex I to Directive 67/548/EEC, (short: GHS Regulation). http://www.reach-info.de/ghs_verordnung.htm, as amended.

The GHS Regulation (Global Harmonization System), that has come into force on January 20, 2009, replaces the old Directives 67/548/EEC and 1999/45/EC. According to the said regulation, substances are classified, labelled and packed until December 1, 2010 in accordance with Directive 67/548/EEC (Dangerous Substances Directive) while mixtures are classified, labelled and packed until June 1, 2015 in accordance with Directive 1999/45/EC (Dangerous Preparations Directive). Notwithstanding this, substances and preparations may be classified, labelled and packed in accordance with the provisions of the GHS Regulation already before December 1, 2010 or June 1, 2015, respectively. In such case, the provisions of Dangerous Substances Directive or Dangerous Preparations Directive shall not be applicable.

¹⁰ Link to the Candidate List of Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH): <http://echa.europa.eu/web/guest/candidate-list-table>

The following shall be exempt from this rule:

- process-related, technically unavoidable impurities;
- fluoroorganic additives (as, for example, anti-dripping agents) used to improve the physical properties of plastics, provided that they do not exceed 0.5 weight percent;
- plastic parts less than 25 grams in mass.

Compliance Verification

The applicant shall declare compliance with the requirements in Annex 1 and submit a written declaration from the plastic manufacturers or ensure the submission of such declaration to RAL gGmbH. Such declaration in Annex P-M shall confirm that the banned substances have not been added to the plastics and give the chemical designation of the flame retardants used, including CAS No. and classifications.

The applicant shall name the housing plastics used for parts ≥ 25 grams in mass and submit a list of the housing plastics used pursuant to Annex P-L 25.

3.9 Insulation Materials

If fibrous insulation materials are used, such as mineral, glass or rock wool, the applicant shall present a test report showing that the carcinogenicity index (CI) of the products concerned is ≥ 40 and, hence, the material need not be classified as carcinogenic or suspected of causing cancer in accordance with the classification scheme of TRGS 905.

Ceramic mineral fibres, i.e. glassy (silicate) fibres with an alkali metal oxide and earth alkali metal oxide content ($\text{Na}_2\text{O} + \text{K}_2\text{O} + \text{CaO} + \text{MgO} + \text{BaO}$) of less than or equal to 18 weight percent may not be used.

Compliance Verification

The applicant shall declare compliance with the requirement in Annex 1. If fibrous insulation materials are used the applicant shall present a test report prepared by a DIN EN ISO/IEC 17025 accredited testing laboratory. The carcinogenicity index shall be determined in accordance with TRGS 905 on the basis of the measured values obtained pursuant to DIN 51001.

3.10 Systems using Biocidal Silver

The use of systems using biocidal silver shall not be permitted.

Compliance Verification

The applicant shall declare compliance with the requirement in Annex 1.

3.11 Recyclable and Easy-to-Maintain Design

The appliance shall be so designed as to allow quick and easy disassembly with a view to facilitating repair and separation of valuable components and materials. This means that:

- it must be possible to separate the connections concerned by the use of ordinary tools and the joints must be easily accessible,
- plastics should consist of only one polymer or plastic parts greater than 25 g in mass must be marked according to ISO 11469 to allow for a sorting of plastics by type and
- disassembly instructions must be made available to end-of-life recyclers or treatment facilities in order to recover as many valuable resources as possible.

Compliance Verification

The applicant shall declare compliance with the requirement in Annex 1 to the Contract and present the corresponding disassembly instructions for end-of-life recyclers or recycling treatment facilities.

3.12 Consumer Information

The energy, water and detergent consumption of dishwashers greatly depends on the user behaviour (above all, by the user's way of loading and cleaning program selection). The operating instructions/product manual as well as manufacturer's website shall at least include the following basic user information/instructions:

1. Recommendation to adjust the amount of detergent to the level of soiling and a note stating that energy and water-saving cycles usually suffice for daily use;
2. Recommendation to adjust the salt usage to the hardness of the local water;
3. Note stating that there is no need to rinse the dishes before placing them in the dishwasher;
4. Information on the appliance's water and energy consumption for the individual programmes as well as for the selectable additional functions (presented in a table, if possible);
5. Information on the offers for using time-variable power supply;
6. Note stating that most of the energy required to run a dishwasher is used to heat the water. An appliance with hot-water-connection can help reduce this energy consumption. The use of a hot-water connection (maximum 60°C) is recommended if hot water can be provided by solar panels, district heating, a modern gas or oil heating system or by a suitable gas-fired instantaneous water heater and if the inlet hose to the appliance is short and properly thermally

insulated. No more than 1.5 litres of cold water should drain off before hot water actually flows;

7. Recommendation not to use the dishwasher until it is fully loaded (pictures showing the proper loading of the dishwasher would be useful);
8. Reference to the website „Forum Waschen“, providing information on proper dishwashing: <http://www.forum-waschen.de/abwaschen-geschirrspülen.html>
9. Information on the 10-year provision of spare parts as well as a contact address/phone number for information on where to obtain spare parts.

Compliance Verification

The applicant shall declare compliance with the requirement in Annex 1 to the Contract and submit the respective pages of the product manual.

4 Applicants and Parties Involved

4.1 Manufacturers or distributors of products under para. 2 shall be eligible for application.

4.2 Parties involved in the award process are:

- RAL gGmbH to award the Blue Angel eco-label,
- the federal state being home to applicant's production site,
- Umweltbundesamt (Federal Environmental Agency) which after the signing of the contract receives all data and documents submitted in application for the Blue Angel in order to be able to further develop the Basic Award Criteria.

5 Use of the Blue Environmental Label

5.1 The terms governing the use of the Environmental Label by the applicant are stipulated by a Contract on the Use of the Environmental Label to be concluded with RAL gGmbH.

5.2 Within the scope of such contract the applicant undertakes to comply with the requirements under paragraph 3 while using the environmental label.

5.3 Contracts on the Use of the Environmental Label are concluded to fix the terms for the certification of products under paragraph 2. Such contracts shall run until December 31, 2016.

They shall be extended by periods of one year each, unless terminated in writing by March 31, 2016 or March 31 of the respective year of extension.

After the expiry of the contract the Environmental Label may neither be used for labelling nor for advertising purposes. This regulation shall not affect products being still in the market.

- 5.4** The applicant (manufacturer) shall be entitled to apply to RAL gGmbH for an extension of the right to use the eco-label to the product entitled to the label if it is to be marketed under another brand/trade name and/or other marketing organizations.
- 5.5** The Contract on the Use of the Environmental Label shall specify:
 - 5.5.1** Applicant (manufacturer/distributor)
 - 5.5.2** Brand / trade name, product designation
 - 5.5.3** Distributor (label user), i.e. the marketing organization under para. 5.4.

CONTRACT

No.

on the Award of the Blue Angel Environmental Label

RAL gGmbH as the label-awarding agency and the
firm of
(Distributor)

as applicant conclude the following

Contract on the Use of the Environmental Label:

S P E C I M E N

1. The applicant shall - under the following conditions - be entitled to use the Environmental Label forming the basis of this Contract for the labelling of the product / product group / project:
"Household Dishwashers" for

"(Brand/Trade name)"

This shall not include the right to use the Environmental Label as part of a brand. Unless otherwise agreed, the Environmental Label shall only be used in the above given shape and colour and shall be marked at the bottom "Jury Umweltzeichen" (Environmental Label Jury). The entire inner surrounding text shall always be identical as regards font size, form, thickness and colour and it shall be easy to read.
2. The Environmental Label according to para. 1 may only be used for the above-mentioned product / product group / project.
3. If the Environmental Label is used for advertising purposes or other applicant activities the applicant shall make sure that it is exclusively used in connection with the above-named product / product group / project for which the use of the Environmental Label has been granted and settled under this contract. The applicant shall be solely responsible for the way the label is used, above all, in advertising.
4. During the entire period of label use the product / product group / project to be labelled shall comply with all requirements and conditions for the use of the label as specified in the "Grundlage für Umweltzeichen-Vergabe RAL-UZ 152" (Basic Criteria for Award of the Environmental Label RAL-UZ 152), as amended. This shall also apply to the reproduction of the Environmental Label (including surrounding text). Claims for damages against RAL gGmbH, especially on the grounds of third party objections to applicant's use of the label and the accompanying advertising shall be ruled out.
5. If the "Basic Criteria for Award of the Environmental Label" provide for checks by third parties the applicant shall bear the costs accruing in connection therewith.
6. Should the applicant himself or third parties find out that the applicant does not comply with the conditions as stipulated in paras. 2-5 the applicant shall be liable to inform RAL gGmbH and stop the use of the Environmental Label until the conditions are complied with again. Should the applicant be incapable of restoring the state required for the use of the label immediately or should the applicant seriously offend against this contract RAL gGmbH may, if necessary, withdraw the Environmental Label and prohibit the applicant from using the label any longer. Claims for damages against RAL gGmbH because of the withdrawal of the label shall be ruled out.
7. The Contract on the Use of the Environmental Label may be terminated for good reason.
Examples of good reasons are:
- unpaid contributions
- substantiated risk of injury and death.
In such case, applicant's continued use of the Environmental Label shall be prohibited. The applicant shall not be entitled to bring a claim for damages against RAL gGmbH (see above: paragraph 6, sentence 3).
8. The applicant undertakes to pay RAL gGmbH an amount according to the "Entgeltordnung für das Umweltzeichen" (Schedule of Fees for the Environmental Label), as amended, for the period of use.
9. According to the Basic Criteria for Award of the Environmental Label RAL-UZ 152 this contract will run until **December 31, 2016**. It shall be extended by periods of one year each, unless terminated in writing by **March 31, 2016** or by March 31 of the respective year of extension. After the expiry of the contract the Environmental Label may neither be used for labelling nor for advertising purposes. This regulation shall not affect the products being still in the market.
10. Products / projects marked with the Environmental Label and the advertising for these products / projects may reach the consumer only when naming the company of the
(Applicant/Distributor).

Sankt Augustin, this day of20..

Place, Date

RAL gGmbH
Management

(Signature of authorized person
and company stamp)