The European Eco-label for Dishwashers

"The official EU mark for Greener Products"

If you want to show your commitment to a better environment:

Choose the Flower for your Dishwashers

Once it's on your products, the Flower guarantees:

- Reduced energy consumption (energy saving programs)
- Reduced use of detergents
- Reduced water consumption
- Limited noise
- Designed for easy disassembling and recycling
- User instructions for environmental use
- Guaranteed washing and drying performance A or B class
- Take-back policy for recycling after use

It can be awarded to electric household dishwashers. Appliances that may also use other energy sources or have no internal heat source are excluded.

Meet your customers' demand

Consumers are today more sensitive to the protection of the environment. Four out of five European consumers would like to buy more environmentally friendly products, provided they are properly certified by an independent organisation.

With the Flower on your products you offer them a reliable guide to easily identify the good environmental performers available on the market.

Give your dishwashers a credible sign of Environmental Excellence...

Apply for the Flower!

For a quick test use the check list on the back

Did you know that:

- 6 million dishwashers are sold each year in Europe.
- This corresponds to hundred thousands potential tonnes of waste per year.
- The EU Eco-label criteria encourage easy dismantling for easier recycling, thus minimising the environmental impacts of dishwasher waste.
- Moreover, if only 5% of these dishwashers sold every year in Europe were EU Eco-labelled:
  - the energy savings would lead to avoid the emissions of 12 300 t of CO₂ per year. This is equivalent to the emissions of a car going 1 900 times round the Earth!
  - 20 185 400 L of water per year would be saved. This is equivalent to the drinking and cooking water consumption of 7400 people per year!

The EU Eco-label, a high value for your products!

Sources: "the Direct and Indirect Benefits of the EU Eco-label", AEAT, 2004.

For more information...

... on the scheme, its feature, the actors involved, the application process...
http://ec.europa.eu/ecolabel

... on the "dishwashers" product group: detailed criteria, date of revision...
http://ec.europa.eu/ecolabel
Choose "product groups" on the menu on the left
<table>
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<tr>
<th>Life Cycle Step</th>
<th>Criterion</th>
<th>Expectations</th>
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<tr>
<td>Manufacturing</td>
<td>Energy saving</td>
<td>The dishwasher shall be suitable for connection to a hot-fill water supply. Dishwashers with 10 or more place settings shall have an energy efficiency index $\leq 0.58$ as defined in Annex IV to Directive 97/17/EC. Dishwashers with less than 10 (but more than 5) place settings shall have an energy efficiency index $\leq 0.64$ as defined in Annex IV to Directive 97/17/EC. Dishwashers with 5 or less place settings shall have an energy efficiency index $\leq 0.76$ as defined in Annex IV to Directive 97/17/EC.</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>Design for environmental use</td>
<td>Low temperature ($\leq 65^\circ$C) washing cycle available for a standard load. Clear indication of the appropriate settings for the programmes available. Where applicable, the appliance shall allow the salt dosing to be adjusted to the local water hardness, and shall have salt refill indicator.</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>Limitation of the use of substances harmful to health and the environment</td>
<td>Plastic parts heavier than 25 g shall not contain: - flame retardant substances or preparations that are assigned any of the following risk phrases: R45, R46, R50, R51, R52, R53, R60, R61 as defined in Council Directive 67/548/EEC and its amendments. - a list of flame retardants containing organically bound bromine, nor chloroparaffin flame retardants with chain length 10-13 carbon atoms and chlorine content &gt; 50% by weight.</td>
</tr>
<tr>
<td>Use</td>
<td>Water saving</td>
<td>Water consumption (in L/cycle) $\leq (0.625 \times S) + 9.25$ where S is the number of standard place settings.</td>
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<tr>
<td>Use</td>
<td>Reduction of noise</td>
<td>Airborne noise $\leq 53$ dB(A) for free standing models and $\leq 50$ dB(A) for built-in models. Information about the noise level of the machine provided in a clearly visible way to the consumer.</td>
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<tr>
<td>Use</td>
<td>User instructions for correct environmental use</td>
<td>The following information shall come with the product: - Recommendations for optimal use of the machine related to noise and energy. - Adjust salt dosing to the local water hardness, if applicable. - Use a full load whenever possible. - Avoid rinsing items before placing them in the dishwasher. - Best uses of the rinse and hold option, if available. - Information on the levels of energy and water consumption for the different programmes as well as information on the levels of stand-by consumption. - Switch-off the machine after completion of its cycle to avoid possible stand-by energy losses. - Advice on appropriate maintenance of the dishwasher. - Information on power requirements during the following modes: off mode, timer mode (programming), programme ended mode. - Availability of detergents that work best at temperatures $\leq 65^\circ$C and have the potential to save energy. - Recommended dosages of detergents. - Information that ignoring the above-mentioned instructions can lead to higher energy, water and/or detergent consumption and thus increased costs and poor performance.</td>
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<tr>
<td>Use</td>
<td>Prevention of excessive use of detergents</td>
<td>Clear volumetric markings on the detergent dispenser.</td>
</tr>
<tr>
<td>Use</td>
<td>Performance</td>
<td>Cleaning performance class A or B as defined in Annex IV to Directive 97/17/EC. Drying performance class A or B as defined in Annex IV to Directive 97/17/EC.</td>
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<tr>
<td>End of life</td>
<td>Eco-design to facilitate recycling</td>
<td>Easy disassembly of the machine taken into account in the design. A disassembly report shall be made available upon request. Plastic parts heavier than 50 g: permanent marking identifying the material, in conformity with ISO 11469 standard.</td>
</tr>
<tr>
<td>End of life</td>
<td>Reduction of solid waste</td>
<td>Take-back for recycling free of charge. Information on take-back policy.</td>
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<tr>
<td>End of life</td>
<td>Durability</td>
<td>Lifetime extension: the availability of compatible replacement parts shall be guaranteed for 12 years from the time that production ceases. Commercial guarantee ensuring that the dishwasher will function for at least two years from the date of delivery.</td>
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</tbody>
</table>

Your Competent Body will inform you which assessment and verification documents are required (e.g. declarations of compliance, MSDS of ingredients), which test results must be provided and how the testing should be carried out (external test laboratories).

To market your eco-labelled products use our free Green Store:

http://www.eco-label.com