

Hong Kong Green Label Scheme

Product Environmental Criteria for Clothes Dryers (GL-007-003)



BACKGROUND

The Hong Kong Green Label Scheme (HKGLS) is an independent and voluntary scheme, which aims to identify products that are, based on life cycle analysis consideration, more environmentally preferable than other similar products with the same function. The Scheme is organized by the Green Council (GC) with contributions from the HKGLS Advisory Committee and a number of supporting organizations.

The prime objectives of HKGLS are:

- For Consumers: assist in making purchases of products that are less harmful to the environment;
- For Industry: stimulate development and production of environmentally preferable alternatives.

This specification sets out the requirements that clothes dryers will be required to meet in order to be licensed to use the HKGLS label. The requirements include environmental criteria and product characteristics. The specification also defines the testing and other means to be used to verify conformance with the environmental criteria and product characteristics.

POTENTIAL ENVIRONMENTAL IMPACTS

Energy consumption is the key environmental impact for clothes dryers in product use stage. Other environmental impacts include air and noise emissions. The worn-out clothes dryers and the packaging materials of clothes dryers burden our environment through the generation of solid waste.

LABEL OBJECTIVE

The aim of the environmental criteria developed for clothes dryers is to:

- Reduce energy consumption and promote energy-saving clothes dryers;
- Reduce noise emission and promote low-noise clothes dryers;
- Minimize waste production by reducing the amount of primary packaging and promoting its reusability and/or recyclability.

PRODUCT DEFINITION

This document and all product environmental criteria therein apply to domestic clothes dryers, which have drying capacity normally not exceeding 10 kg. Both air vented and condenser types of clothes dryers are included in the product category. However, appliances that have larger capacity, or for industrial use, or those using non-electrical energy sources are excluded from this product category.

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PRODUCT ENVIRONMENTAL CRITERIA

The table below sets out the product environmental criteria for clothes dryers (GL-007-003) under the HKGLS.

Product Environmental Criteria	Verification Method(s)*
1. The Energy Consumption Index (ECI) of the appliance shall meet the HKSAR EMSD Energy Efficiency Label Scheme (EELS) energy efficiency grade 3 requirement or better.	✓ Review of laboratory test report(s). ¹
2. Noise Emission: Airborne noise emission from the appliance, measured as sound power level, shall not exceed 62dB (A) for ventilation models and 66 dB (A) for condensation models.	✓ Review of laboratory test report(s). ²
3. Plastic parts shall have no lead or cadmium added by the manufacturer and plastic parts weighing over 25g shall not contain flame retardants containing polybrominated biphenyls (PBBs), polybrominated diphenylethers (PBDEs) and chloroparaffins with 10-13 carbon atoms per molecule and chlorine content of greater than 50% by weight.	✓ Review of laboratory test report(s). ³
4. Surface Treatment: Paints shall not contain pigments or additives based on cadmium, lead, chromium, mercury or their compounds. Metals shall not be coated with cadmium, chromium, nickel or their compounds.	✓ Review of laboratory test report(s). ^{3 or 4}
5. Packing requirements: <ul style="list-style-type: none"> • Packaging materials shall not contain chlorine-based plastics; • General packaging requirements (refer to criteria for packaging materials: GL-Packaging). 	✓ Inspection of product samples; AND ✓ Review of supporting information; AND ✓ Interview with relevant personnel.

*Analytical testing should be accredited and performed by laboratories that meet the requirement laid out in the IEC/ISO 17025 or EN45001 standards or any equivalent systems e.g. HOKLAS, CNAS. Under special situation and with the approval from GC, test can be performed by in-house method by the accredited laboratory or manufacturer.

Note:

1. **Test Method:** HKSAR EMSD EELS method or IEC 61121 or equivalent
2. **Test Method:** EN60704 or equivalent

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3. **Test Method for cadmium, lead, hexavalent chromium and mercury:** US EPA 3050B/3051A/3052/3060A or equivalent with detection limits shall be no greater than 2 ppm.
- Test Method for PBBs and PBDEs:** US EPA 3540C/8081A/8082A/8270D or equivalent with detection limits shall be no greater than 5 ppm.
- Test Method for chloroparaffins:** US EPA 8270D/3540C/GC-MSD or equivalent with detection limits shall be no greater than 5 ppm.
4. **Test Method for cadmium, lead, chromium (VI), mercury in paints:** ASTM D3335/ASTM D3624/ISO 3856 or equivalent
- Test Method for cadmium, nickel and chromium in metal coating:** ASTM C810/C872/D5723 or equivalent