
The Hong Kong Voluntary Energy Efficiency Labelling Scheme for

Electric Clothes Dryers January 2020

Energy Efficiency  **EMSD**

Electrical and Mechanical Services Department

3 Kai Shing Street, Kowloon, Hong Kong

Homepage: <http://www.emsd.gov.hk>

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1. Purpose

- 1.1 This set of document is intended to give a general description to the Hong Kong Voluntary Energy Efficiency Labelling Scheme for Electric Clothes Dryers (the Scheme).

2. Background

- 2.1 The Energy Efficiency Labelling Scheme (EELS) is an energy conservation initiative that the Government of the Hong Kong Special Administrative Region (HKSAR) has adopted. Under the EELS, some common types of household appliances/ gas appliances and office equipment will incorporate an energy label that serves to inform consumers of the product's energy consumption and efficiency. Consumers should then be able to take those factors into account in making their purchasing decision.
- 2.2 The concept of EELS has been implemented in several forms and in different stages of development in many countries. The EELS generally aims to achieve:
- greater public awareness of energy conservation and environmental improvement needs;
 - provision of readily available, pre-purchase information on energy consumption and efficiency data to enable ordinary consumers to select more energy efficient products;
 - stimulation to the manufactures/market for phasing out less energy efficient models; and
 - motivation of the actual energy savings behaviours and environmental improvements.
- 2.3 Hong Kong aims at achieving the above objectives. At present, the Hong Kong Voluntary Energy Efficiency Labelling Scheme covers 22 types of household appliances/ gas appliances and office equipment. Amongst them, 13 types are household appliances, 7 types are office equipment and 2 types are gas appliances.

3. Scope

- 3.1 The Scheme will only apply to the manufacturers and importers (i.e. local agents, retailers and the related parties) of Electric Clothes Dryers who are interested to or have participated in the Scheme.
- 3.2 The Scheme commenced on 28 December 1999. It is further revised on 1 January 2020. The existing and newly registered labels will remain valid till 31 December 2021. By then, renew of the application may be required subject to the review of the Scheme.
- 3.3 This labelling scheme apply to electrically operated Clothes Dryers that have drying capacity normally not exceeding **10 kg** for household use. Appliances that have larger capacity, or for industrial use, or those using non-electric energy sources are excluded.
- 3.4 This labelling scheme does not apply to clothes dryers of cabinet type in which the heated air is blown to dry the hanged clothes and is exhausted through an outlet channel.
- 3.5 The scope of the Scheme covers all new registered Electric Clothes Dryers imported to be sold or manufactured in Hong Kong with effect from the date that is declared by the participant but does not cover the second-hand products, products already in use, under trans-shipment or manufactured for export, etc.
- 3.6 The Scheme is operated as a ‘Grading Type’ labelling system. All participating Electric Clothes Dryers will be registered under this Scheme provided that they have met the testing and performance requirements as stipulated in the Scheme.

4. Definitions

Unless otherwise specified, the following definitions shall apply throughout this document:

- Authority means the Electrical & Mechanical Services Department (EMSD), the Government of the HKSAR
- clothes dryers means household electric clothes dryers described under Section 3 (Scope) of this scheme in which textiles

	are dried by tumbling in a rotating drum, through which air is passed.
cotton test load	shall consist of sheets, pillowcases and towels conforming to the IEC 61121:2012 .
Director	means the Director of Electrical & Mechanical Services Department.
Government	means the Government of the HKSAR.
IEC	means International Electrotechnical Commission.
inspecting officer	means the officer authorized by the Director to carry out inspection on Electric Clothes Dryers.
label	means the energy label as described in section 7 of this document.
Air-vented dryers	means the clothes dryers that draws in fresh air which is passed over the textiles and where the resulting moist air is exhausted into the room or vented outside.
Condenser dryers	means the clothes dryers which includes a device for removing moisture from the air used for the drying process.
cycle	means complete drying process, as defined by the programme selected, consisting of a series of different operations (heat, cool down etc.).
mains electricity	means the electricity that is supplied in Hong Kong at a voltage of 380/220 V and a frequency of 50 Hz
participant	means the manufacturers, importers or the retailers of Electric Clothes Dryers participating in the Scheme.
rated frequency	means the frequency marked on the nameplate declared by the participant.
rated voltage(s)	means the voltage(s) shown on the nameplate of the equipment.
rated capacity	means the maximum mass of dry textile material, in kilogrammes, which the manufacturer declares can be treated in a specific drying operation.
drum volume	means the inside volume, in litres, of the drum in which the textile material is placed, after subtraction of ribs or other inward protrusions, etc.

Standard programme	means the cycle which dries cotton laundry (with an initial moisture content of the load of 60%) up to a remaining moisture content of the load of 0%
recognized laboratory	means a laboratory that complies with the requirements as stated in section 8 of this document and is acceptable to the Authority for carrying out tests and issuing test reports on Electric Clothes Dryers.
the / this Scheme	means the Hong Kong Energy Efficiency Labelling Scheme for Electric Clothes Dryers

5. Test Methodology and Technical Standard

General

- 5.1 All test standards specified in this document are related to the energy efficiency and general performance requirements. It is not the intention of this document to detail out the test standards and requirements for the Electrical Products (Safety) Regulation of the HKSAR. The participant should conduct appropriate tests, where necessary, in addition to those specified in this document in order to obtain Certificates of Safety Compliance for the appliances.
- 5.2 The clothes dryers are required to be tested at 220V to 240V a.c., 50 Hz with their rated capacity.
- 5.3 The testing standards for measurement of performance are based on the standard IEC 61121:2012, Tumble dryers for household use – Methods for measuring the performance. For detailed requirements and procedural descriptions one should refer to the respective standard.

Test Methods and Conditions

- 5.4 For the calculation of the energy consumption and other parameters for the clothes dryers, the cycle which dries cotton laundry (with an initial moisture content of the load of 60 %) up to a remaining moisture content of the load of 0 % (hereinafter the 'standard programme') shall be used.

Calculation of the Energy Efficiency Index

- 5.5 For the calculation of the energy efficiency index (EEI) of a Clothes Dryers model, the weighted annual energy consumption of the Clothes Dryers for the standard programme at full and partial load is compared to its standard annual energy consumption.

The energy efficiency index (EEI) is calculated as follows and rounded to one decimal place:

$$EEI = \frac{AE_c}{SAE_c} \times 100$$

where: AE_c = weighted annual energy consumption of the Clothes Dryers,
 SAE_c = standard annual energy consumption of the Clothes Dryers.

The standard annual energy consumption (SAEc) is calculated in kWh/year as follows and rounded to two decimal places.

for all Clothes Dryers that are not air-vented:

$$SAEc = 140 \times c^{0.8}$$

for air-vented Clothes Dryers:

$$SAEc = 140 \times c^{0.8} - \left(30 \times \frac{T_t}{60}\right)$$

where: c is the rated capacity of the Clothes Dryers for the standard programme,

T_t is the weighted programme time for the standard programme.

The weighted annual energy consumption (AEc) is calculated in kWh/year as follows and rounded to two decimal places.

$$AEc = E_t \times 160 + \frac{\left[P_o \times \frac{525\,600 - (T_t \times 160)}{2} + P_1 \times \frac{525\,600 - (T_t \times 160)}{2} \right]}{60 \times 1000}$$

where E_t = weighted energy consumption, in kWh

P_0 = power in 'off-mode' for the standard programme at full load

P_1 = power in 'left-on mode' for the standard programme at full load

T_t = weighted programme time, in minutes and rounded to the nearest minute,

160 = total number of drying cycles per year.

When the clothes dryer is equipped with a power management system, with the clothes dryer reverting automatically to 'off-mode' after the end of the programme, the weighted annual energy consumption (AEC) is calculated taking into consideration the effective duration of the 'left-on mode', according to the following formula:

$$AEC = E_t \times 160 + \frac{\{(P_1 \times T_t \times 160) + P_0 \times [525600 - (T_t \times 160) - (T_t \times 160)]\}}{60 \times 1000}$$

where

T_1 = duration of the 'left-on mode' for the standard programme at full load, in minutes and rounded and rounded to the nearest minute.

The weighted programme time (T_t) for the standard programme is calculated in minutes as follows and rounded to the nearest minute:

$$T_t = (3 \times T_{DRY} + 4 \times T_{DRY1/2}) / 7$$

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

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

The weighted energy consumption (E_t) is calculated in kWh as follows and rounded to two decimal places:

$$E_t = (3 \times E_{DRY} + 4 \times E_{DRY^{1/2}}) / 7$$

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

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

Calculation of the weighted condensation efficiency

5.6 The condensation efficiency of a programme is the ratio between the mass of moisture condensed and collected in the container of a condenser 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. For calculating the weighted condensation efficiency, the average condensation efficiency of the standard programme at both full and partial load is considered.

The weighted condensation efficiency (C_t) of a programme is calculated as a percentage and rounded to the nearest whole percent as:

$$C_t = (3 \times C_{DRY} + 4 \times C_{DRY^{1/2}}) / 7$$

where: C_{dry} = average condensation efficiency of the standard programme at full load,

$C_{dry^{1/2}}$ = average condensation efficiency of the standard programme at partial load.

The average condensation efficiency C is calculated from the condensation efficiencies of test runs and expressed as a percentage:

$$C = \frac{1}{(n-1)} + \sum_{j=2}^n \left(\frac{W_{wj}}{W_i - W_f} \times 100 \right)$$

where: n is the number of test runs, comprising at least four valid test runs for the selected programme,

j is the test run number,

W_{wj} is the mass of water collected in the condenser reservoir during test run j ,

W_i is the mass of the wet test load before drying,

W_f is the mass of the test load after drying.

6. Energy Efficiency Grading

- 6.1 The energy efficiency grade of Clothes Dryers shall be determined as shown in Table 6.1, with Grade 1 having the best performance and Grade 5 being the lowest class of performance in this scheme.

Table 6.1 - Classification of Energy Efficient Grades

Grading of Energy label	
Grade	Energy Efficiency Index
1	$EEI < 24$
2	$24 \leq EEI < 32$
3	$32 \leq EEI < 42$
4	$42 \leq EEI < 65$
5	$65 \leq EEI$

Safety Requirements

- 6.3 In addition to the performance requirements, all Clothes Dryers shall comply with the Electrical Products (Safety) Regulation, Chapter 406G of the Laws of Hong Kong, and the safety standards specified under the Regulation, and all other legislations concerning the safety of Clothes Dryers.

7. Energy Label

- 7.1 The specification of the energy label for Clothes Dryers is shown in Annex 1. After a reference number has been assigned to a product model in the name of a specified person and included in the Director's record, the specified person shall produce the energy label for his/her products of the listed model showing the information in strict accordance with the requirements in Annex 1.
- 7.2 The energy label is to be attached or affixed to a prominent position of the Clothes Dryers' and is to be clearly visible.
- 7.3 The energy label shall be self-adhesive and shall be cut to the outline shown in Annex 1 or otherwise approved by the Director.

- 7.4 The paper used for the energy label shall be durable with good wear and tear characteristics.
- 7.5 The energy label should be printed in both Chinese and English. Soft copy of the energy label can be obtained from Energy Efficiency Office, Electrical and Mechanical Services Department.

8. Testing Facilities, Laboratories & Accreditation Bodies

- 8.1 The testing shall be carried out either by independent test institutes or by the manufacturers or by the importers themselves at their own test facilities. The Authority will accept the results and certificates issued by the test laboratory, which fulfils one of the following criteria as specified in clauses 8.2, 8.3 or 8.4.
- 8.2 The laboratory is accredited to IEC 61121:2012 “Tumble dryers for household use – Methods for measuring the performance” and by the Hong Kong Accreditation Service (HKAS) for the relevant test under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) or a scheme for which HKAS has concluded a mutual recognition agreement (MRA)[#], and the results are issued in a test report or certificate bearing the accreditation mark.

HKAS has concluded mutual recognition arrangements with overseas accreditation bodies for testing laboratory accreditation. The list of mutual recognition arrangement partners may change from time to time and the up-to-date list is available from the HKAS website of www.info.gov.hk/itc/hkas. Partners to these arrangements recognise the accreditations granted by one another as equivalent.

- 8.3 The Authority will also consider the following –
- (a) Self-certification by original manufacturers that the operations of their in-house laboratories satisfy the requirements of ISO/IEC 17025; and
 - (b) The manufacturers are currently operating according to a recognized international quality system (such as ISO 9001); and
 - (c) The manufacturer’s in-house laboratories have been successful in carrying out the relevant tests in IEC 61121:2012 and where these tests have been evaluated and certified by recognized independent certification body.
- 8.4 The recognised independent certification organisation mentioned in clause 8.3(c) shall meet the following minimum requirements:

- (a) Being recognized internationally to be competent for certifying product energy efficiency performance tests; and
- (b) Having experience in assessing and certifying the relevant energy efficiency performance tests; and
- (c) Having well established assessment procedures, including staff training and assessment criteria, relating to assessment and certification of energy efficiency performance tests.

9. Registration and Participation

Registration Procedures

- 9.1 All manufacturers, importers and the other parties involved in the Clothes Dryers distribution network are welcome and encouraged to participate in the Scheme. The Authority will send invitation to those known manufacturers and importers. However, no matter whether invited or not, any interested parties may submit their applications for the registration.
- 9.2 The proforma letter of invitation is shown in Annex 2.
- 9.3 By means of an application letter through mail, facsimile or electronic mail; applicant should submit formal application to :

*Chief Engineer/Energy Efficiency A
Energy Efficiency Office
Electrical and Mechanical Services Department
3 Kai Shing Street, Kowloon, Hong Kong*

In order to ensure effective implementation of the Scheme, the applicant must commit himself to fully comply with the duties, responsibilities and obligations set out in the Scheme. The proforma letter of application as shown in Annex 3 details the aforesaid obligations and should be used for application. To facilitate the application process, the application form can be downloaded from EMSD website or via online application services.

Information/Documents to be Submitted for Registration

- 9.4 Each brand and model of Clothes Dryers participating in the Scheme should be provided with a test report issued by a recognized laboratory. The test report should contain energy efficiency tests and performance test results. The details of the technical information to be submitted together with the application are

listed as follows: -

- a) Information on the company
Name, Address, Telephone number, Fax number, E-mail address, Contact person, Importer, Distributor, etc.
- b) Product to apply for participating in the Scheme:
Name of the dryers, brand, model references, country of origin.
- c) The parties that will be responsible for making and fixing the Energy Labels;
- d) Commencement date to affix Energy Label on Clothes Dryers
Year_____, Month_____
- e) Detailed test reports and relevant photos shall provide at least the following relevant technical and measured data:
 - Brand Name (Both Chinese and English) and Model
 - Country of Origin
 - Type of Dryers
 - Annual Energy Consumption
 - Energy Efficiency Grade
 - Drying Capacity
 - Condensation Efficiency for Condenser Type Dryers
- f) Supporting Technical Information and Calculations:
 - Test reports -
 - Energy Consumption Test
 - Performance Test
 - Energy Efficiency Index
 - Energy Efficiency Grading
 - Product information catalogue
 - Information of driving motor
 - Information of the heater
- g) Certificate of Safety Compliance prescribed by the “Electrical Products (Safety) Regulation”, Chapter 406G of the Laws of Hong Kong.

- 9.5 Company's name and chop should be stamped on all the documents provided. All photocopy test reports submitted to the Authority shall be certified true copy by appropriate organization.

Acceptance of Registration

- 9.6 On receipt of the application, the Authority will process the application and verify whether the Clothes Dryer meets the energy efficiency and performance requirements based on the submitted data. The accuracy of the energy consumption data, their inconsistencies and non-compliance will be dealt with in accordance with section 11.
- 9.7 If the application is accepted, the participants will be notified of the result in writing within 17 working days upon receipt of all necessary information requested. The participants will then be allowed to affix the label onto the 'registered' Clothes Dryers. Both manufacturer and importer of the registered Clothes Dryers should ensure that the energy label is correctly printed and affixed on the Clothes Dryers in accordance with section 7. The proforma letter of acceptance is shown in Annex 5.
- 9.8 If the application is rejected, the notification letter (proforma letter of rejection as shown in Annex 6) will also be given within 17 working days upon receipt of all necessary information requested.
- 9.9 The flow chart for registration is shown in Annex 7.

Participant's Duties, Responsibilities and Obligations

- 9.10 The participant is obliged to:-
- a) submit application and information including test results in accordance with format & procedures set out in clauses 9.3, 9.4 & 9.5;
 - b) conduct tests via recognized laboratories and to comply with the specified test methodologies and technical standards in the Scheme;
 - c) provide correct information of the Brand, Model, Annual Energy Consumption, Energy Efficient Grade, Clothes Dryers Type, Drying Capacity and Condensation Efficiency of the Dryers in the Energy label and satisfy the requirement of the Format of the label listed in Annex 1;
 - d) produce and affix labels on product packaging at his own costs;
 - e) fully inform other sales agents in his distribution network once the

particular make and model of Clothes Dryers is registered under the Scheme;

- f) allow random/ad-hoc inspection to be conducted by persons authorized by the Authority on registered Clothes Dryers at his premises;
- g) conduct re-test(s) at his own costs at some recognized laboratories, if non-compliance is found on his registered Clothes Dryers. The result of re-test(s) shall reach the Authority within the prescribed period of time specified by the Authority;
- h) inform the Authority of any change in the technical information and data that were previously submitted to the Authority together with the application letter;
- i) accept the fact that if registered Clothes Dryers fails to perform in accordance with the required standard performance as given in sections 6 and this cannot be readily rectified, the Authority may order it be de-registered from the Scheme; and
- j) remove all labels from the de-registered Clothes Dryers immediately.

9.11 The details of the registered Clothes Dryers under the Scheme will be kept in a register list maintained by the Authority. The registration records will be regularly uploaded and maintained in the EMSD Internet for public and interested parties for browsing and reference.

Termination

9.12 Under circumstances of poor performance of the participant such as –

- (a) (repeated) failure to fulfil the obligations set out under clause 9.10; or
- (b) in any other case where the Director is of the opinion that registration of the particular Clothes Dryers is contrary to the public interest,

the Authority may de-register the concerned Clothes Dryers from the Scheme with immediate effect by giving the participant a notice in writing. Once the Clothes Dryers is de-registered, energy label is not allowed to fix on it. However, participant will normally be given a grace period of three months to remove all labels from the de-registered Clothes Dryers.

The concerned Clothes Dryers could be de-registered even when there is no legal action taken under either the Trade Description Ordinance (Chapter 362) or the Copyright Ordinance (Chapter 528).

- 9.13 Participant who decides to discontinue participating in the Scheme or to withdraw any registered model from the registered Clothes Dryers list shall give at least three months' advance notice to the Authority.

10. Legal Provisions

- 10.1 The Scheme is a voluntary scheme. However, a participant who abuses the Scheme by giving false information on an energy label may contravene provisions of the Trade Description Ordinance (Chapter 362).
- 10.2 No one could take advantage of the Scheme by using the energy label on his Clothes Dryers without authorization of the Authority as that shall constitute an infringement of copyright under the Copyright Ordinance (Chapter 528).

11. Compliance, Monitoring and Inspection

Purpose

- 11.1 To uphold the credibility of the Scheme and to continue maintaining the confidence of the consumers, compliance check on energy labels on those Clothes Dryers participating in the Scheme are needed. Also, to avoid the non-participating parties from taking advantage of the Scheme by using unauthorized labels, suitable form of inspection shall be conducted on those Clothes Dryers which have not been registered under the Scheme.

Scope

- 11.2 The scope of inspection includes sample **checking** and **testing** of the following items:-
- (a) whether the energy label is affixed on the registered Clothes Dryers;
 - (b) whether the energy label on the registered Clothes Dryers is affixed to a prominent position in accordance with clause 7.2;
 - (c) whether the energy label being displayed is of correct format in accordance with section 7;
 - (d) whether the registered Clothes Dryers complies with the energy efficiency and the performance requirements;
 - (e) whether the data submitted by the participants are correct by random re-testing; and

- (f) whether the unregistered Clothes Dryers display unauthorized energy labels.
- 11.3 The participants will be requested to take immediate remedial action and report of follow-up action taken if non-compliance is found on their Clothes Dryers.
- 11.4 For a registered Clothes Dryers which is found with non-compliance to the energy efficiency and performance requirements stated in section 6 during random checking, the Authority may request the participant to conduct a separate energy efficiency and performance test at his own cost, in accordance with the test methodology as stated in section 5, in one of the testing laboratories agreed by the Authority.
- 11.5 If non-compliance is confirmed in the repeat performance tests initial, interim or final test results, and no remedial action is to be taken by the applicant, the Authority may order it be de-registered from the scheme. Failure to remove energy labels from the de-registered appliances after the Director has withheld his authorization for using such labels may contravene the relevant Ordinances.

Inspecting Officers

- 11.6 The Authority will authorize inspecting officers to carry out compliance monitoring and inspection on Clothes Dryers. The officers will carry proper identification cards which will be produced upon request during their inspection operations. However, the officer will not inform the participants in advance of their intended inspection operation.
- 11.7 It is the participants' obligation to allow the inspecting officers to gain access to their premises to carry out inspection.

Mode of Inspection

- 11.8 Inspections will be carried out on registered Clothes Dryers under the Scheme on random basis. Based on the record of the registration, random inspection programmes will be developed.
- 11.9 In addition to the random inspections, the inspecting officers will carry out ad-hoc inspections in response to complaints. The items to be inspected in such a case will depend upon the nature of complaint and may include all types of inspection as stated in clause 11.2.

- 11.10 Inspections will normally be carried at the Clothes Dryers retail outlets and showrooms. Where necessary, inspection will also be done at warehouses.
- 11.11 The inspection results will be properly recorded for future analysis as well as on evaluation of the effectiveness of the Scheme.

12. Complaints and Appeal

- 12.1 The Authority will be responsible for dealing with the complaints from participant and other parties against matters related to the Scheme.

Complaints Handling Procedures

- 12.2 The Director shall ensure that complaints are properly recorded and handled without undue delay.
- 12.3 The Authority shall carry out preliminary investigation on complaints and reply to the complainants within a reasonable time. For complaints that require site inspection and laboratory test, the complainant shall be notified through an interim reply.
- 12.4 The Authority shall inform the complainant of the results or decisions made on the complaint.

Appeal Procedures

- 12.5 A participant who feels aggrieved by the decision or action given by the Authority according to section 9 may appeal to the Director in writing stating the reason for the appeal.
- 12.6 The Director may decide to suspend the decision or action given by the Authority from the day on which the appeal is made until such appeal is disposed of, withdrawn or abandoned unless such suspension would, in the opinion of the Director, be contrary to public interest.
- 12.7 The Director may by notice to the appellant require that appellant to attend meeting with him or his representative, provide documents and give evidence relevant to the appeal.
- 12.8 The Director shall notify the appellant of his decision and the reasons for it. The

decision will be final and binding.

13. Maintenance of Scheme

13.1 To ensure that the Scheme can continue to operate effectively and efficiently after its introduction, a proper system of maintenance is needed.

13.2 The maintenance system consists essentially of -

(a) Continuous updating of the following relevant information of the participants in the Scheme -

i. Details of the registered Clothes Dryers such as registration number, date of registration or de-registration if it occurs, energy consumption data, energy factor, performance data, make, model, category and other related information; and

ii. Details of the registered importers, manufacturers, local agents, etc.; in the distribution network such as address, date of registration or de-registration if it incurs, etc.

(b) Periodic review of the test methodology, and procedures for application of registration and compliance monitoring, etc., to bring them in line with the latest needs of the manufacturers, importers and retailers, etc.

(c) Continuous evaluation of the effectiveness of the Scheme and assessment of what changes are necessary.

14. Future Development


14.1 It is hoped that following the implementation of the Scheme, the market will introduce models of high efficiency appliances and public awareness of using energy efficient products will be much improved.

14.2 To further facilitate the public in choosing energy efficient appliances and raise public awareness on energy saving, the Government has introduced a mandatory Energy Efficiency Labelling Scheme (EELS) through the Energy Efficiency (Labelling of Products) Ordinance.

14.3 Under the mandatory EELS, energy labels are required to be shown on prescribed products for supply in Hong Kong to inform consumers of their energy efficiency performance. Eight types of prescribed products covered in the mandatory EELS are room air conditioners, refrigerating appliances, compact fluorescent lamps, washing machines, dehumidifiers, televisions, storage type electric water heaters and induction cookers.

The Hong Kong Voluntary Energy Efficiency Labelling Scheme for Electric Clothes Dryers

Energy Label Format

ENERGY LABEL 能源標籤	
Brand 牌子	ABC 某某牌
Model 型號	HK1234
Annual Energy Consumption* kWh/yr 每年耗電量 每年點小時	184
<small>Actual consumption depends on where the appliance is located and how it is used. Based on 160 drying cycles per year. 其耗電量視乎乾衣機的安裝地點及使用方式。現假設每年乾衣160次。</small>	
Energy Efficiency Grade* 能源效益級別	1
<small>Among the five grades, Grade 1 is the most energy efficient. 在五級別中，第一級最為省電。</small>	
Clothes Dryer Type 乾衣機類型	Condenser 冷凝式
Drying Capacity (kg) 乾衣量 (公斤)	7
Condensation Efficiency (%) 冷凝效率 (%)	90
EEL Registration Number 能源標籤登記號碼	D 18-0001
<small>* The data are provided according to the Hong Kong Energy Efficiency Labelling Scheme for Electric Clothes Dryers administered by the Electrical and Mechanical Services Department (EMSD), Government of the Hong Kong Special Administrative Region. The registration record can be found at the EMSD website at www.emsd.gov.hk. 資料根據香港特別行政區政府機電工程署推行的香港電乾衣機能源效益標籤計劃的規定列出。有關註冊記錄可查閱網址 www.emsd.gov.hk。</small>	
	

90mm

140mm

Not to Scale

Note : The figure of the energy label is shown not to scale.

Soft copy of this label can be obtained from Energy Efficiency Office, Electrical and Mechanical Services Department.

Proforma Letter of Invitation

Our ref. () EMSD/EEO/LB/35

Your ref.

Tel.

Fax.

Date

[Name and Address of
Manufacturers/Importers/Agents]

Dear Sir/Madam,

Invitation of Application for Registration in The Hong Kong Voluntary Energy Efficiency Labelling Scheme for Electric Clothes Dryers

Having gone through the necessary consultations and duly considered the views from various concerned parties, the government has decided to introduce a voluntary energy efficiency labelling scheme for Electric Clothes Dryers to Hong Kong with effect from (_____). The details of the Scheme^① have been finalized and I enclose herewith a guide of the Scheme for your reference.

Being one of the major Electric Clothes Dryers manufacturers / importers / agents^② in Hong Kong, you are invited to participate in the Scheme so as to take part in promoting public awareness in energy conservation and environmental improvement to Hong Kong. If you are interested to participate in the scheme, please apply in accordance with the proforma letter of application (Annex 3) and submit details including technical information in accordance with the attached Annex 4 to the 'Chief Engineer / Energy Efficiency A' at the following address.

Energy Efficiency Office
Electrical and Mechanical Services Department
3 Kai Shing Street, Kowloon

Please be reminded to submit accurate test data to support your application. Under this Scheme, routine compliance monitoring and checking will be performed and if a registered Electric Clothes Dryer is found to be non-compliant, we may consider deregistering the Electric Clothes Dryer from the Scheme.

Should you need further clarification or information, you are most welcome to contact the undersigned or Mr _____, at the telephone number _____.

Yours faithfully,

for Director of Electrical & Mechanical Services

- (Note : ^① 'The Scheme' means 'The Hong Kong Voluntary Energy Efficiency Labelling Scheme for Electric Clothes Dryers '
^② delete as appropriate)

Proforma Letter of Application

Your ref. () EMSD/EEO/LB/35
Our ref.

Tel.

Fax.

Date

Chief Engineer/Energy Efficiency A
Electrical & Mechanical Services Department
3 Kai Shing Street, Kowloon
Hong Kong

Dear Sir/Madam,

Application for Registration to Participate in The Hong Kong Voluntary Energy Efficiency Labelling Scheme for Electric Clothes Dryers

Our company is the (manufacturer/importer/agent*) of _____ in Hong Kong. We support the introduction the labelling scheme to Hong Kong and would like to be one of the participants in the Scheme to promote energy efficiency.

I understand fully the obligations and duties stated in the Scheme and will comply with all relevant requirements, in particular those specified below:

- i) conduct tests via recognized laboratories and to comply with the specified test standards;
- ii) produce and affix specified labels at my own costs;
- iii) allow random/ad-hoc inspection to be conducted by persons authorized by the issuing Authority on registered Electric Clothes Dryer(s) at my premises;
- iv) conduct re-test(s) at my own costs at some recognized laboratories, if the results of inspection suggest inaccurate energy label information being displayed. The result of re-test(s) shall reach the Authority within the prescribed period time specified by the Authority;
- v) inform the Authority of any change in the technical information and data that were previously submitted to the Authority together with the application letter; and
- vi) accept the fact that if the Electric Clothes Dryer(s) fail(s) to perform in accordance with the requirements of energy efficiency and performance as given in section 6 and this cannot be readily rectified, the Authority may order it (they) be de-registered from the Scheme.

The details of information of the Electric Clothes Dryer(s) which we intend to register with the Authority are shown in the attached document (Annex 4), and are submitted herewith for your vetting.

Yours faithfully,

(Manufacturer/Importer/Agent's Name and Company Chop)

* *delete as appropriate*

Information to be submitted to Energy Efficiency Office

1. Information on the Company :
Name, Address, Telephone number, Fax number, Email address, Contact person, Importer, Distributor, etc.
2. Product to apply for participating in the Scheme :
Name of products, type, make, model references, countries of origin
3. The parties that will be responsible for making and fixing the Energy Label.
4. Commencement date to affix Energy Labels on Clothes Dryers package
Year _____, Month _____
5. Completed "Product Technical Information Sheet"
6. Supporting Technical Information and Calculations:
 Test reports: - Energy Consumption Test
 Performance Tests
 Calculations: - Specific energy consumption
 Drying capacity, if by calculation
 Energy efficiency index
 Energy efficiency grading
 Product information catalogue
 Information of driving motor and heater
 Others
7. Certificate of Safety Compliance prescribed by the "Electrical Products (Safety) Regulation", Chapter 406G of the Laws of Hong Kong and safety requirement as stipulated at clause 6.4 of the Scheme document.

*Note: Company's name and chop should be stamped on the all documents provided.
All test reports submitted to the office should be certified true copy by appropriate organization.*

Proforma Letter of Acceptance

Your ref.

Our ref. () EMSD/EEO/LB/35

Tel:

Fax:

Date

┌ Name and Address of the
Manufacturers/Importers/Agents

└

Dear Sir/Madam,

**Acceptance of Application for Registration in
The Hong Kong Voluntary Energy Efficiency Labelling Scheme for
Electric Clothes Dryers**

With reference to your letter of ref. _____ dated _____, we are pleased to inform you that your application to participate in the captioned scheme has been accepted.

We enclose herewith the registration certificate(s) of Electric Clothes Dryer(s) registered. The registered Electric Clothes Dryer(s) is/are as follows:

<u>Brand/Make/Model</u>	<u>Registration No.</u>	<u>Effective date</u>
(_____)	(_____)	(_____)

You are allowed to affix a specified energy label onto each and every Electric Clothes Dryers registered under the Scheme. The contents of the energy label should be based on the information that you have provided in your application ref. _____ and dated _____.

Should you have any queries regarding the Scheme, please contact this office.

Yours faithfully,

for Director of Electrical & Mechanical Services

Proforma Letter of Rejection

Our ref. () EMSD/EEO/LB/35

Your ref.Tel.

Fax.

Date

「
Name and Address of
Manufacturers/Importers/Agents
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Dear Sir/Madam,

Rejection of Application for Registration in The Hong Kong Voluntary Energy Efficiency Labelling Scheme for Electric Clothes Dryers

With reference to your letter ref. _____ dated _____, we regret to inform you that your application for registration to participate in the Scheme has not been accepted for the following reasons:-

1. _____,
2. _____, etc.

You are most welcome to submit new application again in future, when you have the necessary documents / information to support your application.

Yours faithfully,

for Director of Electrical & Mechanical Services

The Hong Kong Voluntary Energy Efficiency Labelling Scheme
for Electric Clothes Dryers
Flow Chart of Registration

