

MINISTRY OF ENVIRONMENT, CLIMATE CHANGE AND TECHNOLOGY

Male' Republic of Maldives

Energy Efficiency Labelling Program of the Maldives

September 2021

Energy Efficiency Section Energy Department hakathari@environment.gov.mv

Contents

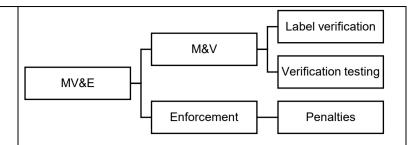
Energy Efficiency Labelling Program	
Schedule 1 – List of appliances	9
Schedule 2 – Terms and definitions	
Schedule 3 – Label inspection forms and reports	
Inspection plan template	
Location visit template	13
Template for authorizing inspection officers	14
Inspection report template	15
Form 1 (Applicant registration)	16
Schedule 5 – Air conditioner	17
Scope	
Test guidelines	17
Test report requirement	17
Product certification (safety requirements)	17
Minimum qualification requirements	18
Energy Efficiency Label	18
Schedule 5A – Forms and letters for labelling of air conditioner	2
Cover letter	2
Form 2 (Product registration AC)	24
Form 3 (Test report format AC)	20
Schedule 6 – Refrigerator	2
Scope	28
Reference technical standard	28
Test guidelines	28
Test report requirement	20
Product certification (safety requirements)	20
Minimum qualification requirements	29
Energy Efficiency Label	
Schedule 6A – Forms and letters for labelling of refrigerators	3
Cover letter	3!
Form 2 (Product registration REF)	30
Form 3 (Test report format REF)	
Schedule 7 – Washing machine	4
Scope	4
Reference test standard	4:
Test guidelines	4
Test report requirement	4
Product certification (safety requirements)	42
Minimum qualification requirements	4
Energy Efficiency Label	4
Schedule 7A – Forms and letters for labelling of washing machine	4
Cover letter	4
Form 2 (Product registration WM)	4
Form 2 (Tost report format WM)	<u> </u>

Energy Efficiency Labelling Program

1.	Introduction	the Governme promote use of requirements is labels which we energy saving. The energy effort of stars mean labelled produce.	nt of Maldives is into of energy efficient a for importers and r vill provide a simple potential of the prod iciency label is base more energy savi	roducing the enappliances and manufacturers of and clear indicated at the point and on a 5-star raings. The energy performations	ating system, where greater number gy efficiency labels are affixed to ance and provide consumers the
2.	Purpose	1. To he house 2. To en technotransfo 3. To recommend the second the secon	hold electricity bills. courage importers blogies and products brmation.	and manufact s in the Maldivia as emissions a	noices and save money on their urers to promote energy efficient an market, bringing about a market and progress towards achieving a sture.
3.	Program timeline	Voluntary Phase for selected appliances Total Duration: 2 years 2 months	Main actions Launch of voluntary program Evaluation of the voluntary program Gazette revised voluntary program.	Time	Details Public announcement by MECCT for importers to register models under the EE labelling program. Registration will be open for entire duration of the voluntary phase. MECCT to set up registration, monitoring mechanism and help desk for the program. Evaluate the program based on the feedback from importers, public and relevant agencies such as MCS and revise the program accordingly. Gazette revisions made to the program based on feedback from relevant agencies.

		Mandatory III phase of	Announcement of mandatory abelling orogram regulation). mplementation of mandatory abelling.	November 2023 February 2024	Gazette energy efficiency regulation with list of appliances for which mandatory labelling is required. Implementation of mandatory labelling of appliances listed under Schedule 1.
4.	Implementation agency of the program	The program will	be implemented	by the MECCT.	
5.	Conditions to participate in the program	 Participation in the Energy Efficiency Labelling program is voluntary for the appliances mentioned in Schedule 1 until and unless notified otherwise by MECCT. Importers participating in the program must fully comply with all the aspects of the program. Importers participating in the program should get approval for energy efficiency label before the appliance is imported to the Maldives. Importers shall be required to ensure that the label as per the exact specifications is placed on the appliance and outer packaging of the appliance before the appliance is imported to Maldives. 			
6.	Program participation process		ats with signature reder to participate and related temponment.gov.mv/vall be required to The applicant and provide Form in Schueren Them In S	e and stamp of in the program. plates are availance. y2/en/ submit the followed the shall first region details of the conedule 4. Once	wing: ister its organization with MECCT oncerned contact person using the the applicant is registered with I be allowed to register its products
		b. Step 2 – Product Registration (Form-2)	The applican label with the	t shall register the details as spec	ne product models for the energy

	1	1		
			Air conditioner – Schedule 5A	
			2. Refrigerator – Schedule 6A	
			Washing machine – Schedule 7A	
		c. Step 3 – Test result of product (Form-3)	The applicants would be required to submit information in test reports issued by accredited laboratories in the format specified in Form 3. Any deviation from the specified format is not allowed. The applicant shall be required to submit a copy of the test report issued by accredited laboratories for each model of appliance. Forms are provided in respective schedule of the appliances 1. Air conditioner – Schedule 5A	
			Refrigerator – Schedule 6A Washing machine – Schedule 7A	
		d. Cover letter	A cover letter shall be attached to the application forms. The template for the forms and cover letter to be used by the applicant for participation in the program are included in the respective Schedule as listed in Schedule 1 .	
7.	Energy efficiency label	The state of the s	uirements of the energy efficiency label for the list of appliances respective Schedule as listed in <u>Schedule 1</u> .	
		All aspects of the energy efficiency label stated in this program should be followed and any deviation from it will result in non-compliance.		
8.	Affixation of the	The energy efficiend	cy label should be affixed as follows;	
	energy efficiency label		shall be affixed on the appliances and on the packaging of the before being imported into the country.	
			iagram of label placement is shown in the Energy Efficiency Label espective Schedule as listed in <u>Schedule 1</u> .	
9.	Label monitoring verification and enforcement (MV&E)	a. Components	The MV&E of the energy efficiency labelling program involves the following components;	



Label Verification: Label verification shall be conducted by MECCT or its authorized representative at marketplaces, warehouses, MCS and other places of import to check whether the contents of the label affixed on each appliance match those approved by MECCT and whether label are affixed as per the guidelines in the schedule of the appliance.

Verification Testing: Verification testing shall be conducted to check whether the performance of the appliance is as described by the label approved by MECCT. This involves sampling of labelled appliances and performing verification testing in independent accredited laboratories. The test results are then evaluated to judge the performance of appliance.

The mechanism for verification testing shall be as follows:

- For the purpose of verification, one labelled sample will be picked-up at random from the market and its performance testing shall be carried out in an accredited independent laboratory. The cost of testing and transportation for this test shall be borne by MECCT.
- 2. If the sample fails, MECCT will inform the importer / applicant about the failure. Then, ME will draw 2 more samples of the model from the market and conduct all the relevant tests as specified in the schedule of the appliance at an accredited laboratory. The cost of this second verification testing as well as that of its transportation shall be borne by the registered importer / applicant.
- Even if one of the samples fails in the second verification testing, MECCT shall consider it as a non-compliance and would direct appropriate measures against the concerned importer(s) / applicant(s). The MECCT shall levy appropriate penalties on the importer(s) / applicant(s) for the noncompliance(s) listed under Clause 11 Prohibitions and Offenses.

Roles and The roles and responsibilities of various stakeholders are b. responsibilitie described below. Stakeholder Role Major responsibilities Ministry of Development Program development Environment, of the program Develop the energy Climate and revision; efficiency labelling program Change and Main Revise the program Technology, implementing accordingly organization **Program implementation** Responsible for overseeing and executing the market surveillance activities Conduct regular label verification inspections in the marketplace Coordinate with labelling authorities from other countries/accredited laboratories for verification of test reports Conduct verification testing for the labelled appliances in the marketplace Maintain list of accredited laboratories for verification testing Coordinate with MCS to monitor and verify labelled appliances enter the Maldivian market 7. Oversee smooth implementation of the energy efficiency labelling program Maldives Regulatory 1. Work with **MECCT** Customs authority over appliances ensure that Services import of registered under the labelled (MCS) program enter the Maldivian appliances market with authorized label

The templates for reporting and forms for conducting label verification are attached in Schedule 3.

1.

Participants of

the labelling

scheme

Importers

inspection/

Conduct regular inspections of shipments to be imported

Support MECCT and MCS

market surveillance process

the

as per mandate

during

10.	Fees	The MECCT shall charge labelling fee from the applicant.				
		The fees to be paid by applicant for energy efficiency labelling of appliance is:				
		to be subm The same s	1. Model Registration fee/ Renewal Fee: It is a non-refundable one-time fee to be submitted for each model by the applicant at the time of registration. The same shall be submitted by the registered applicant for renewal of each model if there is a change in specifications or energy efficiency grade.			
		Air conditioner /Refrigerator/ Was machine	hing	Fee Type	MVR	Paid at
		Model Registration Renewal Fee	n Fee/	One-time fee	500 per model	MECCT
11.	Validity of Label	as deemed suitable The previous issued	e, and to d labels s	issue a renewal f hall become invali	he label after a certain for continuation/upgra id after the notification ed to apply for renewa	dation the label. of label renewal
12.	Prohibitions and Offenses	a. Offenses	The noi to pena		other defaults of the p	orogram will lead
				of non-compliand alized are listed as	ce activities for which s follows:	an offender can
			1.		appliance which is re s not display the label.	•
			2.	The label, display the requirements	ed on a model, is not of the program.	displayed as per
			3.	placed in such a consumers may the model) or not the program. This	yed on a model of a way that it is not dire not be able to see it was per the placement is includes cases in what the requirements of sible at the store.	ectly visible (i.e. while purchasing requirements of nich the model is
			4.	A model of an a registered the ME	appliance displays a ECCT.	label but is not
			5.	The label display has surpassed its	ved on a model of an s validity period.	appliance which
			6.		displayed on the label by MECCT (i.e. case	

		b. Penalty	 A model that has been prohibited for sale by MECCT is still being sold at the store. Willingly stopping inspection officers and/or personnel assigned by MECCT from carrying out their duties. Penalties shall be imposed by the MECCT directly or via Maldives Customs Service for non-compliance under the energy efficiency label program. In case the non-compliance has been established under the label monitoring and verification, the applicant of the respective product label shall be penalized with non-monetary penalties. The following are non-monetary penalties which could be commenced pertaining to non-compliance under the energy efficiency labelling program: The approval provided for affixing the energy efficiency label on the respective product/model shall be withdrawn.
			 The applicant of the label shall be informed to stop the sale of products of the respective appliance model with immediate effect until appropriate measures are undertaken. Information about the non-compliance with details of
			product model(s) and name of the manufacturer/ importer/ retailer shall be published in print, electronic and social media for the information of consumers.
			4. For any applicant, if there are events /occurrence of non-compliance more than 3 times in a financial year, then the respective applicant shall be barred from applying to energy labelling program for a certain period as may be prescribed by MECCT.
			Non-monetary penalties shall be applied for non- compliances from the launch of the program.
13.	Helpline		ut the program write or call to the following;
		Email: hakathari@e	environment.gov.mv
14.	Terms and definitions	The terms and defir	nition used in the program are mentioned in <u>Schedule 2</u> .

Schedule 1 - List of appliances

The list of appliances to be brought under the energy efficiency labelling program in Maldives are:

Sr. No.	Appliances	Coverage	Technical detail	Forms to be used by applicant
1.	Air conditioner	Single-phase single-split and unitary type air conditioners of both fixed speed and variable speed type up to rated capacities of 24226 BTU/hr (equivalent to 7.1 kW)	Attached in Schedule 5	Attached in Schedule 5A
2.	Refrigerator	Compression-type Direct-Cool (single-door) refrigerators and Compression-type Frost-Free (double-door, three-door and side-by-side) refrigerators with rated capacities of 100 – 650 litres	Attached in Schedule 6	Attached in Schedule 6A
3.	Washing Machine	Washing machines, including automatic and semi-automatic, with horizontal axis (front loaders or vertical axis (top loaders) with a capacity of up to 14 kg.	Attached in Schedule 7	Attached in Schedule 7A

Schedule 2 - Terms and definitions

The key terms that are used in the program have been listed and defined below.

- 1. Accredited Laboratory: A laboratory accredited by a recognized accrediting authority which are MRA signatories such as ILAC/APLAC to perform testing as per a certain test standard or protocol.
 - MRA stands for Mutual Recognition Arrangement.
 - To know more about ILAC MRA and its signatories visit: https://ilac.org/ilac-mra-and-signatories/
 - To know more about APLAC MRA and its signatories visit: https://www.apac-accreditation.org/membership/
- Appliance: Appliance means any equipment or appliance which consumes, generates, transmits or supplies energy and includes any device that consumes any form of energy and produces a desired work.
- 3. Customs: Refers to Maldives Customs Services (MCS).
- 4. Consumer: An end-user/ purchaser of appliances.
- 5. Energy Efficiency Label: Informative labels issued by the Ministry of Environment, Climate Change and Technology under energy efficiency labelling program which describe the product's energy performance and give consumers the data necessary to make informed purchases.
- 6. Minimum Energy Performance Standards (MEPS): The minimum level of energy efficiency which must be met by an appliance.
- 7. Fixed speed (non-inverter) air conditioner: Air conditioner that employs technologies that control the output of the compressor by start-stop operation.
- 8. Inverter air conditioner: Air conditioner that employs technologies that vary the output of the compressor, by means other than start-stop operation.
- 9. Energy Efficiency Ratio (EER): Ratio of total cooling capacity to effective power input at any given rating condition. Its unit is kW/kW.
- 10. Cooling Seasonal Performance Factor (CSPF): Ratio of total amount of heat the equipment can remove from indoor air when operated for cooling in active mode to the total annual amount of energy consumed by the equipment during the same period. Its unit is Wh/Wh.
- 11. Cooling Seasonal Energy Consumption (CSEC): Total annual amount of energy consumed by the equipment when it is operated for cooling in active mode.
- 12. Standby mode: Lowest power consumption mode which cannot be switched off (influenced) by the user and that may persist for an indefinite time when an appliance is connected to the main electricity supply and used in accordance with the manufacturer's instructions
- 13. Standby power: Average power in standby mode when measured in accordance with the specified standard.

- 14. Refrigerating appliance is a factory-assembled insulated cabinet with one or more compartments and of suitable volume and equipment for household use, cooled by natural convection or a frost-free system whereby the cooling is obtained by one or more energy-consuming means.
- 15. Refrigerator is a refrigerating appliance intended for the preservation of food, one of whose compartments is suitable for the storage of fresh food.
- 16. Compression-type refrigerating appliance is a refrigerating appliance in which refrigeration is affected by means of a motor-driven compressor.
- 17. Absorption-type refrigerating appliance is a refrigerating appliance in which refrigeration is affected by an absorption process using heat as energy source.
- 18. Refrigerator-freezer is a refrigerating appliance having at least one compartment suitable for the storage of fresh food (the fresh-food storage compartment) and at least one other (the food freezer compartment) suitable for the freezing of fresh food and the storage of frozen food under three-star storage conditions.
- 19. Frost-free refrigerator-freezer is a refrigerator-freezer in which all compartments are automatically defrosted with automatic disposal of the defrosted water and at least one compartment is cooled by a frost-free system.
- 20. Direct cool refrigerator-freezer is a refrigerator-freezer in which all compartments are manually defrosted with manual disposal of the defrosted water.
- 21. Top Load washing machine: Washing machine in which the load is placed in a drum which rotates around an axis which is vertical or close to vertical.
- 22. Front Load washing machine: Washing machine in which the load is placed in a drum which rotates around an axis which is horizontal or close to horizontal.
- 23. Cleaning/Wash performance: It is the ratio of average reflectance measured on soiled test strips compared to the reference unit in at least 5 cycles from series.
- 24. Water Consumption of washing machine: It is the complete volume of water used during energy consumption test in average of 5 cycles.

Schedule 3 – Label inspection forms and reports

Inspection plan template

Faninanastiana				
For inspection y	•			
Inspection plan	approvai date :			
Inspection targe	et for the financial year			
Parameter		Value		
Number of gene	eral inspections			
Number of targe	eted inspections			
		1.		
List of target ap	pliances	2.		
Number of ware	house inspections	J.		
	ket place inspections			
	e of imports inspections			
Month	Locations to be visited		Estimated cost month (MVR)	for the
Total estimated	budget	:		
Name of Inspect	tion Officer			
Signature & Sea	ıl			

Location visit template

Date:	
Inspection Details	
Type of inspection:	General inspection/ Targeted inspection
Reason for conducting inspec	tion: -
Inspection location:	
Point of inspection:	Marketplace/ Warehouse/ Place of import
Inspection team: -	
Number of inspection	officers:
Name of inspection of	icers:
Date of inspection:	
Tentative time:	
	Yes/ No
Name and designation of offic	er preparing the plan:
Signature:	· · · · · · · · · · · · · · · · · · ·

Template for authorizing inspection officers

Date:	
Sub: Approval for inspection	
To whom it may concern,	
This is to certify that Mr./Mrs./Ms is hereby authorized to conduct inspection to check for compliance of equipment as per the energy efficiency labelling program a on the day of the month of, 20	
You are requested to kindly cooperate with the inspection process so that he/she may discharge their duties a inspection officers. Please note that willingly stopping them from carrying out their duties may result in noncompliance.	
Signature Name of Officer:	
Seal	

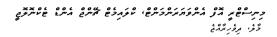
Date: Name of inspection officer **Date of inspection Inspection location** Name of store/warehouse Findings of inspection S. No. **Appliance** Manufacturer Model Inspection result Remarks Recommendation for further action

Inspection report template

Signature & seal

Schedule 4 – Applicant registration

Ministry of Environment, Climate Change and Technology Male', Republic of Maldives





FORM 1- APPLICANT REGISTRATION

A. DETAILS ABOUT THE ORGANIZA	ATION	
Name of the applicant organization:		
Business registration number:		
Importer registration number:		
Address:		
Atoll/Island:		
Postal Code:		
Phone Number:		
Email:		
B. DETAILS OF AUTHORIZED REPF	PESENITATIVE	
Name of the authorized representative:	LISENTATIVE	
Designation:		
Mobile no:		
Office landline no:		
Fmail:		
Email.	1	
I	hereby declare that we have read and unequivocally aciency Labelling Program and shall abide by the same.	cept the Terms and
Name:		Stamp
Designation:		
Date:		
Signature:		
* Submit Business registration certificate	with this form	

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+960 3018300

Makathari@environment.gov.mv

Schedule 5 - Air conditioner

Scope

The scope of the energy efficiency labelling program for air conditioners sold in Maldives is listed below.

Sr. No.	Scope includes
1.	Single-split and unitary type air conditioners
2.	Fixed speed and variable speed type
3.	Rated cooling capacities of up to 24226 BTU/hr (equivalent to 7.1 kW)

Reference technical standards

The technical standards to be used as normative reference for energy efficiency labelling program for air conditioners have been listed below:

- 1. ISO 5151:2010 Non-ducted air conditioners and heat pumps Testing and rating for performance
- 2. **ISO 16358-1** Temperature bin distribution shall follow Table 3 of Air-cooled air conditioners Testing and calculating methods for seasonal performance factors Part 1
- 3. IEC 62301:2011 Household electrical appliances Measurement of standby power

Test guidelines

The definition and guideline for the conducting measurement of parameters such as CSPF, EER and Standby mode power are mentioned in the points below.

- 1. Cooling Seasonal Performance Factor (CSPF): ratio of total amount of heat the equipment can remove from indoor air when operated for cooling in active mode to the total annual amount of energy consumed by the equipment during the same period. Its unit is Wh/Wh.
- 2. For fixed speed air conditioners, $CSPF = 1.062 \times EER_{tested}$ at 100% capacity. Energy Efficiency Ratio (EER) is defined as ratio of total cooling capacity to effective power input at any given rating condition. Its unit is kW/kW.
- 3. For inverter air conditioners, CSPF is calculated using the measured energy consumption during the tests.
- 4. Standby mode: Lowest power consumption mode which cannot be switched off (influenced) by the user and that may persist for an indefinite time when an appliance is connected to the main electricity supply and used in accordance with the manufacturer's instructions.
- 5. Standby power: Average power in standby mode when measured in accordance with the specified standard.

Test report requirement

The applicant must submit a copy of original test report for performance and safety requirements issued by an accredited laboratory. The information in the test report must be also submitted in the format shown in **Schedule 5A Form 3**. Any deviation from the specified format is not allowed.

Product certification (safety requirements)

The safety certification requirements for air conditioners imported into Maldives shall either be according to IEC 60335 or the safety standard followed in the country of origin.

Minimum qualification requirements

The minimum qualification requirement of the tested air conditioner in order to be eligible for the energy efficiency label are as per the following criteria:

- 1. Meet the requirements of lowest energy efficiency rating star (Star 2).
- 2. Refrigerant's ODP should be zero.
- 3. Pass all the tests applicable to the product as per safety certification requirements.

All the above requirements must be satisfied for the model to qualify for energy efficiency labelling program.

Energy Efficiency Label

Energy efficiency grading

The energy efficiency grade of an air conditioner model shall be determined on the basis of its Cooling Seasonal Performance Factor (CSPF). It is the ratio of total amount of heat the equipment can remove from indoor air when operated for cooling in active mode to the total annual amount of energy consumed by the equipment during the same period. Its unit is Wh/Wh. The table below shows the energy efficiency grading criteria for air conditioners.

Star Rating	For ACs with cooling capacities < 4.5 kW(< 15354 BTU/hr)	For ACs with cooling capacities ≥4.5 kW and ≤7.1 kW (≥ 15354 BTU/hr and ≤ 24226 BTU/hr)	
	Value of CSPF (Wh/Wh)	Value of CSPF (Wh/Wh)	
5	≥5.30	≥5.10	
4	4.60 ≤ CSPF < 5.30	4.00 ≤ CSPF < 5.10	
3	3.30 ≤ CSPF < 4.60	3.10 ≤ CSPF < 4.00	
2	3.10 ≤ CSPF < 3.30	2.90 ≤ CSPF < 3.10	
1	Not Applicable	Not Applicable	

Contents of the label

The following aspects are included in the EE label for Air Conditioners:

- Rating
- Value of CSPF (Wh/Wh)
- Test standards used
- Model specific detail
 - o Type
 - o Brand
 - o Model number
 - o Year of manufacture
- Cooling capacity (Btu/h)
- Refrigerant used

- Ozone Depletion Potential (ODP)
- Global Warming Potential (GWP)
- Annual energy consumption (kWh/year)
- Energy Saving compared to the lowest rated model
- Importer registration number
- Date of issue of label

Calculation method for Annual Energy consumption

Annual energy consumption = $\frac{CSEC (kWh)}{1817 \ hours} \times 4380 \ hours$

Where:

CSEC =Cooling Seasonal Energy Consumption (From Test Report as per ISO 16358)

*Operating hours per year =12 hours per day x 365 day =4380 hours

Calculation of Energy Saving compared to the lowest rated model

 $\textit{Percentage energy saving compared to the lowest rated } \textit{model} = 100\% - \left(100\% \times \frac{\text{CSPF}_{\text{Lowest star rating}}}{\text{CSPF}_{\text{Measured}}}\right)$

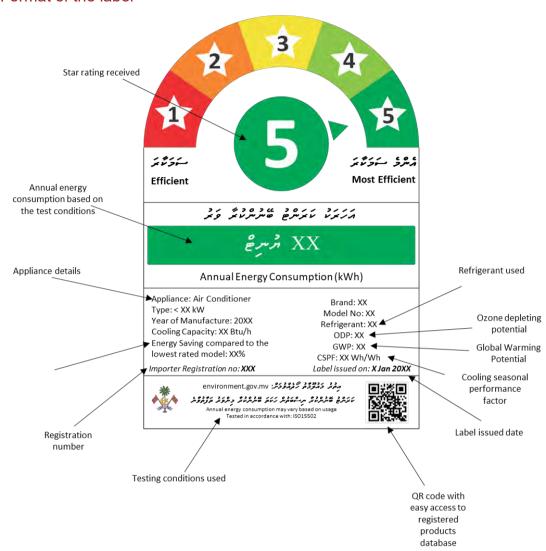
Where:

CSPF_{Lowest star rating} = 3.1 for rated cooling capacity <4.5kW

CSPF_{Lowest star rating} = 2.9 for rated cooling capacity 4.5kW to 7.1kW

 $CSPF_{Measured} = Obtained from test report$

Format of the label



Label variation for different grades

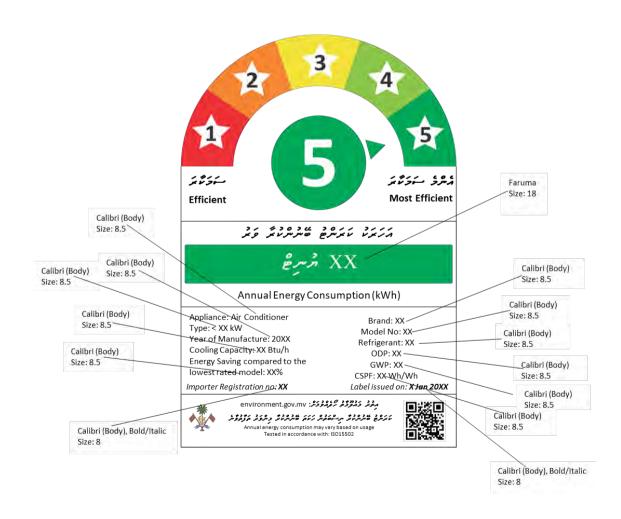


Size of the label

The dimension of the label shall be 13.5 cm length and 9 cm in width.

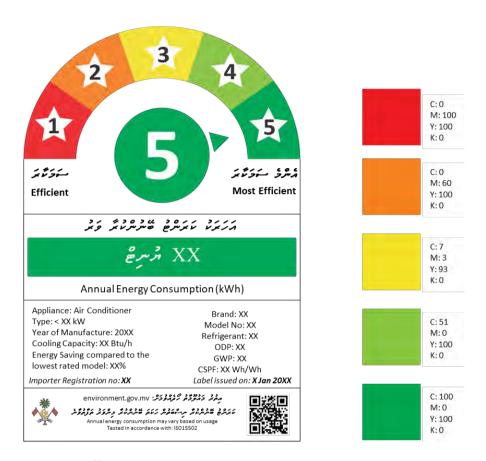


Font specification



Color specification

The label shall be printed according to the color specifications as follows:



Affixation of the energy efficiency label

The label shall be affixed on the appliance and on packaging of the appliance before being imported into the country.





Schedule 5A - Forms and letters for labelling of air conditioner

The forms and letters to be used for product registration of air conditioners are included here.

Cover letter

(Sample content of cover letter)

(To be prepared in the letterhead of the organization submitting the application (applicant))

(Single cover letter can be used for energy labeling of one or more appliance type i.e. AC, REF, W/M)

To: Energy Efficiency Section
Energy Department,
Ministry of Environment, Climate Change and Technology
Handhuvaree Hingun, Maafannu, 20392,
Male, Republic of Maldives

Date: [Insert date]

Subject: Application for seeking approval for energy efficiency label

Dear [insert recipient name],

This is with reference to the above subject and the program published by MECCT on energy efficiency labelling. I, on behalf of the M/s **[insert company name]**, is submitting this application for seeking permission from MECCT for energy efficiency label as per the criterion mentioned in the program.

Enclosures with this application: (List of forms attached and supporting documents attached)

Kindly evaluate the particulars attached with this application and confirm whether the appliances can be considered for EE labelling as per the program rolled out by MECCT.

Regards,

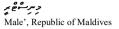
[Insert authorized representative name]
[Insert applicant title]
[Insert applicant organization name]
[Insert applicant address]

Form 2: Air Conditioner - Product registration



Ministry of Environment, Climate Change and Technology

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FORM 2- PRODUCT REGISTRATION AIR CONDITIONER

FOR MINISTRY USE ONLY					
FORM CHECKLIST					
Model	1	2	3		4
Form 3					
Test Report					
Cover Letter					
Application received by					Signature
Application No:					
Name:					
Designation:					
Date:					

C. DETAILS ABOUT THE ORGANIZATION	
Importer Registration Number:	
Name of the authorized Representative:	
Designation:	
Mobile no.:	
Office landline no.:	
Email:	

D. DETAILS ABOUT THE PRODUCT				
MODEL	1	2	3	4
Brand:				
Model no.:				
Information on Family of model:				

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Page 1 | 53



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MODEL	1	2	3	4
Product Type: Inverter AC Fixed speed AC				
Year of Manufacture:				
Cooling Capacity (kW):				
Cooling Capacity (Btu):				
CSPF (Wh/Wh):				
Name of Refrigerant:				
Refrigerant's ODP:				
Refrigerant's GWP:				
Safety Standard followed:				
Did the product pass all applicable safety tests? (Y/N)				

Version 1.0
Page 2 | 53 www.environment.gov.mv





Form 3 (Test report format AC)



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FORM 3 - DETAILS OF TEST RESULTS

A. DETAILS OF THE TEST RESULTS

Application No. (For Ministry use only):

- The sections below are to be filled by the applicant based upon the test reports issued by the accredited test laboratories.
- Test reports will only be accepted from accredited laboratories. An Accredited Laboratory is a laboratory accredited by a
 recognized accrediting authority which are Mutual Recognition Arrangement (MRA) signatories such as ILAC/APLAC to
 perform testing as per a certain test standard or protocol.
- For a list of accredited laboratories please visit Ministry of Environment, Climate Change and Technology website.
- Copy of the original test results should be submitted with this form for both performance and safety tests.
- For each model stated in Form 2, separate Form 3 should be filled and submitted.

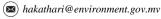
Details of the test laboratory, w	here the tests as specified by the test standards has been conducted
Name of the test laboratory:	
Address:	
City:	
Province:	
Postal Code:	
Phone Number:	
Fax:	
Email:	
Website:	
B. DETAILS OF AUTHORIZED F	REPRESENTATIVE OF TEST LABORATORY
Name of the Authorized Representative:	
Designation:	

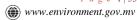
Version 1.0

Page 1 | 53



Phone no: Email:





The following test standard should be followed, and the following tests should be conducted.		
1. Test standards followed	ISO 5151:2010 and IEC 62301:2011 test procedure; ISO 16358-1:2013 for test conditions	
2. Tests to be conducted	 Cooling capacity at full load Cooling capacity at half load Input power at full load Input power at half load Standby mode power consumption 	
3. Safety test	IEC 60335 or the safety standard followed in the country of origin.	

C. INFORMATION ON PRODUCT SAMPLES AND TESTS CONDUCTED		
Test Report no:		
Date of receipt of sample by the lab:		
Date on which the tests are conducted:		
Product type (Tick the product type):	Inverter AC	
	Fixed Speed AC	
Brand:		
Model No.:		
Information of Family of Model:		
Dimensions:		

D. SUMMARY OF TEST RESULTS	
Serial no. of the sample tested:	
Cooling capacity at half load (kW):	
Input power at half load (kW):	
Cooling capacity at full load (kW):	
Input power at full load (kW):	
CSPF value (Wh/Wh):	
CSEC value (kWh) as per ISO 16358:	
Year of Manufacture:	
Safety Test Standard followed : (IEC 60335 or if any other, specify standard and country of origin)	
Did the product pass all applicable safety tests? (Y/N)	

Version 1.0

P a g e 2 | 53



Schedule 6 - Refrigerator

Scope

The scope of the energy efficiency labelling program for refrigerators sold in Maldives is listed below.

Sr.No.	Scope includes
1.	Compression-type refrigerators
2.	Direct-Cool (single-door) refrigerators
3.	Frost-Free (double-door, three-door and side-by-side) refrigerators
4.	Rated capacities of 100 – 650 litres

Reference technical standard

The technical standard to be used as normative reference for energy efficiency labelling program for refrigerators is listed below:

1. **ISO 15502:2005 or IEC 62552-1:2015** – Household refrigerating appliances – Characteristics and test methods - Part 1: General requirements

Test guidelines

The **energy consumption test** is the test for the energy consumption by the refrigeration appliance at an ISO tropical temperature of either 16°C or 32°C. Energy consumption is calculated as:

$$Ex = EI + (E2 - EI) X (tx - t1)/(t2 - t1)$$

t1 = measured compartment temperature for point 1

t2 = measured compartment temperature for point 2

tx = target temperature for the compartment for energy consumption determination

EI = measured energy consumption of the appliance at point 1

E2 = measured energy consumption of the appliance at point 2

Ex = calculated energy consumption of the appliance at the target temperature tx.

For the given conditions, $tx = 32 \,^{\circ}C$ and Ex = E32.

Calculation of V_{adi} – The adjusted volume of a refrigerator shall be calculated through the following formula:

 $Vadj = \Sigma(K_c*Actual volume of the compartment)$

K_c is the volume correction factor for a particular type of compartment and is defined as follows:

Compartment Type	Volume Correction Factor (K _c)
Fresh Food	1.00
4 star freezer	1.79
3 star freezer	1.79
2 star freezer	1.57
1 star freezer	1.36
Chill	1.13
Cellar	0.75

Test report requirement

The applicant must submit a copy of original test report for performance and safety requirements issued by an accredited laboratory. The information in the test report must be also submitted in the format shown in **Schedule 6A Form 3**. Any deviation from the specified format is not allowed.

Product certification (safety requirements)

The safety certification requirements for refrigerator imported into Maldives shall either be according to IEC 60335 or the safety standard followed in the country of origin.

Minimum qualification requirements

The minimum qualification requirements for the tested refrigerator in order to be eligible for the energy efficiency label are as per the following criteria:

1. The minimum annual energy consumption (kWh) of the tested refrigerator in order to be eligible for the energy label are as mentioned below:

Туре	Annual Energy Consumption (AEC) in kwh
1,700	MEPS level (lower limit of 2-star)
Without freezer	AEC > [(368 + 0.892 x Vadj tot) x 0.461]
With freezer (Vadj tot ≤ 300 liters)	AEC > [(465 + 1.378 x Vadj tot) x 0.427]
With freezer (Vadj tot > 300 and ≤ 900 liters)	AEC > [(465 + 1.378 x Vadj tot) x 0.427]
With freezer, through-the-door ice dispenser	AEC > [(585 + 1.378 x Vadj tot) x 0.409]

- 2. The refrigerant's ODP should also be zero in order to be eligible for energy efficiency label.
- 3. Pass all the tests applicable to the product as per safety certification requirements.

All the above requirements must be satisfied for the model to qualify for energy efficiency labelling program.

Energy Efficiency Label

Energy efficiency grading

The energy efficiency grade of a refrigerator model shall be determined on the basis of its Annual Energy Consumption (AEC) in kWh. The table shown below defines the energy efficiency labelling criteria for refrigerators.

Туре	Annual Energy Consumption (AEC) in kWh				
	Star 1	Star 2	Star 3	Star 4	Star 5
Without freezer	Not Applicable	[(368 + 0.892 x Vadj tot) x 0.551] ≥ AEC > [(368 + 0.892 x Vadj tot) x 0.461]	[(368 + 0.892 x Vadj tot) x 0.461] ≥ AEC > [(368 + 0.892 x Vadj tot) x 0.332]	[(368 + 0.892 x Vadj tot) x 0.332] ≥ AEC > [(368 + 0.892 x Vadj tot) x 0.239]	[(368 + 0.892 x Vadj tot) x 0.239] ≥ AEC
With freezer (Vadj tot ≤ 300 liters)	Not Applicable	[(465 + 1.378 x Vadj tot) x 0.553] ≥ AEC > [(465 + 1.378 x Vadj tot) x 0.427]	[(465 + 1.378 x Vadj tot) x 0.427] ≥ AEC > [(465 + 1.378 x Vadj tot) x 0.312]	[(465 + 1.378 x Vadj tot) x 0.312] ≥ AEC > [(465 + 1.378 x Vadj tot) x 0.228]	[(465 + 1.378 x Vadj tot) x 0.228] ≥ AEC
With freezer (Vadj tot > 300 and ≤ 900 liters)	Not Applicable	[(465 + 1.378 x Vadj tot) x 0.506] ≥ AEC > [(465 + 1.378 x Vadj tot) x 0.427]	[(465 + 1.378 x Vadj tot) x 0.427] ≥ AEC > [(465 + 1.378 x Vadj tot) x 0.312]	[(465 + 1.378 x Vadj tot) x 0.312] ≥ AEC > [(465 + 1.378 x Vadj tot) x 0.228]	[(465 + 1.378 x Vadj tot) x 0.228] ≥ AEC
With freezer, through-the- door ice dispenser	Not Applicable	[(585 + 1.378 x Vadj tot) x 0.485] ≥ AEC > [(585 + 1.378 x Vadj tot) x 0.409]	[(585 + 1.378 x Vadj tot) x 0.409] ≥ AEC > [(585 + 1.378 x Vadj tot) x 0.298]	[(585 + 1.378 x Vadj tot) x 0.298] ≥ AEC > [(585 + 1.378 x Vadj tot) x 0.218]	[(585 + 1.378 x Vadj tot) x 0.218] ≥ AEC

Contents of the label

The following aspects shall be included in the EE label for Refrigerator:

- Rating
- Annual Energy Consumption (AEC) in kwh
- Test standards used
- Appliance details
 - o Type
 - o Brand
 - Model number
 - Year of manufacture
- Total Gross Volume

- Total Storage Volume
- Refrigerant used
- Ozone depleting potential (ODP)
- Global Warming Potential (GWP)
- Energy Saving compared to the lowest rated model
- Importer registration number
- Date of issue of label

Calculation of Energy Savings compared to lowest rated model

Percentage energy saving compared to the lowest rated model= $100\% - \left(100\% \times \frac{{}^{AEC_{Measured}}}{{}^{AEC_{Lowest \, star \, rating}}}\right)$

Where:

AEC_{Measured} = Obtained from test report (kWh)

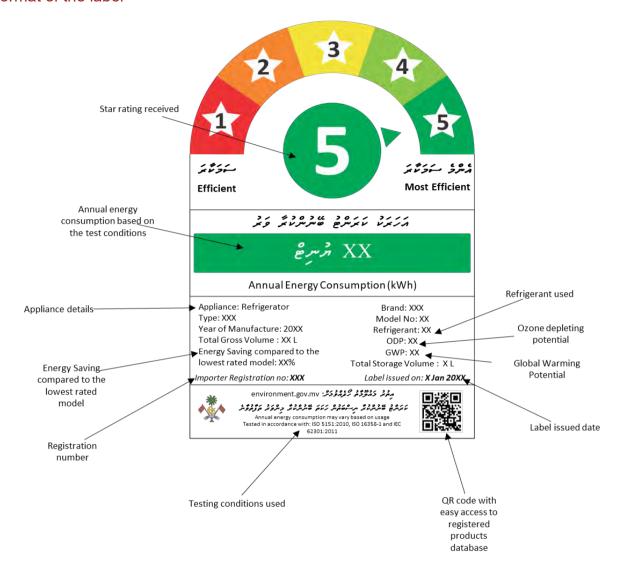
For without freezer, $AEC_{Lowest \, star \, rating} = [(368 + 0.892 \, x \, Vadj \, tot) \, x \, 0.461] \, kWh$

For with freezer (Vadj tot \leq 300 liters), AEC_{Lowest star rating} = [(465 + 1.378 x Vadj tot) x 0.427] kWh

For with freezer (Vadj tot > 300 and \leq 900 liters), AEC_{Lowest star rating} = [(465 + 1.378 x Vadj tot) x 0.427] kWh

For with freezer, through-the-door ice dispenser, $AEC_{Lowest \, star \, rating} = [(585 + 1.378 \, x \, Vadj \, tot) \, x \, 0.409] \, kWh$

Format of the label



Label variation for different grades.

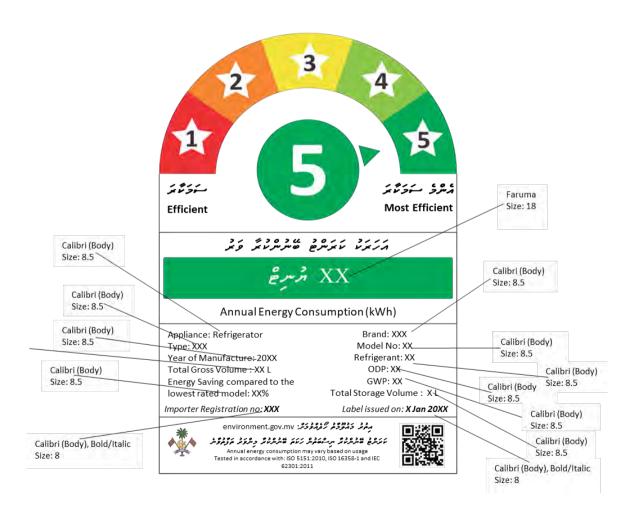


Size of the label

The size and dimension of the label shall be 13.5 cm length and 9 cm in width.

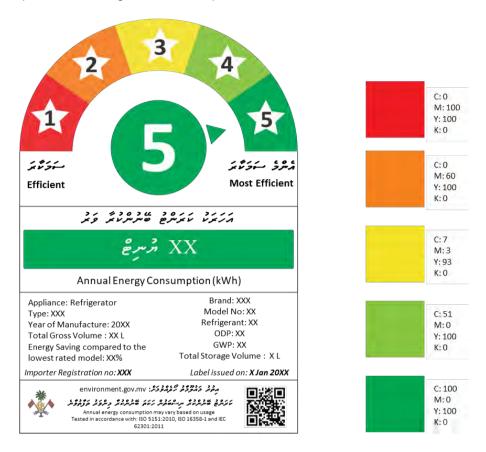


Font specification



Colour scheme

The label shall be printed according to the colour specifications as follows:



Affixation of the energy label

The label shall be affixed on the appliance and on packaging of the appliance before being imported into the country.





Schedule 6A – Forms and letters for labelling of refrigerators

The forms and letters to be used for product registration of refrigerator are included here.

Cover letter

(Sample content of cover letter)

(To be prepared in the letterhead of the organization submitting the application (applicant))

(Single cover letter can be used for energy labeling of one or more appliance type i.e. AC, REF, W/M)

To: Energy Efficiency Section
Energy Department,
Ministry of Environment, Climate Change and Technology
Handhuvaree Hingun, Maafannu, 20392,
Male, Republic of Maldives

Date: [Insert date]

Subject: Application for seeking approval for energy efficiency label

Dear [insert recipient name],

This is with reference to the above subject and the program published by MECCT on energy efficiency labelling. I, on behalf of the M/s **[insert company name]**, is submitting this application for seeking permission from MECCT for energy efficiency label as per the criterion mentioned in the program.

Enclosures with this application: (List of forms attached and supporting documents attached)

Kindly evaluate the particulars attached with this application and confirm whether the appliances can be considered for EE labelling as per the program rolled out by MECCT.

Regards,

[Insert authorized representative name]
[Insert applicant title]
[Insert applicant organization name]
[Insert applicant address]

Form 2: Refrigerator - Product registration





Ministry of Environment, Climate Change and Technology Male', Republic of Maldives



FORM 2- PRODUCT REGISTRATION REFRIGERATOR

FOR MINISTRY USE ONLY				
FORM CHECKLIST				
Model	1	2	3	4
Form 3				
Test Report				
Cover Letter	<u>. </u>			
Application received by Signature				Signature
Application No:				
Name:				
Designation:				
Date:				

A. DETAILS ABOUT THE ORGANIZATI	ON
Importer Registration Number:	
Name of the authorized Representative:	
Designation:	
Mobile no.:	
Office no.:	
Email:	

B. DETAILS ABOUT THE PRODUCT				
MODEL	1	2	3	4
Brand:				
Model no.:				
Information on Family of model:				

Version 1.0

Page 1 | 53

+960 3018300

(x) hakathari@environment.gov.mv



MODEL		1	2	3	4
Product Type: 1. Without free 2. With freezer Volume ≤ 30 3. With freezer Adjusted Vo 4. With freezer door ice disp	r, Adjusted pol r, 3001 < lume ≤ 900l r, through-the-				
Year of make:					
	Fresh food				
	1-star freezer				
Comportment	2-star freezer				
Compartment wise Volume (L)	3-star freezer				
Wise volume (L)	4-star freezer				
	Chill				
	Cellar				
Total adjusted sto (in L)	orage volume				
Annual Energy C (kWh/year):	onsumption				
Name of Refriger	rant:				
Refrigerant's OD	P:				
Refrigerant's GW	P:				
Safety Standard f	followed:				
Did the product papplicable safety	pass all tests? (Y/N)				

Form 3 (Test report format REF)



Ministry of Environment, Climate Change and Technology Male', Republic of Maldives

وسرڪھير 50 ڏيڙوکيزيٽروکي، مؤروع ميٽرھ ڏيو. ڪامتري ڏي وِفريٽرڻ



FORM 3 – DETAILS OF TEST RESULTS REFRIGERATOR

Application No. (For Ministry use only):

- The sections below are to be filled by the applicant based upon the test reports issued by the accredited test laboratories.
- Test reports will only be accepted from accredited laboratories. An Accredited Laboratory is a laboratory accredited by a recognized accrediting authority which are Mutual Recognition Arrangement (MRA) signatories such as ILAC/APLAC to perform testing as per a certain test standard or protocol.
- For a list of accredited laboratories please visit Ministry of Environment, Climate Change and Technology website.
- Copy of the original test results should be submitted with this form for both performance and safety tests.
- For each model stated in Form 2, separate Form 3 should be filled and submitted.

A. DETAILS OF THE TEST R	PESULTS
Details of the test laboratory, wh	ere the tests as specified by the test standards has been conducted
Name of the test laboratory:	
Address:	
City:	
Province:	
Postal Code:	
Phone Number:	
Fax:	
Email:	
Website:	

B. DETAILS OF AUTHORIZE	ED REPRESENTATIVE OF TEST LABORATORY
Name of the Authorized Representative:	
Designation:	
Phone no:	
Email:	

Version 1.0

Page 1 | 3



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The following test standard should be followed, and the following tests should be conducted.		
1. Test standards followed	ISO 15502 test procedure (or IEC 62552 edition 1)	
2. Tests to be conducted	Energy consumption test Pull down temperature test	
3. Safety test	IEC 60335 or the safety standard followed in the country of origin.	

B. INFORMATION ON PRODUCT SAME	PLES AND TESTS CONDUCTED	
Test Report no:		
Date of receipt of sample by the lab:		
Date on which the tests are conducted:		
Serial no. of the sample tested:		
Year of Manufacture:		
	Without freezer	
	With freezer, Adjusted Volume ≤ 300l	
Product type (Tick the product type):	With freezer, 300l < Adjusted Volume ≤ 900l	
	With freezer, through-the-door ice dispenser	
Brand:		
Model No.:		
Information of Family of Model:		
Dimensions:		

C. SUMMARY OF TEST RESULT				
Energy consumption test result:				
Parameter	Charification	Obser	Observation	
r ai ai lietei	Specification	Warm	Cold	
Average Temperature of freezer compartment (in °C)	Average Temperature of freezer compartment (in °C)			
Average temperature of fresh food compartment (in °C)				
Temperature of cellar compartment (in °C)				
Temperature of crisper compartment (in °C)				
Energy meter reading (Wh)				
Time elapsed (minutes)				
Energy consumption rate per day (Wh/day)				
Annual energy consumption (kWh/year)				

P a g e 2 | 3



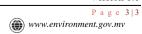
Pull down temperature test result:		
Parameters	Specification	Observation after 6 hours in °C (Celsius)
Average temperature of frozen food compartment (in °C)		
Average temperature of frozen food compartment (in °C)		
Temperature of chill compartment (in °C)		
Temperature of cellar compartment (in ∘C)		

The gross, storage and adjusted vol	ume test result				
Gross volume (in L)	Gross volume (in L)				
Freezer compartment	Fresh food compartment	Total			
Storage volume (in L)		·			
Freezer compartment	Fresh food compartment	Total			
Compartment Type	Volume Correction Factor (Kc)	Compartment-wise volume (L)			
Fresh Food	1.00				
4 star freezer	1.79				
3 star freezer	1.79				
2 star freezer	1.57				
1 star freezer	1.36				
Chill	1.13				
Cellar	0.75				

Total adjusted storage volume	
Total adjusted storage volume (in L)	
Safety test results	
Safety Test Standard followed (IEC 60335 or if any other, specify standard and country of origin)	
Did the product pass all applicable safety	







Schedule 7 - Washing machine

Scope

The scope of the energy efficiency labelling program for washing machines sold in Maldives is listed below.

Sr.No.	Scope includes
1.	Automatic and semi-automatic washing machines
2.	Horizontal axis (front loaders) and vertical axis (top loaders) washing machines
3.	Capacity of up to 14 kgs.

Reference test standard

The technical standards to be used as normative reference for energy efficiency labelling program for washing machine are listed below.

- For front loaders: IEC 60456:2010- Clothes washing machines for household use Methods for measuring the performance
- For top loaders: JIS 9606:1993 Electric Washing Machines (Japanese Industrial Standard).

Test guidelines

All terms and definitions for testing of washing machines are as described in IEC 60456 for front loaders and JIS 9606 for top loaders. The guidelines for the conducting test shall be as described in IEC 60456 for front loaders, JIS 9606 for top loaders. The test parameters measured in the testing of washing machines shall be wash performance, rinse performance, spin extraction performance, water consumption per cycle, energy consumption per cycle.

Test report requirement

The applicant must submit a copy of original test report for performance and safety requirements issued by an accredited laboratory. The information in the test report must be also submitted in the format shown in **Schedule 7A Form 3**. Any deviation from the specified format is not allowed.

Product certification (safety requirements)

The safety certification requirements for washing machine imported into Maldives shall either be according to IEC 60335 or the safety standard followed in the country of origin.

Minimum qualification requirements

The minimum qualification requirement for the tested washing machine in order to be eligible for the energy efficiency labelling are as per the following criteria:

- 1. Meet requirement of 1 Star for Electricity use (max) kWh per cycle per kg, Water use (max) L per cycle per kg and Cleaning Performance (min.)
- 2. Pass all the tests applicable to the product as per safety certification requirements.

All the above requirements must be satisfied for the model to qualify for energy efficiency labelling program.

Energy Efficiency Label

Energy efficiency grading

The energy efficiency grade of a washing machine model shall be determined based on three parameters:

- 1. Electricity use kWh per cycle per kg (maximum)
- 2. Water consumption (L) per cycle per kg (maximum)
- 3. Cleaning performance (minimum)

The energy efficiency rating awarded to the model shall be the minimum star level of the above three parameters.

The table shown below defines the energy efficiency levels based on the above parameters for both top load and front load washing machines.

	Top load (impeller type)			Front load (drum type)		
Rating	Electricity use (max) kWh per cycle per kg	Water use (max) L per cycle per kg	Cleaning performance (min)	Electricity use (max) kWh per cycle per kg	Water use (max) L per cycle per kg	Cleaning performance (min)
Star 5 (highest)	0.011	14	0.90	0.11	7	1.03
Star 4	0.012	16	0.80	0.13	8	1.03
Star 3	0.015	20	0.80	0.15	9	1.03
Star 2	0.017	24	0.80	0.17	10	1.03
Star 1 (lowest)	0.022	28	0.80	0.19	12	1.03

Contents of the label

The following aspects shall be included in the EE label for Washing machine:

- Rating
- Per Cycle Water Consumption (L)
- Per Cycle Electricity Consumption (kWh)
- Test standards used
- · Model specific detail
 - o Type
 - o Brand
 - o Model number
 - o Year of manufacture
- Capacity (Kg)
- Importer registration number
- Energy Saving compared to the lowest rated model
- Date of issue of label

Calculation of Energy Savings compared to lowest rated model

Percentage energy saving compared to the lowest rated model = $100\% - \left(100\% \times \frac{E_{Measured}}{E_{Lowest \; star \; rating}}\right)$

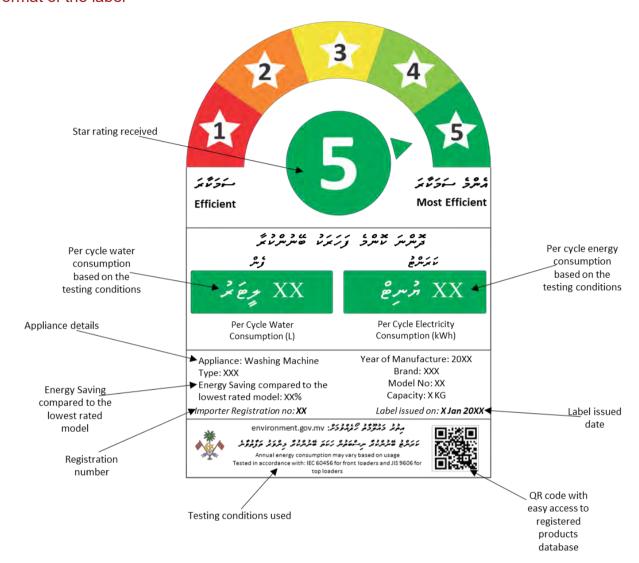
Where:

Electricity consumption per cycle per kg, $E_{Measured} = Obtained$ from test report (kWh)

For top load washing machine, $E_{Lowest \, star \, rating} = 0.017 \, kWh \, per \, cycle \, per \, kg$

For front load washing machine, $E_{Lowest\,star\,rating} = 0.17$ kWh per cycle per kg

Format of the label

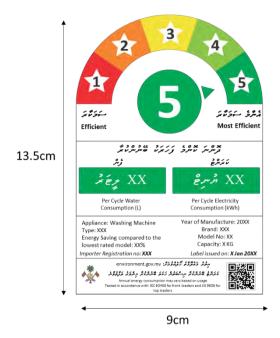


Label variation for different grades

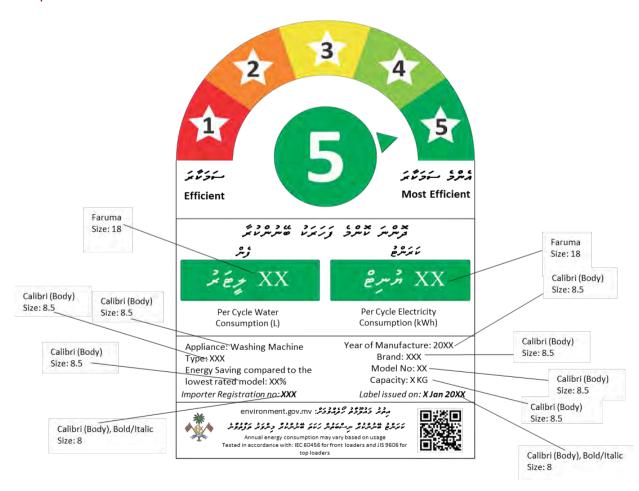


Size of the label

The size and dimension of the label shall be 13.5 cm length and 9 cm in width.

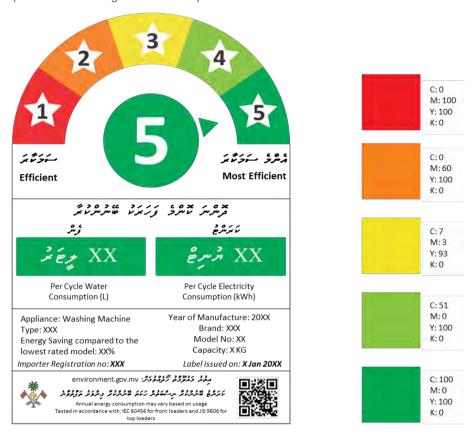


Font specification



Colour scheme

The label shall be printed according to the color specifications as follows:



Affixation of the energy label

The label shall be affixed on the appliance and on packaging of the appliance before being imported into the country.





Schedule 7A – Forms and letters for labelling of washing machine

The forms and letters to be used for product registration of washing machine are included here.

Cover letter

(Sample content of cover letter)

(To be prepared in the letterhead of the organization submitting the application (applicant))

(Single cover letter can be used for energy labeling of one or more appliance type i.e. AC, REF, W/M)

To: Energy Efficiency Section
Energy Department,
Ministry of Environment, Climate Change and Technology
Handhuvaree Hingun, Maafannu, 20392,
Male, Republic of Maldives

Date: [Insert date]

Subject: Application for seeking approval for energy efficiency label

Dear [insert recipient name],

This is with reference to the above subject and the program published by MECCT on energy efficiency labelling. I, on behalf of the M/s **[insert company name]**, is submitting this application for seeking permission from MECCT for energy efficiency label as per the criterion mentioned in the program.

Enclosures with this application: (List of forms attached and supporting documents attached)

Kindly evaluate the particulars attached with this application and confirm whether the appliances can be considered for EE labelling as per the program rolled out by MECCT.

Regards,

[Insert authorized representative name]
[Insert applicant title]
[Insert applicant organization name]
[Insert applicant address]

Form 2: Washing Machine - Product registration



Ministry of Environment, Climate Change and Technology Male', Republic of Maldives

وسرسطيم هُوْ مُعْوَمُرُمُومُوعُ، عُومُوعُ مُعْرُةُ مُعْرُةُ مُعْرُةً مُعْرُةً وَمُعْرُقٍ وَمِعْرُقٍ وَمِعْرُقٍ وَوْرُ وِوْرِعْرُهُمْ أَعْلَمُ مُعْرُومُونُ عُومُونُوعُ مُعْرُةً مُعْرُةً وَمُعْرُقٍ وَمِعْرُقٍ الْمِعْرُقِي

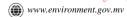


FORM 2- PRODUCT REGISTRATION

		FOR MINI.	STRY USE ONLY		
FORM CHECKLIS	ST				
Model	1	2	3		4
Form 3					
Test Report					
Cover Letter					
Application receiv	red by				Signature
Application No: Name:					
Designation:					
Date:					
					•
A. DETAILS ABO	DUT THE ORGANI	ZATION			
mporter Registration					
Name of the authori	ized Representativ	e:			
Designation:					
Mobile no.:					
Office no.:					
Email:					
B. DETAILS ABO	OUT THE PRODUC	CT			
MOE	DELS	1	2	3	4
Brand:					
Model no.:					
nformation on Fam	nily of model:				
	j:				



hakathari@environment.gov.mv



MODELS	1	2	3	4
Capacity (kg):				
Product Type: Top load Front load				
Electricity consumption KWh/cycle/kg:				
Water consumption L/cycle/kg:				
Wash performance (%):				
Safety Standard followed:				
Did the product pass all applicable safety tests? (Y/N)				

Page 2 | 53

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Form 3 (Test report format WM)



Ministry of Environment, Climate Change and Technology Male', Republic of Maldives



FORM 3 – DETAILS OF TEST RESULTS WASHING MACHINE

Application No. (For Ministry use only):

- The sections below are to be filled by the applicant based upon the test reports issued by the accredited test laboratories.
- Test reports will only be accepted from accredited laboratories. An Accredited Laboratory is a laboratory accredited by a recognized accrediting authority which are Mutual Recognition Arrangement (MRA) signatories such as ILAC/APLAC to perform testing as per a certain test standard or protocol.
- For a list of accredited laboratories please visit Ministry of Environment, Climate Change and Technology website.
- Copy of the original test results should be submitted with this form for both performance and safety tests.
- For each model stated in Form 2, separate Form 3 should be filled and submitted.

A. DETAILS OF THE TEST RESULTS				
Details of the test laboratory, where the tests as specified by the test standards has been conducted				
Name of the test laboratory:				
Address:				
City:				
Province:				
Postal Code:				
Phone Number:				
Fax:				
Email:				
Website:				

B. DETAILS OF AUTHORIZE	DETAILS OF AUTHORIZED REPRESENTATIVE OF TEST LABORATORY		
Name of the Authorized Representative:			
Designation:			
Phone no:			
Email:			

Version 1.0

P a g e 1 | 3







The following test standard should be followed, and the following tests should be conducted.			
1. Test standards followed	1. IEC 60456 test procedure (for front loaders) 2. JIS 9606 test procedure (for top loaders & semi-automatic)		
2. Tests to be conducted	1. Wash performance (soil removal) 2. Rinse efficiency 3. Energy consumption 4. Water consumption 5. Water extraction		
3. Safety test	IEC 60335 or the safety standard followed in the country of origin.		

C. INFORMATION ON PRODUCT SAMP	LES AND TESTS CONDUCTED	
Test Report no:		
Date of receipt of sample by the lab:		
Date on which the tests are conducted:		
Dradust tupe (Tiel, the pradust tupe)	Top load	
Product type (Tick the product type)	Front load	
Brand:		
Model No.:		
Information of Family of Model:		
Dimensions:		
D. SUMMARY OF TEST RESULTS		
Brand /make:		
Model no.:		
Washing machine type		
Serial no. of the sample tested:		
Capacity (kg):		
In-built heater present (yes/no):		
Wash /Rinse program followed:		
Electricity consumption (kWh/kg/cycle):		

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Page 2 | 3



Water consumption (L/kg/cycle):

Wash performance:	
Rinse performance:	
Remaining moisture content (RMC) %:	
Year of Manufacture:	
Safety Test Standard followed (IEC 60335 or if any other, specify standard and country of origin)	
Did the product pass all applicable safety tests? (Y/N)	

+960 3018300

hakathari@environment.gov.mv

