



ENERGY

EFFICIENCY LABELLING

A Guide for Energy Efficiency Labelling



This guide provides an overview of energy efficiency label compliance in South Africa

Version 2.0



energy

Department:
Energy
REPUBLIC OF SOUTH AFRICA



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Acknowledgements

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- The Department of Energy;
- The Department of Trade and Industry;
- The United Nations Development Programme;
- The National Regulator for Compulsory Specifications;
- The South African Bureau of Standards;
- The South African Air-conditioning Suppliers Association;
- The Electro Technical Industry Association; and

Energy Efficiency Labelling: Introduction to manufacturers, suppliers, retailers and consumers

Preamble

This label guideline was developed under the energy efficiency Standards and Labelling (S&L) Project; a project initiated by the Department of Energy in collaboration with the Department of Trade and Industry, the Global Environment Facility and the United Nations Development Programme.

The S&L Project is aimed at removing inefficient household appliances and encouraging the penetration of new energy efficient appliances in the South African market. The project will also contribute towards the reduction of electricity demand in South Africa especially within the residential sector and also to introduce continuous energy efficiency improvements in the appliance and equipment industry.

The project objectives are achieved through the introduction of mandatory Minimum Energy Performance Standards (MEPS) and a product labelling system. The MEPS set the minimum energy levels and prohibit market penetration of appliances that have energy performance below the set minimum performance levels. Product labelling is designed to inform end-users of the energy consumption levels of listed products.

- Air Conditioners
- Electric lamps
- Washer-dryer combination
- Washing machines
- Tumble dryers
- Audio & video equipment
- Electric geysers
- Electric ovens
- Fridge-freezer combination
- Freezers
- Fridges
- Dish washers

Version of Label Guideline

This version, Version 2.0, supersedes all previous versions of the South African Energy Efficiency Label Guideline.

INTRODUCTION AND LEGAL FRAMEWORK



Legal framework for product labelling and MEPS

The S&L Project gets its legal mandate from the National Energy Act: Section 19 – I, which states that the Minister (of Energy) may make regulation regarding (i) product labelling for energy efficiency purposes (ii) energy efficiency standards for specific appliances. The National Energy Efficiency Strategy, which sets a 10 % reduction target in energy demand by 2015, also stipulates ‘the introduction of appliance labelling, adoption of appropriate standards, awareness and education’ as an approach to meet its reduction target.

Also relevant is the Industrial Policy Action Plan 2 (IPAP2), which supports initiatives for green and energy saving industries. This Action Plan also introduced incentives such as the Manufacturing Competitiveness Enhancement Programme (MCEP) and Production Incentive (PI) to encourage industries to achieve their energy savings targets.

The MEPS are introduced through technical regulations administered by the National Regulator for Compulsory Specifications (NRCS) established by the NRCS Act. As such the NRCS is the regulatory authority mandated to enforce the energy efficiency compliance of the regulated products covered by the S&L Project. The specific requirements for the products listed in this guideline are detailed in the following compulsory specifications or technical regulations:

- a) VC 8043: compulsory specification for incandescent lamps
- b) VC 9091: compulsory specification for single-capped fluorescent lamps
- c) VC 9008: compulsory specification for the energy efficiency and labelling of electrical and electronic apparatus
- d) VC 9006: compulsory specification for hot water storage tanks for domestic use

Product labelling is a requirement guided by South African National Standards (SANS) under the South African Bureau of Standards (SABS) which was established by the SABS Act. The National Standards for the products under the S&L Project are listed below:

- a) SANS 941: For Electric ovens, tumble dryers, dish washers, refrigerators, freezers, washer-dryer combinations and washing machines, audio & visual equipment and air conditioners.
- b) SANS 151: For fixed electric storage water heaters.
- c) SANS 60357/60064/60969: Electric lamps

Understanding the South African energy efficiency label

Purpose of the label

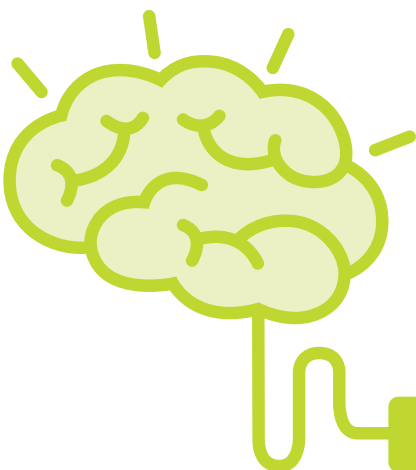
The energy efficiency label is designed to provide South African consumers with accurate and comparable information on the energy efficiency of household appliances and equipment.

The information provided on the label informs users of the energy efficiency rating of each appliance, the manufacturer and product model. For some appliances, the label will also have non-energy data such as water consumption per cycle and appliance noise level.

All labels will have seven horizontal colour coded bars extending from left towards the column on the right of the label, ranging vertically from dark green on top to dark red in the bottom. Each colour coded bar reflects an energy efficiency threshold for a particular appliance. The actual energy efficiency class of each appliance is indicated by a white letter on a short black coded bar in the column, extending from right to left. The most energy efficient appliances will thus have an energy class corresponding with the dark green energy efficiency bar.

Depending on the minimum energy performance level set for each appliance, the energy grades will vary from A+++ to D, A++ to E, A+ to F and A to G. This range is consistent with the label's seven colour codes.


The appliances' energy consumption is reported in either kilo watts hour (kWh) per annum or per cycle. The energy performance of appliances that are normally operational throughout the year, such as refrigerators and storage water heaters, is depicted in kWh per year; whereas for appliances that are used as and when necessary, such as washing machines and dish washers, energy consumption is expressed in kWh per cycle.



Understanding the South African energy efficiency label

What is on the label?

- 1 The South African Energy Efficiency logo
- 2 Type of appliance
- 3 The company that manufactured or introduced the appliance into the South African market
- 4 The appliance model
- 5 The seven energy efficiency levels
- 6 Energy performance class of the particular appliance
- 7 Performances and characteristics of appliances
- 8 Reference to additional information on appliance performance.
- 9 The relevant National Standard (SANS) number

1		ENERGY
		2 Washing machine
3	Manufacturer	
4	Model	
	More efficient	
	A+++	
	A++	
	A+	
5	A	6 B
	B	
	C	
	D	
	Less efficient	
	Energy consumption, kWh/cycle	XYZ
7	Actual energy consumption will depend on how the appliance is used.	
	Spin drying performance (A: higher G: lower)	ABC D EFG
	Spin speed (rpm)	YZ
	Capacity (cotton), kg	YZ
	Water consumption, L	YZ
	Noise (dB(A) re 1 pW)	YZ
	Washing Spinning	YZ
8	Further information is contained in the product brochure.	
9	Norm SANS 60456	

Understanding the South African energy efficiency label (correct use of the label)

Energy efficiency label colour palette

The label shall have a process colour - CMYK colour translations. The background of the label should always be white. The CMYK colour values are as shown below.

Energy efficiency class

C0 M0 Y0 K100

A

Rating scale

A+++	C100 M0 Y100 K0
A++	C70 M0 Y100 K0
A+	C30 M0 Y100 K0
A	C0 M0 Y100 K0
B	C0 M30 Y100 K0
C	C0 M70 Y100 K0
D	C0 M100 Y100 K0

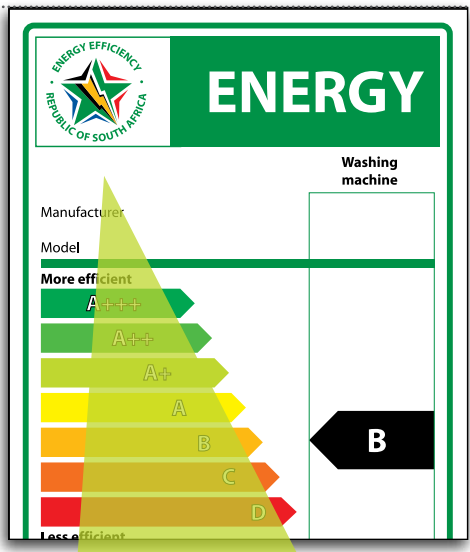
NB: The above colours also apply to the A++ to E, A+ to F and A to G rating scales.

Text

Energy Efficiency logo wording [1], the letters used in the seven energy efficiency levels [5] and the letter depicting the energy performance class of a particular appliance [6]. Below is the energy efficiency rating colour breakdown for the text.

A+++ C0 M0 Y0 K0 - fill
C0 M0 Y0 K100 - stroke

Understanding the South African energy efficiency label (correct use of the label)



Energy Efficiency logo colour palette

The colours that are used, are in CMYK colour space as shown below and the use of any other colour space such as RGB is strictly prohibited for printing of labels. The background is white and the colours of the star should visually be the same as the colours used for the South African national flag.

The text around the star is in green as shown below (number: 3).

- 1 C0 M0 Y0 K0
- 2 C100 M65 Y0 K10
- 3 C100 M0 Y100 K15
- 4 C0 M0 Y0 K100
- 5 C0 M30 Y100 K0
- 6 C0 M100 Y100 K0



Logo typography

The logo type is based on Myriad typeface. Samples of Myriad typeface in different weights and styles are shown below.

- Myriad Light: ABCDEFGHIJKLMNOPQRSTUVWXYZ
- Myriad Regular: ABCDEFGHIJKLMNOPQRSTUVWXYZ
- Myriad Semi bold: ABCDEFGHIJKLMNOPQRSTUVWXYZ
- Myriad Bold: ABCDEFGHIJKLMNOPQRSTUVWXYZ
- Myriad Light Italic: ABCDEFGHIJKLMNOPQRSTUVWXYZ
- Myriad Semi bold Italic: ABCDEFGHIJKLMNOPQRSTUVWXYZ
- Myriad Black Condensed Italic: ABCDEFGHIJKLMNOPQRSTUVWXYZ

Logo positioning

The logo should always be placed at the top left of the label on a white background and white space around measuring 5mm for the 110mm x 200mm and 0.5 mm for the 55mm x100mm label.

Understanding the South African energy efficiency label (correct use of the label)

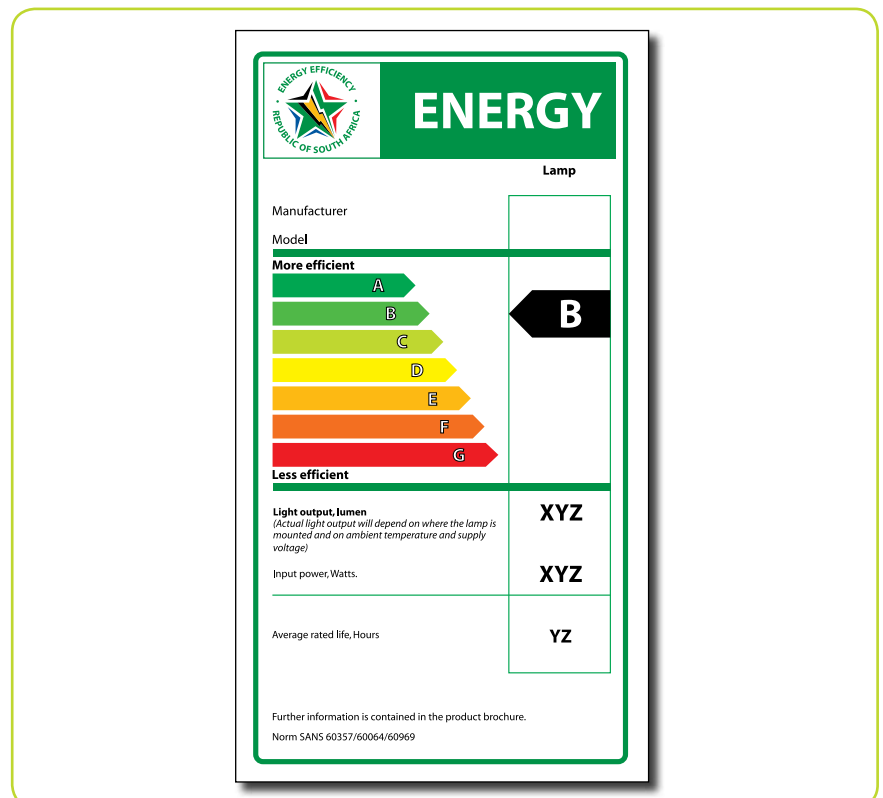
Sizes of the labels

The sizes of the label are determined by the size of the appliance on which they should be affixed. For any other use where the label is printed in a larger format, its content must remain proportionate to the specifications below. The format of the label shall be in vector format for enlargement purposes.

Below is an overview of the label sizes

Size (mm)	Used for
110 x 200	Fridge / freezers, dishwashers, clothes washers, clothes washers / dryers, tumble dryers, ovens, air conditioners, storage water heaters
55 x 100	Lamps

The actual size (100%) of a 55mm x 100mm label is shown below: Label not to specified dimension.



Understanding the South African energy efficiency label (correct use of the label)

Sizes of the labels

The actual size (100%) of a 110mm x 200mm label is shown below:
Label not to specified dimension.

ENERGY EFFICIENCY REPUBLIC OF SOUTH AFRICA		ENERGY	
		Washing machine	
Manufacturer			
Model			
More efficient			
A+++			
A++			
A+			
A			
B		B	
C			
D			
Less efficient			
Energy consumption, kWh/cycle		XYZ	
Actual energy consumption will depend on how the appliance is used.			
Spin drying performance (A: higher G: lower)		ABC D EFG	
Spin speed (rpm)		YZ	
Capacity (cotton), kg		YZ	
Water consumption, L		YZ	
Noise (dB(A) re 1 pW)	Washing	YZ	
	Spinning	YZ	
Further information is contained in the product brochure.			
Norm SANS 60456			

Understanding the South African energy efficiency label (correct and incorrect use of the label)

Displaying the label on appliances

The label should be affixed on the outside the product in a clearly visible position. The labels shall be affixed to appliances as guided below:

Product Category	Label Position
Lamps	On any side of the packaging close to the appliance brand name
Air Conditioners	On the front of the appliance close to the appliance brand name
Electric Ovens	On the front of the appliance close to the appliance brand name
Refrigerating Appliances	On the front of the appliance close to the appliance brand name
Dishwashers	On the front of the appliance close to the appliance brand name
Washing Machines	On the front of the appliance close to the appliance brand name
Washer Dryers	On the front of the appliance close to the appliance brand name
Tumble Dryers	On the front of the appliance close to the appliance brand name
Storage Water Heaters	Close to the appliance brand name



Do not cover the energy label with any other label or information
Do not affix the label on the inside of displayed appliance

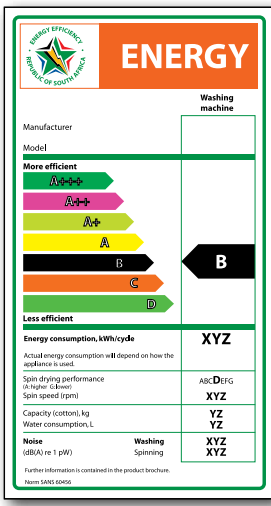
What material is used to print the labels?

The label must be water resistant with high quality colours. Use of digital printing technology is recommended. They must be self-adhesive and stay affixed until they are removed. On removal the labels should be easily peeled off without leaving residual on the appliance surface.

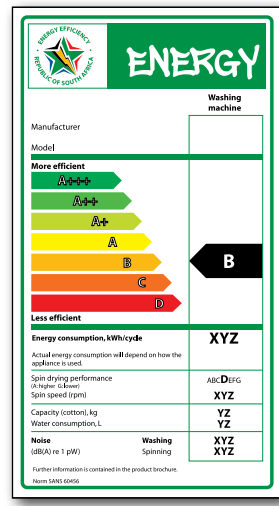
Understanding the South African energy efficiency label (incorrect use of the label)



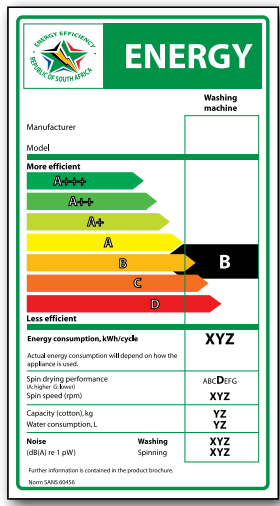
Do not change the colours of any component of the label including the Energy Efficiency logo



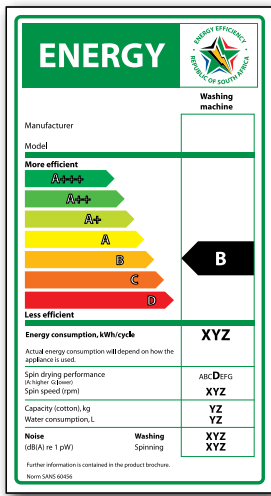
Don't change the fonts of any component of the label including the Energy Efficiency logo



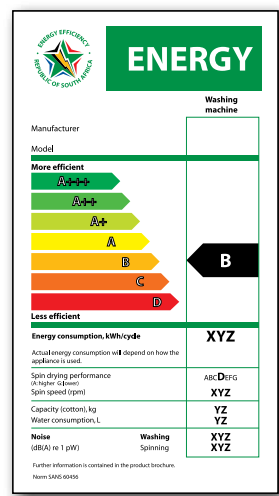
Do not stretch any component of the label including the Energy Efficiency logo



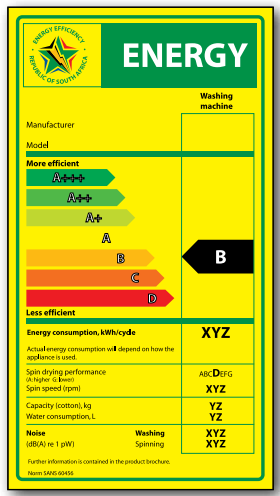
Do not change the position of any graphic, wording or the Energy Efficiency logo



Do not omit any information or graphics from the label



Do not use any colour as background for the label except white





Obligations for Suppliers and Dealers

Suppliers and manufacturers shall ensure that:

- They supply a label with each product, free of charge, to the retailers.
- They include the label in the product brochure or other literature provided with the product.
- That the product energy consumption information provided on the label and product brochure is accurate.

Dealers will ensure that:

- They affix the supplied label on the outside of displayed appliances as per the label position guide above.
- In case of distance selling and other forms of selling where the end-user cannot see the product displayed, make sure that potential end-users are provided with product energy efficiency class and energy consumption data before purchase.
- Any advertisement or promotional material for a specific model of the listed appliances which discloses energy related, price or technical information, must indicate the energy efficiency class of that model.

KITCHEN

Refrigerators
Dishwashers
Ovens



Consumer general kitchen tips

- Always use the right temperature setting. Higher temperature settings cause higher energy losses
- Select the no-heat drying cycle on your dishwasher (also called “air dry”)
- Ensure that fridges and freezers are installed away from cookers and other sources of heat
- Be sure your dishwasher is full (not overloaded) when you run it
- Defrost frozen food in the fridge overnight as defrosting food in advance typically halves the cooking time



APPLIANCE

REFRIGERATORS



Example of a Fridge

Understanding the South African refrigerators energy efficiency label



After central heating, refrigeration appliances have the biggest electricity demand in your home, because they run all the time. This makes energy efficiency a key consideration when purchasing refrigeration appliances. Buying an energy-efficient fridge / freezer can help you reduce your energy bill.

The energy efficiency levels for refrigerators range from A+++ to D, with A+++ (being the most efficient) and D (the least efficient). The estimated energy consumption in kWh/annum is used to compare the energy efficiency between appliances.

The size specifications for refrigerator label is 110 mm wide and 200 mm high. If the label is printed in a different format, its content must nevertheless remain proportionate to the specifications above. For accurate dimensions please refer to the next page.



Consumer energy saving quick tips

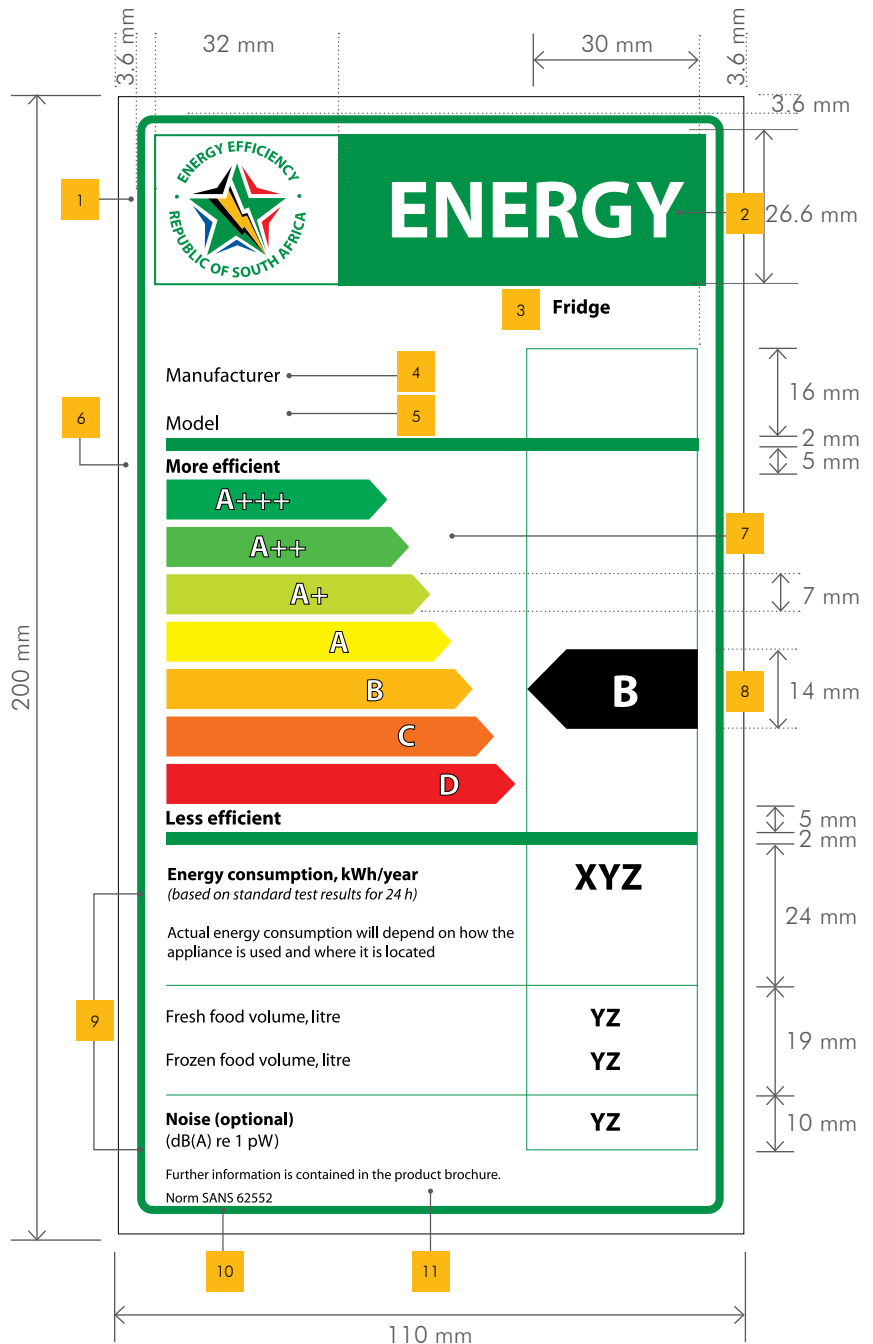
- Get rid of inefficient extra fridges or only use if really needed
- Fridges should be airtight. Check and clean or replace seals if necessary
- Make sure your fridge is running at around 3-4 °C and freezer at -15 to -18 °C. Defrost freezers when they ice up
- Let food cool before refrigerating or freezing
- Minimise opening the fridge and close your fridge door quickly so it doesn't use extra power to get back to its optimal cooling level. Make sure coils at the back of the fridge have good air circulation
- If possible, don't place your refrigerator in direct sunlight or near the stove. Heat will cause the unit to use more energy to stay cold

Actual dimensions

The design of the label shall be as in the figure below.

The following information shall be included in the label:

- 1 **Energy Efficiency logo:** Size: 24 mm in diameter.
Position: placed at the top left with sufficient white space around.
NB: For more information about the logo, please refer to page 10.
- 2 **Energy:** text: Myriad bold 41 pt, 100% white.
- 3 **Fridge:** text: Myriad bold 10 pt, 100% black.
- 4 **Manufacturer:** text: Myriad regular 10 pt, 100% black. **Data entered:** Myriad bold 10 pt, 100% black.
- 5 **Model:** text: Myriad regular 10 pt, 100% black. **Data entered:** Myriad bold 10 pt, 100% black.
- 6 **More efficient, Less efficient:** Myriad bold 10 pt, 100% black.
- 7 **A+++ to D scale**
Arrow: height: 7 mm, gap: 0.75 mm
Text: Myriad bold 15.45 pt, capitals and white; '+' symbols: Myriad bold 15.45 pt, capitals, white, aligned on a single row.
- 8 **Energy efficiency class**
Arrow: width: 30 mm, height: 14 mm, 100% black.
Text: Myriad bold 23 pt, capitals and white.
- 9 **Appliance performance:** text: Myriad regular 9 pt/bold 9 pt/italic 8 pt, XYZ: Myriad bold 19 pt, 100% black. YZ: Myriad bold 13 pt, 100% black.
- 10 **SANS:** text: Myriad regular 7 pt, 100% black.
- 11 **Further information is contained in the product brochure:** Text: Myriad regular 7 pt, 100% black.



APPLIANCE

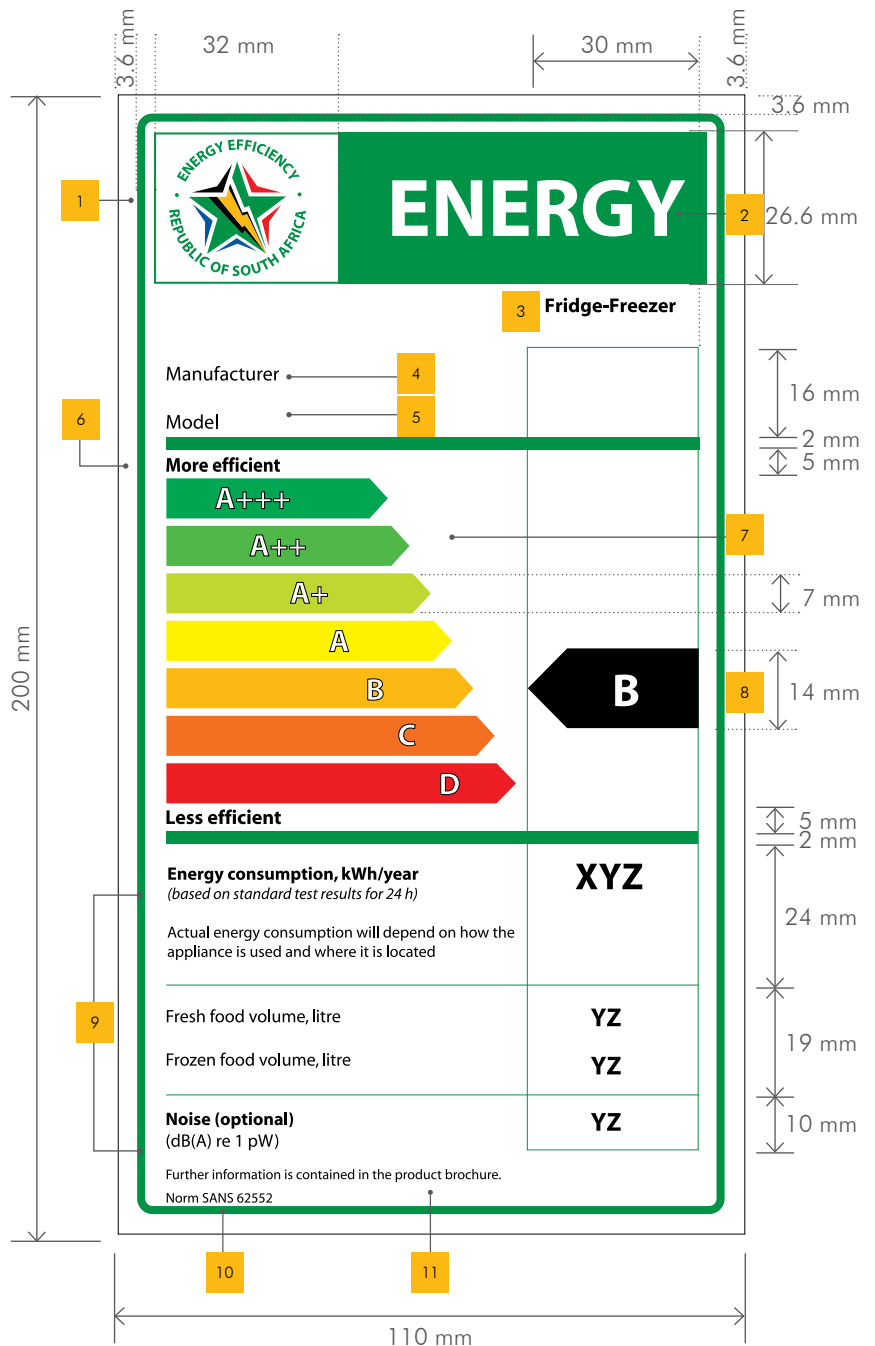
FRIDGE-FREEZERS

Actual dimensions

The design of the label shall be as in the figure below.

The following information shall be included in the label:

- 1 **Energy Efficiency logo:** Size: 24 mm in diameter.
Position: placed at the top left with sufficient white space around.
NB: For more information about the logo, please refer to page 10.
- 2 **Energy:** text: Myriad bold 41 pt, 100% white.
- 3 **Fridge-Freezer:** text: Myriad bold 10 pt, 100% black.
- 4 **Manufacturer:** text: Myriad regular 10 pt, 100% black. **Data entered:** Myriad bold 10 pt, 100% black.
- 5 **Model:** text: Myriad regular 10 pt, 100% black. **Data entered:** Myriad bold 10 pt, 100% black.
- 6 **More efficient, Less efficient:** Myriad bold 10 pt, 100% black.
- 7 **A+++ to D scale**
Arrow: height: 7 mm, gap: 0.75 mm
Text: Myriad bold 15.45 pt, capitals and white; '+' symbols: Myriad bold 15.45 pt, capitals, white, aligned on a single row.
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Arrow: width: 30 mm, height: 14 mm, 100% black.
Text: Myriad bold 23 pt, capitals and white.
- 9 **Appliance performance:** text: Myriad regular 9 pt/bold 9 pt/italic 8 pt, XYZ: Myriad bold 19 pt, 100% black. YZ: Myriad bold 13 pt, 100% black.
- 10 **SANS:** text: Myriad regular 7 pt, 100% black.
- 11 **Further information is contained in the product brochure:** Text: Myriad regular 7 pt, 100% black.

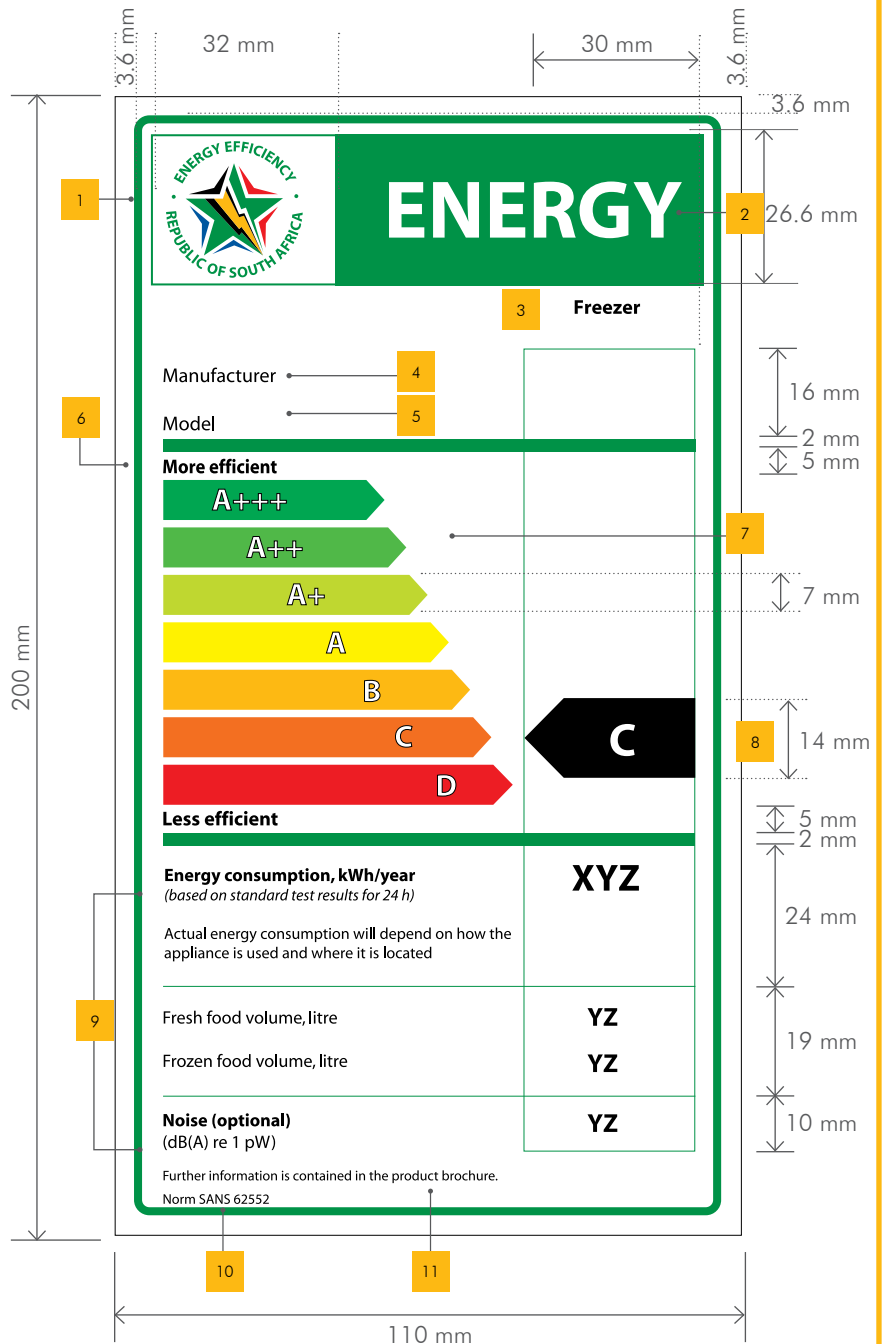


Actual dimensions

The design of the label shall be as in the figure below.

The following information shall be included in the label:

- 1 **Energy Efficiency logo:** Size: 24 mm in diameter.
Position: placed at the top left with sufficient white space around.
NB: For more information about the logo, please refer to page 10.
- 2 **Energy:** text: Myriad bold 41 pt, 100% white.
- 3 **Freezer:** text: Myriad bold 10 pt, 100% black.
- 4 **Manufacturer:** text: Myriad regular 10 pt, 100% black. **Data entered:** Myriad bold 10 pt, 100% black.
- 5 **Model:** text: Myriad regular 10 pt, 100% black. **Data entered:** Myriad bold 10 pt, 100% black.
- 6 **More efficient, Less efficient:** Myriad bold 10 pt, 100% black.
- 7 **A+++ to D scale**
Arrow: height: 7 mm, gap: 0.75 mm
Text: Myriad bold 15.45 pt, capitals and white; '+' symbols: Myriad bold 15.45 pt, capitals, white, aligned on a single row.
- 8 **Energy efficiency class**
Arrow: width: 30 mm, height: 14 mm, 100% black.
Text: Myriad bold 23 pt, capitals and white.
- 9 **Appliance performance:** text: Myriad regular 9 pt/bold 9 pt/italic 8 pt, XYZ: Myriad bold 19 pt, 100% black YZ: Myriad bold 13 pt, 100% black.
- 10 **SANS:** text: Myriad regular 7 pt, 100% black.
- 11 **Further information is contained in the product brochure:** Text: Myriad regular 7 pt, 100% black.



Understanding the South African dishwashers energy efficiency label



Example of a Dishwasher



Dishwashers are increasingly becoming more energy and water efficient, but some brands, models and programs are more efficient than others. Because dishwashers can last for over ten years, it's important to buy the most energy efficient and cost effective model to suit your household's needs.

The label has an energy efficiency range from A+++ (A+++ being the most efficient) to D (D the least efficient).

The size specifications for a dishwasher label is 110 mm wide and 200 mm high. If the label is printed in a different format, its content must nevertheless remain proportionate to the specifications above. For accurate dimensions please refer to the next page.



Consumer energy saving quick tips

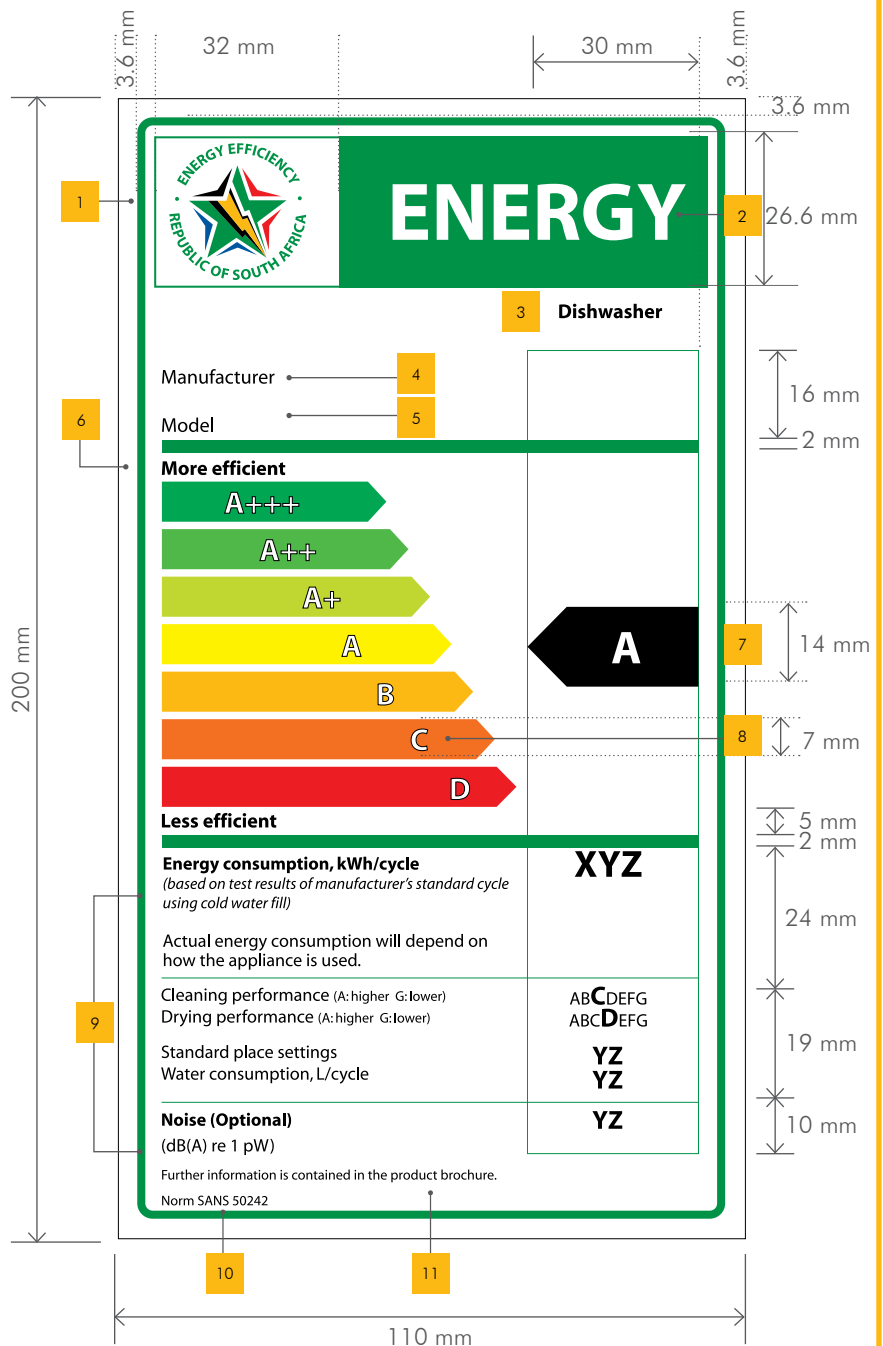
- When buying a dishwasher, look for an energy efficient model with air power and/or overnight dry setting. These features automatically turn off the dishwasher after the rinse cycle. This can save you up to 10 percent of your dishwashing energy costs
- Choosing the right dishwasher and following your expert tips on how to use it will save you money on running costs
- The power drying option can waste a lot of electricity, so a dishwasher without a 'dry' button is better – or you can just remember to leave it off
- Scrape, don't rinse, off large food pieces and bones. Soaking or prewashing is generally only recommended in cases of burned- or dried-on food

Actual dimensions

The design of the label shall be as in the figure below.

The following information shall be included in the label:

- 1 **Energy Efficiency logo:** Size: 24 mm in diameter.
Position: placed at the top left with sufficient white space around.
NB: For more information about the logo, please refer to page 10.
- 2 **Energy:** text: Myriad bold 41 pt, 100% white.
- 3 **Dishwasher:** text: Myriad bold 10 pt, 100% black.
- 4 **Manufacturer:** text: Myriad regular 10 pt, 100% black. **Data entered:** Myriad bold 10 pt, 100% black.
- 5 **Model:** text: Myriad regular 10 pt, 100% black. **Data entered:** Myriad bold 10 pt, 100% black.
- 6 **More efficient, Less efficient:** Myriad bold 10 pt, 100% black.
- 7 **Energy efficiency class**
Arrow: width: 30 mm, height: 14 mm, 100% black.
Text: Myriad bold 23 pt, capitals and white.
- 8 **A+++ to D scale**
Arrow: height: 7 mm, gap: 0.75 mm
Text: Myriad bold 15.45 pt, capitals and white; '+' symbols: Myriad bold 15.45 pt, capitals, white, aligned on a single row.
- 9 **Appliance performance:** text: Myriad regular 9 pt/bold 9 pt/italic 8 pt, XYZ: Myriad bold 19 pt, 100% black
YZ: Myriad bold 13 pt, 100% black.
- 10 **SANS:** text: Myriad regular 7 pt, 100% black.
- 11 **Further information is contained in the product brochure:** Text: Myriad regular 7 pt, 100% black.



Understanding the South African electrical oven energy efficiency label



Example of an Electric Oven



Because ovens have a rather long life span, it is important to choose one that's energy efficient. The yearly costs can amount to thousands of Rands from the various hot meals you prepare.

The labels have a rating between A+ + + for the most efficient, and D for the least efficient ovens.

The size specifications for an electrical oven label is 110 mm wide and 200 mm high. If the label is printed in a different format, its content must nevertheless remain proportionate to the specifications above. For accurate dimensions please refer to the next page.



Consumer energy saving quick tips

- Minimize conventional oven preheating. Except for breads and pastries, most foods do not need a preheated oven
- When buying ovens, a convection oven will lower cooking temperatures and shorten cooking times
- Use the microwave, toaster and "crock pots" rather than the oven. These smaller appliances consume 1/3 to 1/2 as much electricity as conventional ovens for cooking the same food item
- Turn off the oven five to 10 minutes before cooking time is up and let trapped heat finish the cooking and avoid opening the oven door repeatedly to check food that is cooking. This allows heat to escape and results in the use of more energy to complete the cooking of your food. Instead watch the clock or use a timer

APPLIANCE

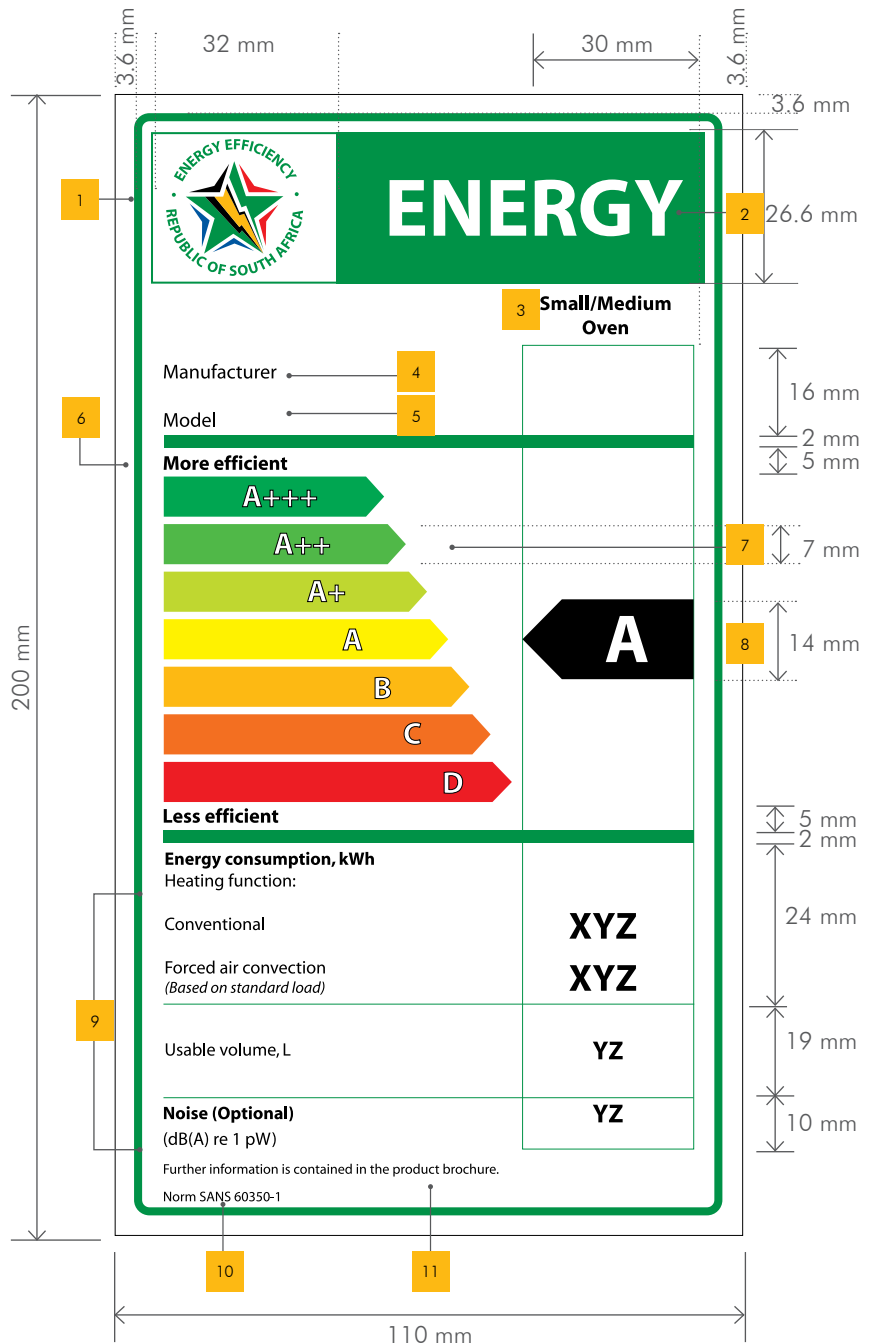
SMALL/MEDIUM ELECTRIC OVENS

Actual dimensions

The design of the label shall be as in the figure below.

The following information shall be included in the label:

- 1 **Energy Efficiency logo:** Size: 24 mm in diameter.
Position: placed at the top left with sufficient white space around.
NB: For more information about the logo, please refer to page 10.
- 2 **Energy:** text: Myriad bold 41 pt, 100% white.
- 3 **Small/Medium Oven:** text: Myriad bold 10 pt, 100% black.
- 4 **Manufacturer:** text: Myriad regular 10 pt, 100% black. **Data entered:** Myriad bold 10 pt, 100% black.
- 5 **Model:** text: Myriad regular 10 pt, 100% black. **Data entered:** Myriad bold 10 pt, 100% black.
- 6 **More efficient, Less efficient:** Myriad bold 10 pt, 100% black.
- 7 **A+++ to D scale**
Arrow: height: 7 mm, gap: 0.75 mm
Text: Myriad bold 15.45 pt, capitals and white; '+' symbols: Myriad bold 15.45 pt, capitals, white, aligned on a single row.
- 8 **Energy efficiency class**
Arrow: width: 30 mm, height: 14 mm, 100% black.
Text: Myriad bold 23 pt, capitals and white.
- 9 **Appliance performance:** text: Myriad regular 9 pt/bold 9 pt/italic 8 pt, XYZ: Myriad bold 19 pt, 100% black. YZ: Myriad bold 13 pt, 100% black.
- 10 **SANS:** text: Myriad regular 7 pt, 100% black.
- 11 **Further information is contained in the product brochure:** Text: Myriad regular 7 pt, 100% black.



APPLIANCE

LARGE ELECTRIC OVENS

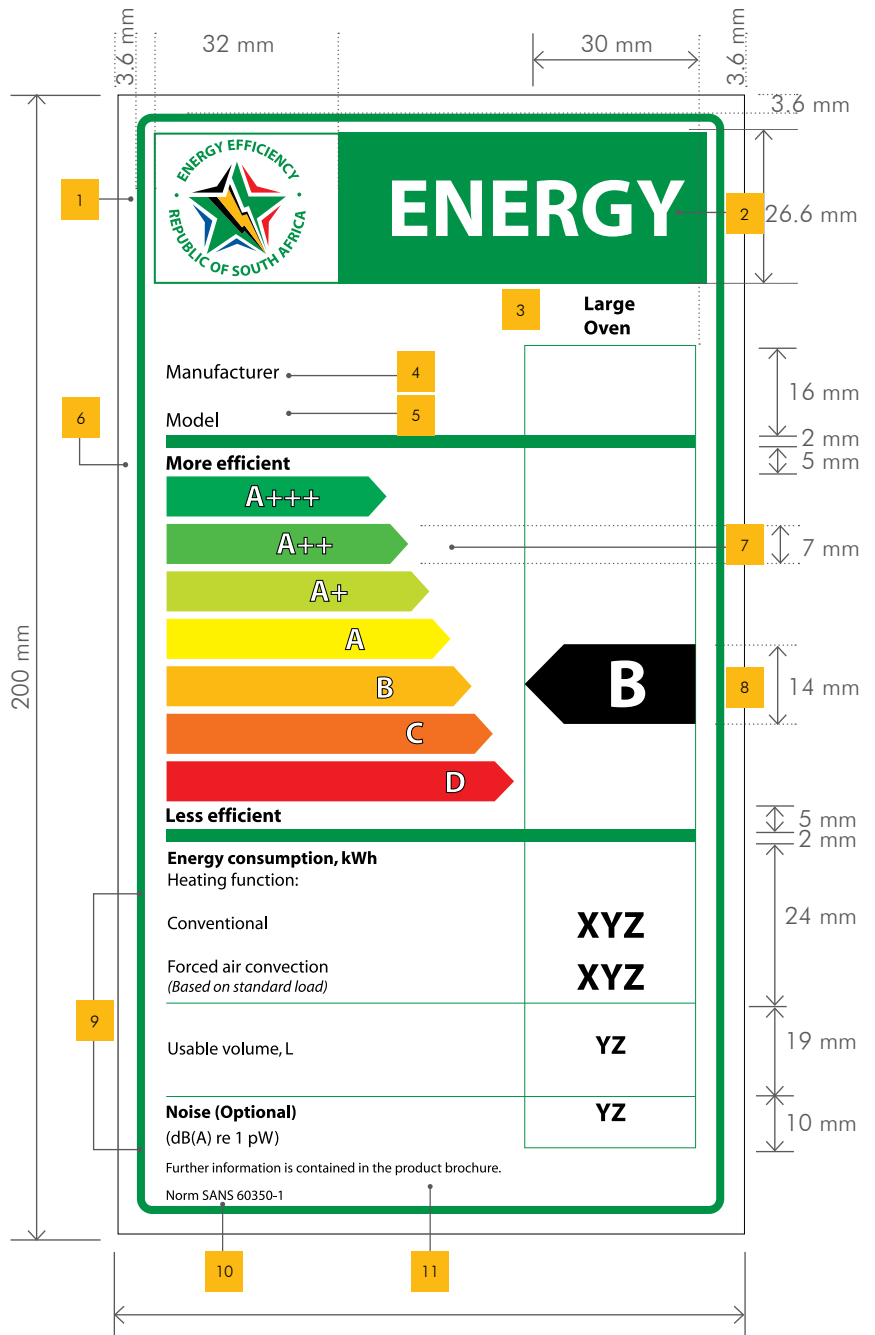
Actual dimensions

The design of the label shall be as in the figure below.

The following information shall be included in the label:

- 1 **Energy Efficiency logo:** Size: 24 mm in diameter.
Position: placed at the top left with sufficient white space around.
NB: For more information about the logo, please refer to page 10.
- 2 **Energy:** text: Myriad bold 41 pt, 100% white.
- 3 **Large Oven:** text: Myriad bold 10 pt, 100% black.
- 4 **Manufacturer:** text: Myriad regular 10 pt, 100% black. **Data entered:** Myriad bold 10 pt, 100% black.
- 5 **Model:** text: Myriad regular 10 pt, 100% black. **Data entered:** Myriad bold 10 pt, 100% black.
- 6 **More efficient, Less efficient:** Myriad bold 10 pt, 100% black.
- 7 **A+++ to D scale**
Arrow: height: 7 mm, gap: 0.75 mm
Text: Myriad bold 15.45 pt, capitals and white; '+' symbols: Myriad bold 15.45 pt, capitals, white, aligned on a single row.
- 8 **Energy efficiency class**
Arrow: width: 30 mm, height: 14 mm, 100% black.
Text: Myriad bold 23 pt, capitals and white.
- 9 **Appliance performance:** text: Myriad regular 9 pt/bold 9 pt/italic 8 pt, XYZ: Myriad bold 19 pt, 100% black. YZ: Myriad bold 13 pt, 100% black.
- 10 **SANS:** text: Myriad regular 7 pt, 100% black.

Further information is contained in the product brochure: Text: Myriad regular 7 pt, 100% black.



THE LAUNDRY

Washing machines Washer-Dryer machines
Tumble dryers



Consumer general laundry tips

- Use free energy from the sun or an indoor clothes rack to dry your washing, as clothes dryers are energy hungry
- Wash your clothes in cold water using cold-water detergents whenever possible
- Wash and dry full loads. If you are washing a small load, use the appropriate water-level setting
- Dry towels and heavier cottons in a separate load from lighter - weight clothes
- Don't over-dry your clothes. If your machine has a moisture sensor, use it



Understanding the South African tumble dryers energy efficiency label



Example of a Tumble Dryer



Modern machines have super-quick drying times, larger drum sizes, with some now achieving A ratings for energy efficiency and above. So cut down on running costs and environmental impact with an energy efficient tumble dryer.

Electric tumble dryers are given a rating between A+++ for the most efficient, and D for the least efficient tumble dryers.

The size specifications for a tumble dryer label is 110 mm wide and 200 mm high. If the label is printed in a different format, its content must nevertheless remain proportionate to the specifications above. For accurate dimensions please refer to the next page.



Consumer energy saving quick tips

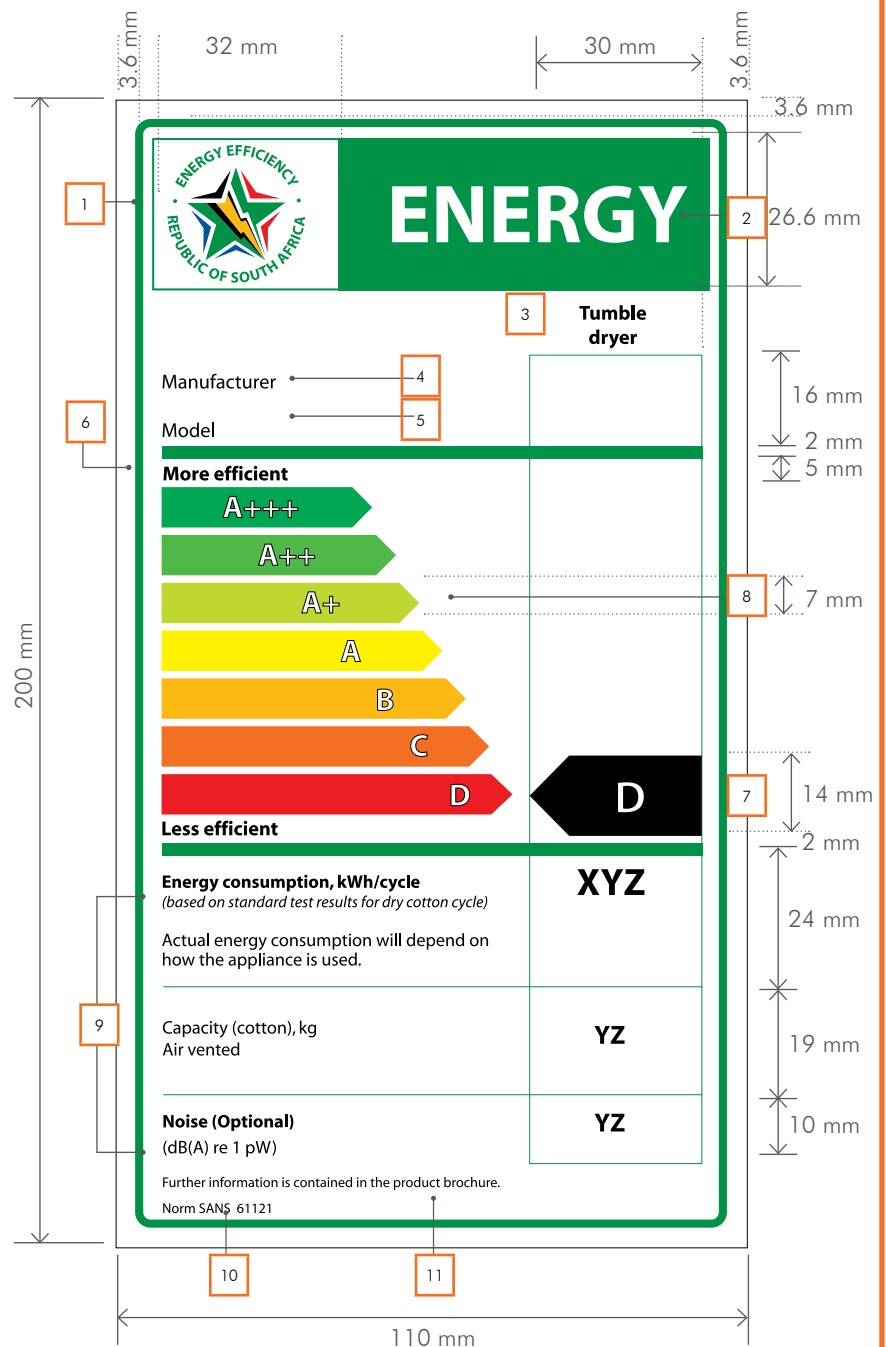
- If your clothes still feel wetter than they should at the end of the wash, put them back into the washing machine on the spin cycle at highest speed to get rid of that excess moisture
- Place a dry towel in the dryer with each load of wet clothes to absorb dampness and reduce drying time
- Use auto-dry rather than a timed cycle, that way you won't be using more energy than required
- Dry similar fabrics together
- Clean the filters every time you use your dryer to make sure they're free from fluff and your dryer will operate more efficiently
- When loading the dryer, untangle clothes and bedding as you go. Compacted fabrics will take longer to dry

Actual dimensions

The design of the label shall be as in the figure below.

The following information shall be included in the label:

- 1 **Energy Efficiency logo:** Size: 24 mm in diameter.
Position: placed at the top left with sufficient white space around.
NB: For more information about the logo, please refer to page 10.
- 2 **Energy:** text: Myriad bold 41 pt, 100% white.
- 3 **Tumble Dryer:** text: Myriad bold 10 pt, 100% black.
- 4 **Manufacturer:** text: Myriad regular 10 pt, 100% black. **Data entered:** Myriad bold 10 pt, 100% black.
- 5 **Model:** text: Myriad regular 10 pt, 100% black. **Data entered:** Myriad bold 10 pt, 100% black.
- 6 **More efficient, Less efficient:** Myriad bold 10 pt, 100% black.
- 7 **A+++ to D scale**
Arrow: height: 7 mm, gap: 0.75 mm
Text: Myriad bold 15.45 pt, capitals and white; '+' symbols: Myriad bold 15.45 pt, capitals, white, aligned on a single row.
- 8 **Energy efficiency class**
Arrow: width: 30 mm, height: 14 mm, 100% black.
Text: Myriad bold 23 pt, capitals and white.
- 9 **Appliance performance:** text: Myriad regular 9 pt/bold 9 pt/italic 8 pt, XYZ: Myriad bold 19 pt, 100% black. YZ: Myriad bold 13 pt, 100% black.
- 10 **SANS:** text: Myriad regular 7 pt, 100% black.
- 11 **Further information is contained in the product brochure:** Text: Myriad regular 7 pt, 100% black.



Understanding the South African washer - dryer machines energy efficiency label



Example of a Washer-Dryer combo



Washer-dryers can be far from efficient to run, and annual running costs vary largely. You can make an informed decision by studying the energy label very carefully. Washing machines can last for more than 10 years, so it's important to buy the most energy efficient washing machine to suit your needs.

The energy efficiency label for washer-dryer machines uses an energy class range from A (A being the most efficient) to G (the least efficient). The label also includes information on the water consumption per washing cycle.

The size specifications for a washer / dryer machine label is 110 mm wide and 200 mm high. If the label is printed in a different format, its content must nevertheless remain proportionate to the specifications above. For accurate dimensions please refer to the next page.



Consumer energy saving quick tips

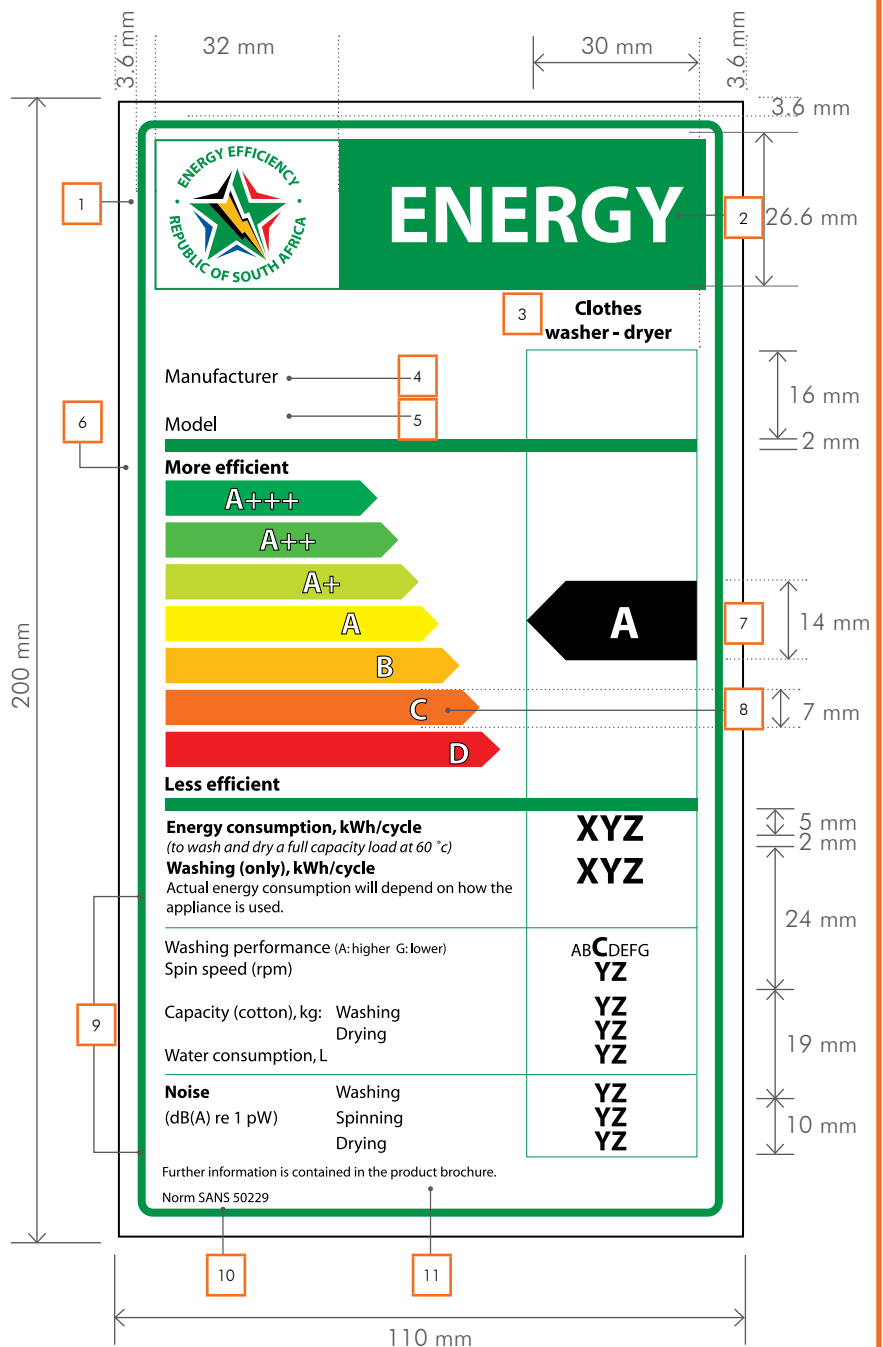
- Buy a front-loading machine. They use two-thirds less water than top-loaders, reducing water and heating costs
- Use the cool-down cycle to allow the clothes to finish drying with the heat remaining in the dryer
- Wash and dry full loads. It takes as much electricity to wash a small load as it does a full one, so you'll save money by only washing full loads
- If you are washing a small load, use the appropriate water-level setting
- Dry towels and heavier cottons in a separate load from lighter-weight clothes
- Don't over-dry your clothes. If your machine has a moisture sensor, use it

Actual dimensions

The design of the label shall be as in the figure below.

The following information shall be included in the label:

- 1 **Energy Efficiency logo:** Size: 24 mm in diameter.
Position: placed at the top left with sufficient white space around.
NB: For more information about the logo, please refer to page 10.
- 2 **Energy:** text: Myriad bold 41 pt, 100% white.
- 3 **Washer-Dryer:** text: Myriad bold 10 pt, 100% black.
- 4 **Manufacturer:** text: Myriad regular 10 pt, 100% black. **Data entered:** Myriad bold 10 pt, 100% black.
- 5 **Model:** text: Myriad regular 10 pt, 100% black. **Data entered:** Myriad bold 10 pt, 100% black.
- 6 **More efficient, Less efficient:** Myriad bold 10 pt, 100% black.
- 7 **Energy efficiency class**
Arrow: width: 30 mm, height: 14 mm, 100% black.
Text: Myriad bold 23 pt, capitals and white.
- 8 **A+++ to D scale**
Arrow: height: 7 mm, gap: 0.75 mm
Text: Myriad bold 15.45 pt, capitals and white; '+' symbols: Myriad bold 15.45 pt, capitals, white, aligned on a single row.
- 9 **Appliance performance:** text: Myriad regular 9 pt/bold 9 pt/italic 8 pt, XYZ: Myriad bold 19 pt, 100% black. YZ: Myriad bold 13 pt, 100% black.
- 10 **SANS:** text: Myriad regular 7 pt, 100% black.
- 11 **Further information is contained in the product brochure:** Text: Myriad regular 7 pt, 100% black.



Understanding the South African washing machines energy efficiency label



Example of Washing Machine



Manufacturers are making increasingly energy and water efficient washing machines. This is good news for the environment, so use the label as a guide to work out which ones are more energy efficient than others.

The energy efficiency scale range from A+++ to D, with A being the most efficient and D the least efficient.

The size specifications for a washing machine label is 110 mm wide and 200 mm high. If the label is printed in a different format, its content must nevertheless remain proportionate to the specifications above. For accurate dimensions please refer to the next page.



Consumer energy saving quick tips

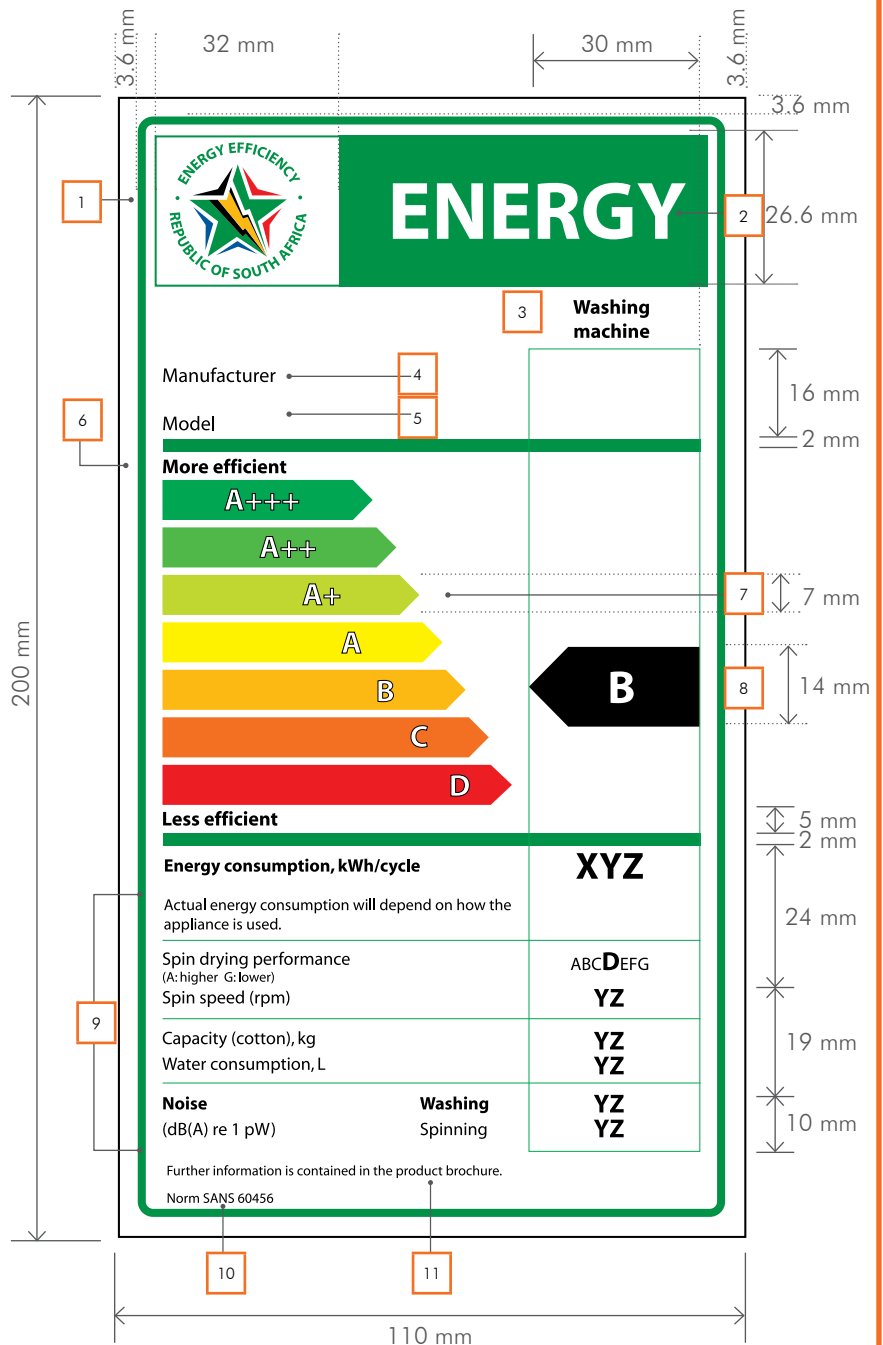
- Go cold! Studies show that clothes rinsed in cold water come out just as clean as those rinsed in warm water. Your water heating bill will drop considerably
- When cold water will not do the job, wash in warm, rather than hot water, and rinse in cold water
- Use a minimal amount of detergent, as residue can build up and cause mechanical failure
- Extra-dirty clothes? Instead of washing twice, use the presoak option
- Place the washer close to the water heater. Water loses heat as it flows through pipes. When the washer is located near the water heater, hot water doesn't have to travel as far to reach the washer, and less heat is lost. Insulating the pipes between the water heater and washer helps retain heat

Actual dimensions

The design of the label shall be as in the figure below.

The following information shall be included in the label:

- 1 **Energy Efficiency logo:** Size: 24 mm in diameter.
Position: placed at the top left with sufficient white space around.
NB: For more information about the logo, please refer to page 10.
- 2 **Energy:** text: Myriad bold 41 pt, 100% white.
- 3 **Washing Machine:** text: Myriad bold 10 pt, 100% black.
- 4 **Manufacturer:** text: Myriad regular 10 pt, 100% black. **Data entered:** Myriad bold 10 pt, 100% black.
- 5 **Model:** text: Myriad regular 10 pt, 100% black. **Data entered:** Myriad bold 10 pt, 100% black.
- 6 **More efficient, Less efficient:** Myriad bold 10 pt, 100% black.
- 7 **A+++ to D scale**
Arrow: height: 7 mm, gap: 0.75 mm
Text: Myriad bold 15.45 pt, capitals and white; '+' symbols: Myriad bold 15.45 pt, capitals, white, aligned on a single row.
- 8 **Energy efficiency class**
Arrow: width: 30 mm, height: 14 mm, 100% black.
Text: Myriad bold 23 pt, capitals and white.
- 9 **Appliance performance:** text: Myriad regular 9 pt/bold 9 pt/italic 8 pt, XYZ: Myriad bold 19 pt, 100% black. YZ: Myriad bold 13 pt, 100% black.
- 10 **SANS:** text: Myriad regular 7 pt, 100% black.
- 11 **Further information is contained in the product brochure:** Text: Myriad regular 7 pt, 100% black.



LAMPS



Consumer general lighting tips

- When changing bulbs, use the lowest wattage possible or convenient. In many cases a lower wattage bulb can be substituted for the one currently being used
- Light-zone your home and save electricity. Concentrate lighting in reading and work areas, and where it's needed for safety such as in stairwells. Reduce lighting in other areas, but avoid very sharp contrasts
- Purchase holiday light strings that feature LEDs. LED lights use 90 percent less energy than standard incandescent bulbs



Understanding the South African lamps energy efficiency label



Example of a CFL



Lighting is one of the top five energy-consuming household appliances. With these new labels in place, consumers will be better equipped to choose the type of energy saving lamp which best meets their lighting needs.

The label for lamps uses an energy efficiency class range of A (high energy efficiency) to G (low energy efficiency).

The size specifications for lamp label is 55 mm wide and 100 mm high. If the label is printed in a different format, its content must nevertheless remain proportionate to the specifications above. For accurate dimensions please refer to the next page.



Consumer energy saving quick tips

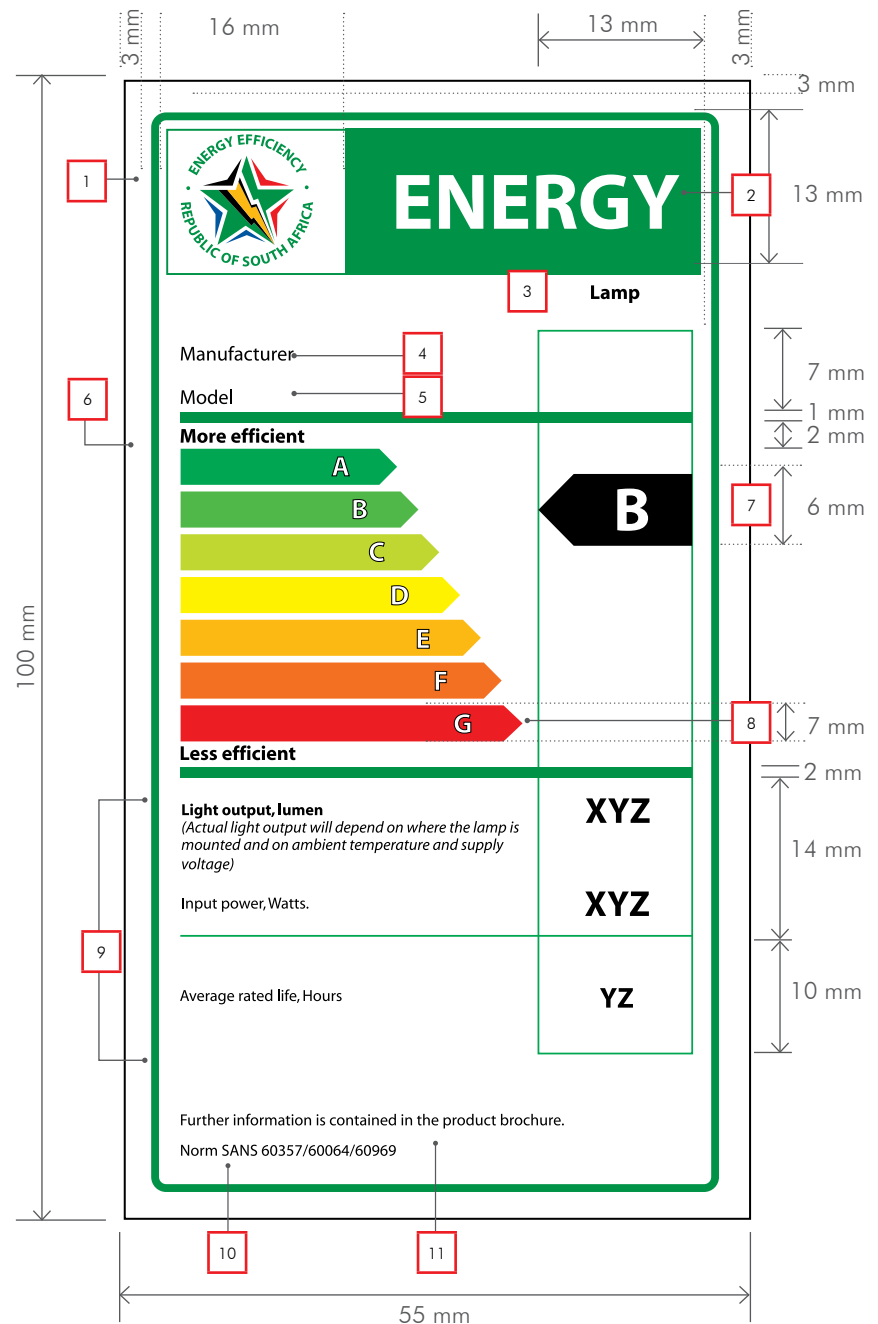
- Turn lights out when leaving a room, regardless of how long for and use one large bulb instead of several small ones in areas where bright light is needed
- Removing one light bulb from your garage door opener is a creative energy saving tip
- Use CFL bulbs. They produce about three to four times as much light per watt as incandescent bulbs. While they are initially more expensive, they last up to 10 times longer
- Use one large bulb instead of several small ones in areas where bright light is needed
- Turn on outdoor lights only when needed and install lights with motion detectors so they come on only when needed
- Use timers, motion detectors, heat sensors or photocell controls for light fixtures when possible

Actual dimensions

The design of the label shall be as in the figure below.

The following information shall be included in the label:

- 1 **Energy Efficiency logo:** Size: 11 mm in diameter.
Position: placed at the top left with sufficient white space around.
NB: For more information about the logo, please refer to page 10.
- 2 **Energy:** text: Myriad bold 20 pt, 100% white.
- 3 **Lamp:** text: Myriad bold 5 pt, 100% black.
- 4 **Manufacturer:** text: Myriad regular 5 pt, 100% black. **Data entered:** Myriad bold 5 pt, 100% black.
- 5 **Model:** text: Myriad regular 5 pt, 100% black. **Data entered:** Myriad bold 5 pt, 100% black.
- 6 **More efficient, Less efficient:** Myriad bold 5 pt, 100% black.
- 7 **Energy efficiency class**
Arrow: width: 30 mm, height: 14 mm, 100% black.
Text: Myriad bold 15 pt, capitals and white.
- 8 **A to G scale**
Arrow: height: 3.5 mm, gap: 0.6 mm
Text: Myriad bold 7 pt, capitals and white; '+' symbols: Myriad bold 7 pt, capitals, white, aligned on a single row.
- 9 **Appliance performance:** text: Myriad regular 4 pt/bold 4 pt/italic 4 pt, XYZ: Myriad bold 9 pt, 100% black. YZ: Myriad bold 7 pt 100% black.
- 10 **SANS:** text: Myriad regular 4 pt, 100% black.
- 11 **Further information is contained in the product brochure:** Text: Myriad regular 4 pt, 100% black.



STORAGE WATER HEATERS



Consumer general storage water heater tips

- Install a heat loop or in-line trap. If you add a new water heater to your home, consider having a heat loop or in-line trap installed. These mechanisms can be inexpensive to install and keep hot water from moving into the piping system when you are not using hot water. Ask your plumbing contractor for details
- Be sure to check your manufacturer's instructions for minimum water temperature
- Take a 5-minute shower instead of a bath (save water and electricity). If bathing, use as little water as possible



APPLIANCE

STORAGE WATER HEATERS (GEYSERS)

Understanding the South African geysers energy efficiency label



Example of vertical Storage Water Heater



The geyser is the highest consumer of electricity in the home, it guzzles 39% of your monthly energy usage, so it is important to keep water heating costs down by making smart heating choices – from choosing the most energy efficient geyser.

The label for electric geysers has an energy efficiency class range from A (being the most efficient) to G (the least efficient).

The size specifications for a geyser label is 110 mm wide and 200 mm high. If the label is printed in a different format, its content must nevertheless remain proportionate to the specifications above. For accurate dimensions please refer to the next page.



Consumer energy saving quick tips

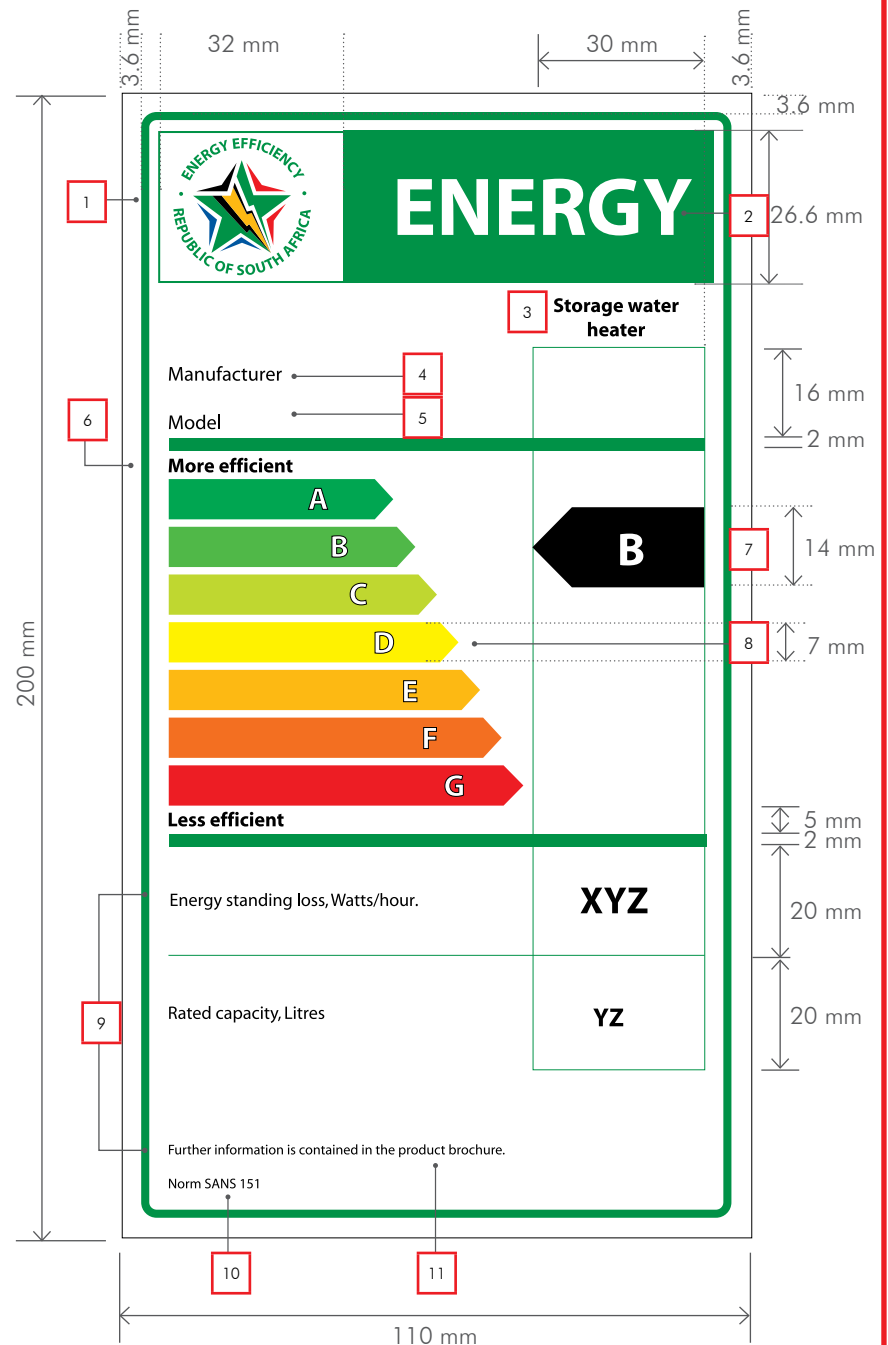
- Purchase the correct size geyser Consider your family's hot water needs. If your water heater is too large, it uses more energy than needed. If it is too small, you may run out of hot water
- Install your geyser near the kitchen. The kitchen is where you use the hottest water. When the water heater is located near the kitchen, hot water doesn't have to travel as far and less heat is lost
- Insulate the outside of your electric geyser with an insulation blanket to reduce heat loss. Also insulate water pipes with half-inch foam or pipe tape for insulation wherever pipes are exposed. On cold water pipes, insulate four to five feet nearest to the water heater
- Set the temperature thermostat of the geyser to the recommended 60°C, as the higher the setting the more energy is consumed

Actual dimensions

The design of the label shall be as in the figure below.

The following information shall be included in the label:

- 1 **Energy Efficiency logo:** Size: 30 mm in diameter.
Position: placed at the bottom right with 5 mm white space around.
NB: For more information about the logo, please refer to page 10.
- 2 **Energy:** text: Myriad bold 41 pt, 100% white.
- 3 **Storage water heater:** text: Myriad bold 10 pt, 100% black.
- 4 **Manufacturer:** text: Myriad regular 10 pt, 100% black. **Data entered:** Myriad bold 10 pt, 100% black.
- 5 **Model:** text: Myriad regular 10 pt, 100% black. **Data entered:** Myriad bold 10 pt, 100% black.
- 6 **More efficient, Less efficient:** Myriad bold 10 pt, 100% black.
- 7 **Energy efficiency class**
Arrow: width: 30 mm, height: 14 mm, 100% black.
Text: Myriad bold 23 pt, capitals and white.
- 8 **A to G scale**
Arrow: height: 7 mm, gap: 0.75 mm
Text: Myriad bold 15.45 pt, capitals and white.
- 9 **Appliance performance:** text: Myriad regular 9 pt.
XYZ: Myriad bold 19 pt, 100% black.
YZ: Myriad bold 13 pt 100% black.
- 10 **SANS:** text: Myriad regular 7 pt, 100% black.
- 11 **Further information is contained in the product brochure:** Text: Myriad regular 7 pt, 100% black.



AIR CONDITIONERS



Consumer general air conditioner tips

- Install a whole-house ventilating fan in your attic or in an upstairs window to help air circulate in your home. Although not a replacement for a central air conditioning system, a fan is an effective way to stay comfortable on milder days. Remember to cover and insulate it during the winter to prevent heat loss
- Don't set your thermostat at a colder setting than normal when you turn your air conditioner on. It will not cool faster, but it will cool to a lower temperature than you need and use more energy



Understanding the South African air conditioners energy efficiency label



Example of an Air Conditioner Indoor Unit

Example of an Air Conditioner Outdoor Unit



Many people buy or use air conditioners without understanding their designs, components, and operating principles. Proper sizing, selection, installation, maintenance, and correct use are key to cost-effective operation and lower overall costs.

The label for air conditioners uses an energy efficiency class range from A++ (being the most efficient) to E (the least efficient).

The size specifications for air conditioner label is 110 mm wide and 200 mm high. If the label is printed in a different format, its content must nevertheless remain proportionate to the specifications above. For accurate dimensions please refer to the next page.



Consumer energy saving quick tips

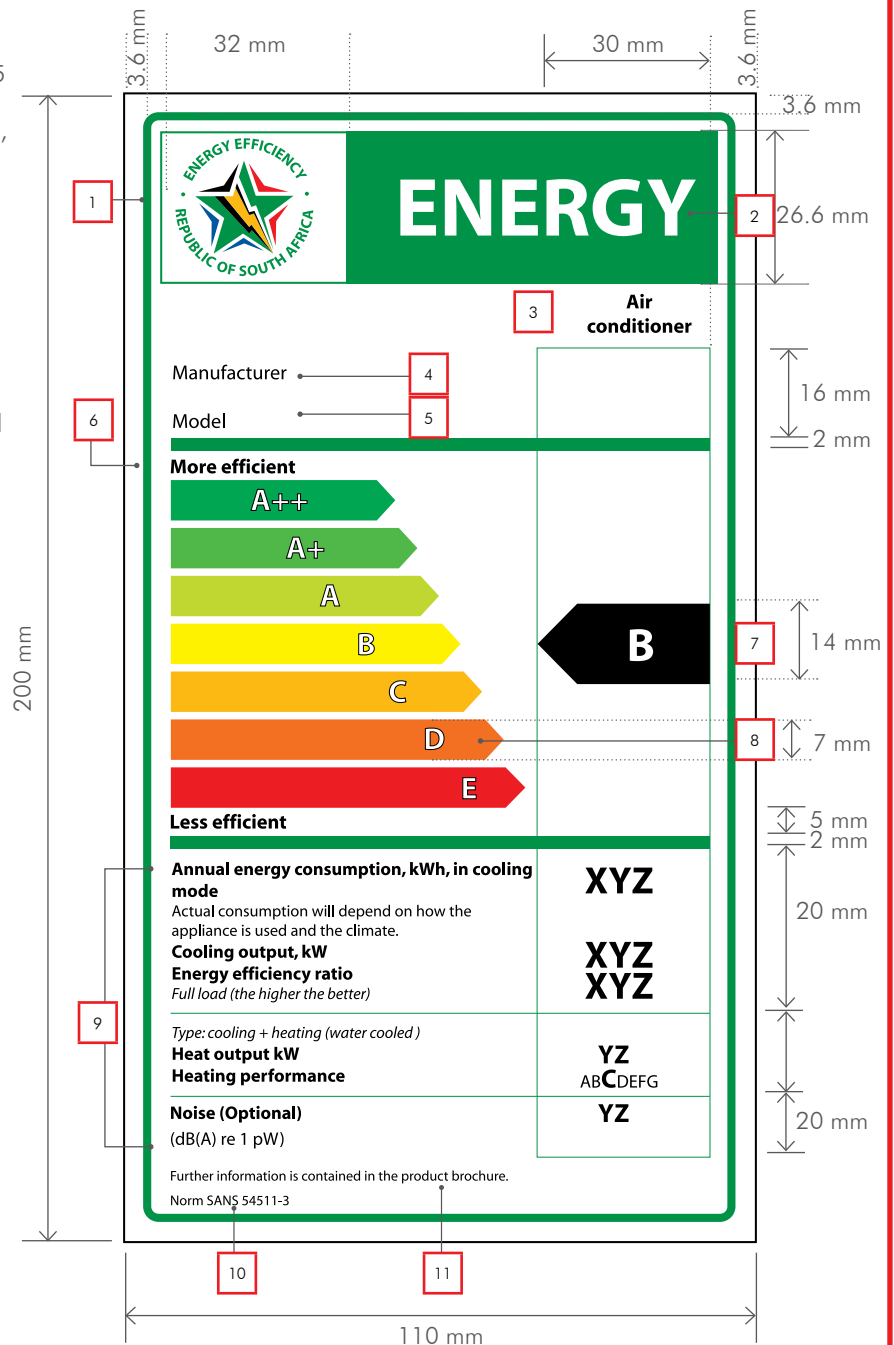
- Close drapes, blinds and shades to keep sun's rays out of the home during the warmer periods of the day
- When selecting a central air conditioning unit, be sure to choose one with the proper capacity and highest efficiency, don't oversize it
- Do not place lamps or TV sets near your thermostat. The thermostat senses heat from these appliances which can cause the air conditioner to run longer than necessary
- Replacing your old heating and cooling equipment with new, energy-efficient models is a great start. But to make sure that you get the best performance, the new equipment must be properly installed

Actual dimensions

The design of the label shall be as in the figure below.

The following information shall be included in the label:

- 1 **Energy Efficiency logo;** Size: 30 mm in diameter.
Position: placed at the bottom right with 5 mm white space around.
NB: For more information about the logo, please refer to page 10.
- 2 **Energy;** text: Myriad bold 41 pt, 100% white.
- 3 **Air conditioner;** text: Myriad bold 10 pt, 100% black.
- 4 **Manufacturer;** text: Myriad regular 5 pt, 100% black. **Data entered:** Myriad bold 5 pt, 100% black.
- 5 **Model;** text: Myriad regular 5 pt, 100% black. **Data entered:** Myriad bold 5 pt, 100% black.
- 6 **More efficient, Less efficient;** Myriad bold 10 pt, 100% black.
- 7 **A++ to E scale**
Arrow: height: 7 mm, gap: 0.75 mm
Text: Myriad bold 15.45 pt, capitals and white.
'+' symbols: Myriad bold 15.45 pt, capitals, white, aligned on a single row.
- 8 **Energy efficiency class**
Arrow: width: 30 mm, height: 14 mm, 100% black.
Text: Myriad bold 23 pt, capitals and white.
- 9 **Appliance performance;** text: Myriad regular 8 pt/bold 9 pt/italic 8 pt, 100% black.
XYZ: Myriad bold 19 pt 100% black.
YZ: Myriad bold 13 pt 100% black.
ABCDEFG: Myriad regular 9 pt, (C: 13 bold) 100% black.
- 10 **SANS;** text: Myriad regular 7 pt, 100% black.
- 11 **Further information is contained in the product brochure;** Text: Myriad regular 7 pt, 100% black.



OTHER TIPS!

Keeping cool in summer



Keeping the heat out!

To help you save energy and money, here are some answers to questions you may have about summer electric rates, energy use and steps you can take.

- Shade windows and skylights from direct sunlight by using external blinds, shutters or light coloured shade cloth
- Plant deciduous trees to shade windows in summer but let the sun in over winter
- Install security doors so cool air can flow through the house.
- Spend hot days in the coolest part of the house or only cool the room you're in, ideally one less exposed to hot sun
- Become a fan of fans: desktop, free-standing and ceiling fans costs much less per hour to run. A fan can use less than 5% of the energy compared to running a medium sized air conditioner for the same amount of time



Noncompliant products are dealt with in terms of Section 15 (1) and (3) of the NRCS Act. The sanctions available under the Act include recalling the products from the market, confiscating the batch of products concerned, destruction of the products, and returning the products to the country of origin or dealing with the products in such a manner as the Accounting Authority of the NRCS may consider fit.

For further information or to report noncompliance contact the NRCS on phone number +27 12 4828 700 or visit the regulator's website - www.nrccs.org.za

Keeping warm in winter



Keeping the heat in!

Everyone appreciates a warm, comfortable home during the cold winter months. Yet with escalating energy costs, many will find it a challenge to keep up with home heating bills this winter. Here are few tips on how to avoid high energy bills.

- Close doors and windows and only warm the part of the home you're in, so you're not burning money by heating the whole house
- Wear warm jumpers and socks: sometimes the old-fashioned ways are the best
- Set heating at 19-21°C: each 1°C increase in the temperature setting can increase energy use by 10% or more.
- Let the sunshine in: on sunny winter days, open curtains or blinds on north-facing windows and take advantage of free, natural warmth from the sun. Remember to cover up again when the sun has stopped shining to keep the heat in



OTHER TIPS!

Switch off your geyser

One simple action is needed:

Switch it off during peak periods – it is one of the most effective ways to reduce pressure on the national grid. A timer is a simple device that can be installed to assist you to automatically switch your geyser element off during peak periods. The geyser timer will be set to switch off by default between 6am and 8am as well as 6pm and 8pm on weekdays. Consumers may also ensure they are off the grid during the evening peak by manually switching off their geysers from 5pm to 9pm, or at least a portion of that peak period. **Here are some common myths about geysers and electricity supply:**



Myth: Switching off your geyser does not significantly reduce the overall peak demand for electricity.



Fact: The nearly 5,4 million electric geysers in South Africa contribute about 2,940MW of electricity to the evening peak, enough to free-up five units of a 'six-pack' power station or power a big city the size of Durban.



Myth: Switching a geyser off and on, uses more electricity than leaving it on permanently.



Fact: A geyser will not use more electricity if it is switched on and off. When a 150-litre geyser is switched off and stores its water at the thermostat set point, the water temperature decreases by approximately 10 °C over 24 hours (if no water is used during this period). If the geyser is switched back on, less electricity will be used to heat the water to its set point temperature than if it remained switched on.



Myth: Switching a geyser off and on, damages the thermostat.



Fact: Switching a geyser off and on, or using a timer to do the switching, will not damage the unit. A thermostat, by the nature of its operation, switches a geyser off and on throughout the day. The thermostat is designed to switch the element off and on continually which the timer will do.

Information supplied by:

Eskom, Kwikot, Franke
Water Heating Systems and
Hellermann Tyton

Visit www.eskom.co.za/idm for
more information.

References and glossary

References

- http://www.eskom.co.za/sites/idm/Documents/Energy_Saving_Essentials.pdf
- <http://www.which.co.uk/energy/saving-money/guides/energy-labels-explained/dishwasher-energy-labels/>
- https://en.wikipedia.org/wiki/Myriad_%28typeface%29
- http://www.pepco.com/uploadedFiles/wwwpepcocom/Pepco_HelpfulWaystoSave.pdf
- <http://www.nwu.ac.za/faculty-engineering-energy-saving-home-dishwasher>
- <http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32010R1061&from=EN>
- http://www.dcenr.gov.ie/NR/rdoonlyres/4D989FF3-B5BF-45B3-8118_798A230D777E/0/FAQsELDGeneralInformation20141006.pdf
- <http://www.smartgridsmartcity.com.au/~//media/Microsites/SGSC/Files/PDFs/Energy%20Efficiency%20handbook.pdf>
- <http://mygreenhome.org.za/wp-content/uploads/2014/06/Guide-to-Energy-Labels-for-appliance-theme-2-June-2014.pdf>
- <http://www.nrcan.gc.ca/sites/www.nrcan.gc.ca/files/energy/pdf/energystar/EnerGuideappliances.pdf>
- http://www.energystar.gov/ia/partners/publications/pubdocs/ENERGY%20STAR%20Appliances%20Brochure_508.pdf

Glossary

CFL	Compact Fluorescent Light
cm	Centimetres
CMYK	Cyan, Magenta, Yellow, Black
dB(A) re 1 pW	Decibels(A-weighted) expressed with reference to 1 pico Watt
EU	European Union
H	Hour
Kg	Kilogram
kWh	Kilowatt-hour
l	Litres
LED	Light-Emitting Diode
Min	Minute
mm	Millimetres
MW	Megawatts
°C	degree Celsius
P/A	Per annum
RPM	Revolutions per minute
SANS	South African National Standards

COMPLAINTS

Where to complain



For any complaints pertaining to inaccessibility of listed products, standards relating to consumer protection, general consumer information and unfair marketing and business practices please contact the National Consumer Commission (NCC).

The NCC's Head of Enforcement can be contacted as below:

Tel Number: +27 12 761 3000

Email: complaints@thencc.org.za

Address: 08 Bauhinia Road, Block 10, Berkley Office Park, Techno Park, Centurion

Website: www.thencc.gov.za





Switchboard: +27 12 406 8000



Physical Address: 192 Visagie Street,
Corner Paul Kruger & Visagie Street, Pretoria



Postal Address: , Private Bag X96, Pretoria,
0001



Website: <http://www.energy.gov.za>



General Inquiries: info@energy.gov.za



energy

Department:
Energy
REPUBLIC OF SOUTH AFRICA



GLOBAL ENVIRONMENT FACILITY
INVESTING IN OUR PLANET



*Empowered lives.
Resilient nations.*



the dti

Department:
Trade and Industry
REPUBLIC OF SOUTH AFRICA