Guidelines

for manufacturers and importers who produce, import and/or sell tumble dryers.



If you produce, import and/or sell tumble dryers, please be aware of the ecodesign and energy labelling requirements

Energy label and ecodesign

The EU commission introduced ecodesign and energy labelling regulations for household tumble dryers in 2012 to support energy and resource efficiency. Both regulations include obligations for suppliers. The regulations were updated in 2023 with new requirements, which are already fully applicable. Both regulations were amended in the meantime.

Important regulations to be aware of:

- **Ecodesign regulation (EU) 2023/2533 (+ (EU) 2025/2262)**
  Sets minimum performance requirements on tumble dryers such as energy efficiency and condensation efficiency, etc. Regulation (EU) 2025/2262 amends (EU) 2023/2533.

- **Energy labeling regulation (EU) 2023/2534 (+ (EU) 2025/1353)**
  Guides consumers to choose more energy efficient products by providing standardised energy related information within promotional material, physical stores and online shops as well as on the EPREL product database. The central documents are energy labels and product information sheets. At the same time, it encourages manufacturers to innovate and adopt more efficient technologies. Regulation (EU) 2025/1353 amends (EU) 2023/2534 and will be fully applicable by begin of 2027. The main change is the inclusion of a repairability score and classes also affecting the design of the energy label.

Which products are covered?

The regulations cover household tumble dryers.

In detail, the regulations include:

- Electric mains-operated tumble dryers:
  - Condenser dryers with heat pump or heat element.
  - Air-vented dryers.
  - Gas-fired dryers.
- Free standing and built-in household tumble dryers (all shell types included).

Moreover, the regulations apply to:

- Multi-drum household tumble dryers.
- Electric mains-operated household tumble dryers that can also be powered by batteries.

The regulations do not apply to:

- Household washer-dryers and household spin-extractors (are in the scope of the washing machine regulations).
- Tumble dryers in the scope of Directive 2006/42/EC.
- Battery-operated household tumble dryers – even if they can be connected to the mains through an AC/DC converter purchased separately.

Ecodesign reguirements at a glance

Regulation (EU) 2023/2533 introduced – compared to the regulation of 2012 – some additional types of requirements as shown in the table below. The provisions have been applicable since the 1st of July 2025.

The new ecodesign regulation (EU) 2023/2533	The old ecodesign regulation (EU) 932/2012
Specific requirements for low power mode consumption	——
Availability of a supplier's free access website	——
Availability of spare parts, repair and maintenance information	——
Requirements on circumvention	——
Requirements on software updates	——
Minimum energy efficiency	
Minimum condensation efficiency for condenser dryers	
Maximum final moisture content	
Naming and functionalities of programmes	
User manual	

Amendment (EU) 2025/2262 has been applicable since November 2025. It did not introduce new topics but corrected or improved several provisions.

Energy labelling requirements at a glance

The energy labelling regulation (EU) 2023/2534 applying since the 1st of July 2025 introduced a new energy label design with a range of energy efficiency classes from A to G. For its detailed content see page 3. Additionally, the 'Product Fiche' has been updated and renamed as the 'Product Information Sheet,' with some modifications to its content.

Disclaimer. This guideline does not replace the text in the regulations. Furthermore, this guideline contains interpretations and when in doubt, it is the regulation that applies. This guideline is not legally binding, as a binding interpretation can only come from the European Court of Justice.

COMPLIANCESERVICES

Co-funded by the European Union

What are the key provisions in the **ecodesign** regulation?

Energy Efficiency
The EEI requirement leads to a market ban of air-vented dryers and condenser dryers with a heat element above 3 kg capacity, i.e. they could not be placed on the Union market since the 1st of July 2025.

Condensation Efficiency
The minimum condensation efficiency is 80%.

Low Power Mode
- Off-mode: 0,5W (after 9 May 2027: 0,3 W) ; this is the only provision of the regulation that is not yet applicable.
- Standby-mode: 0,5W (1W with info or status display; 2W with network standby).
- Delay start: 4W plus max. time: 24h.

Naming of programmes
The “eco” programme is the reference programme for compliance assessment and verification.

Resource efficiency
Suppliers must make spare parts available to professional repairers. Please see the list of mandatory spare parts in Annex II, 5, (1) (a).
- Spare parts must be available for at least 10 years after placing the last unit of the tumble dryer model on the market and within 15 working days after order receipt.
- The list of spare parts, the procedure how to order all spare parts and repair instructions for the spare parts available to consumers must be available on a free-access website.
- The spare parts must be replaceable with non-proprietary tools and without permanent damage to the tumble dryer.
- You must provide an indicative pre-tax price list of the spare parts on a free-access website.

Circumvention
Tumble dryers shall not:
- Alter their behaviour or properties during testing so that any declared value improves compared to normal operation.
- Shortly after being put into service change their properties that worsens any declared value.

Software Updates
- Free software and firmware updates must be available for at least 10 years after placing the last unit of the tumble dryer on the market.
- Software/firmware updates must not worsen any declared value.
- A rejection of software/firmware updates must not worsen any tumble dryer’s declared value either.

Supplier’s website
A free access website (i.e. no payment or registration/login is required) of the supplier must contain:
- A list of spare parts incl. indicative pre-tax prices in Euro, the procedure for ordering the parts and the repair instructions for spare parts available to the consumer.
- A copy of the user manual or the information available in the user manual.

Please find the full description of the requirements in the regulation (EU) 2023/2533. or on the Compliance Services web portal.

If you need information on the exact timing of the ecodesign regulation or a more detailed overview of the changes between (EU) 932/2012 and (EU) 2023/2533, please consult our Quick Guide of 2025 available here.

The most important **energy labelling requirements**

The following requirements are essential elements of the regulation and have to be fulfilled by manufacturers, importers and legal representatives of products placed on the EU market from the 1st of July 2025 onwards. Please investigate the regulation or our guideline on the Compliance Services portal to gain complete understanding of the applicable rules.

Provision of the label


- A correct and complete energy label must be delivered to dealers electronically and physically. On information material a nested display (the energy efficiency class and the range of energy efficiency classes available on the energy label) shall be shown. See arrow templates here.
- The label data must be entered into the EPREL database.

Provision of the product information sheet (PIS)
- A correct and complete PIS must be delivered to dealers electronically and on request also physically.
- The PIS data must be entered into the EPREL database.

Provision of the labelling technical documentation
- A correct and complete technical documentation must be entered into EPREL (the declared values).

User manual and other literature
- A reference to the EPREL entry of the product must be included in the user manual and any other written or pictorial information provided with or on the product, either as URL, QR code or the EPREL registration number.

What is a supplier?

- A manufacturer in the EU that manufactures products for the EU market.
- Authorised representative in the EU on behalf of a company outside of the EU.
- An importer, who imports products into the EU and places them on the EU market.
- A dealer who places products on the market under its own brand.

Energy label and PIS are generated via templates in EPREL. The new regulation also includes templates for the technical documentation within EPREL. Please note that

- some of the parameters only apply to specific types of tumble dryers; you have to make sure that you fill out all applicable values; otherwise, the PIS or even the energy label generated by EPREL can be wrong.
- you are fully responsible for the correctness of the values.

Product information sheet (PIS)

The product information sheet, formerly called “product fiche”, is a detailed technical description of properties of the product. The content of the new PIS was changed. When you enter your product in EPREL, there will be an entry mask where you have to insert the values.

What to pay attention to, regarding documentation?

CE-marking and Declaration of Conformity (DoC)

As a manufacturer or importer, it is your responsibility to ensure that the tumble dryer has a CE marking before being placed on the EU market. You must also prepare a declaration of conformity (DoC), which states that the tumble dryers comply with all the requirements in all regulations applicable to the product. The specific reference numbers of the regulations must be mentioned in the DoC.

Technical documentation

As a manufacturer or importer, you must provide the technical documentation that proves that the tumble dryer complies with the ecodesign and energy labelling regulations.

The technical documentation must include:

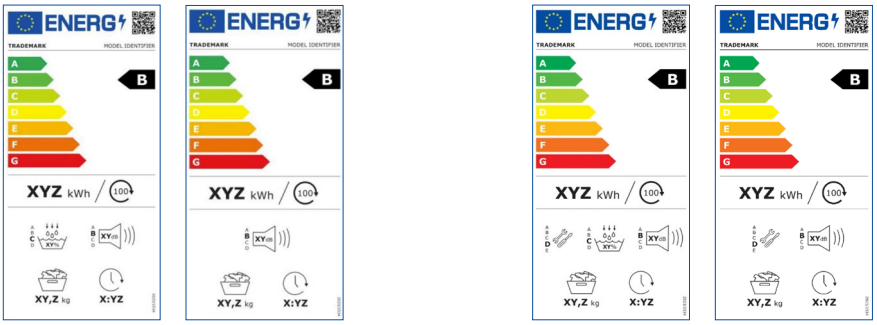
- DoC
- Copies of the calculations used to determine the tumble dryers’ energy efficiency index and regarding the condenser tumble dryers: The condensation efficiency.
- The results of the conducted measurements. However, the results can also be based on calculations, extrapolations, etc. based on measurements of equivalent tumble dryer models. The method must be described in detail.
- A list of all equivalent models, meaning tumble dryers with identical technical parameters.

Furthermore, the technical documentation must also for example include information, which harmonised standards and/or other technical standards and specifications have been applied.

The technical documentation must be prepared before the product has been placed on the market. When the last unit of the product is placed on the market, the technical documentation must be stored for additional five years, what concerns the energy labeling requirements and for 10 years regarding ecodesign requirements.

The content of the energy label

By amendment (EU) 2023/1353, the repairability class was added to the energy label. For units placed on the market before 2027, the use of the energy label including repairability class is voluntary, but it is mandatory for all products placed on the market in 2027 or later.

Content	New energy labels from the 1st of July 2025, (EU) 2023/2534	Energy labels from the 1st of January 2027 including information on repairability (amendment (EU) 2025/1353)
Label design		
QR code	Link to EPREL entry	
Efficiency classes	Classes A to G	
Energy consumption	Shown in kWh per 100 drying cycles (without low power mode consumption)	
Condensation efficiency	Classes A to D and indication as percentage	
Noise Level	Noise level for the eco-programme in dB (A) plus indication of 4 classes A to D	
Rated capacity	Shown in kg for the eco programme	
Duration of the energy saving programme	Energy saving programme designated as the eco-programme at full load. Duration shown in h:mm.	
Repairability class	No indication of the repairability class	Repairability class shown with a range from A to E

Requirements for technical promotion material and advertisements



Technical promotion material or advertisements concerning a specific tumble dryer that describes or mentions specific technical parameters and/or other information, that identifies the product must also include the energy efficiency class and the range of energy efficiency classes available on the label. An example is shown above.

The graphic files can be downloaded here:
https://circabc.europa.eu/ui/group/7f4824e3-f72c-4126-b6b8-842a4443a4ca/library/17bc1987-e20e-49d5-a847-f7e28070c23b/details

Market surveillance

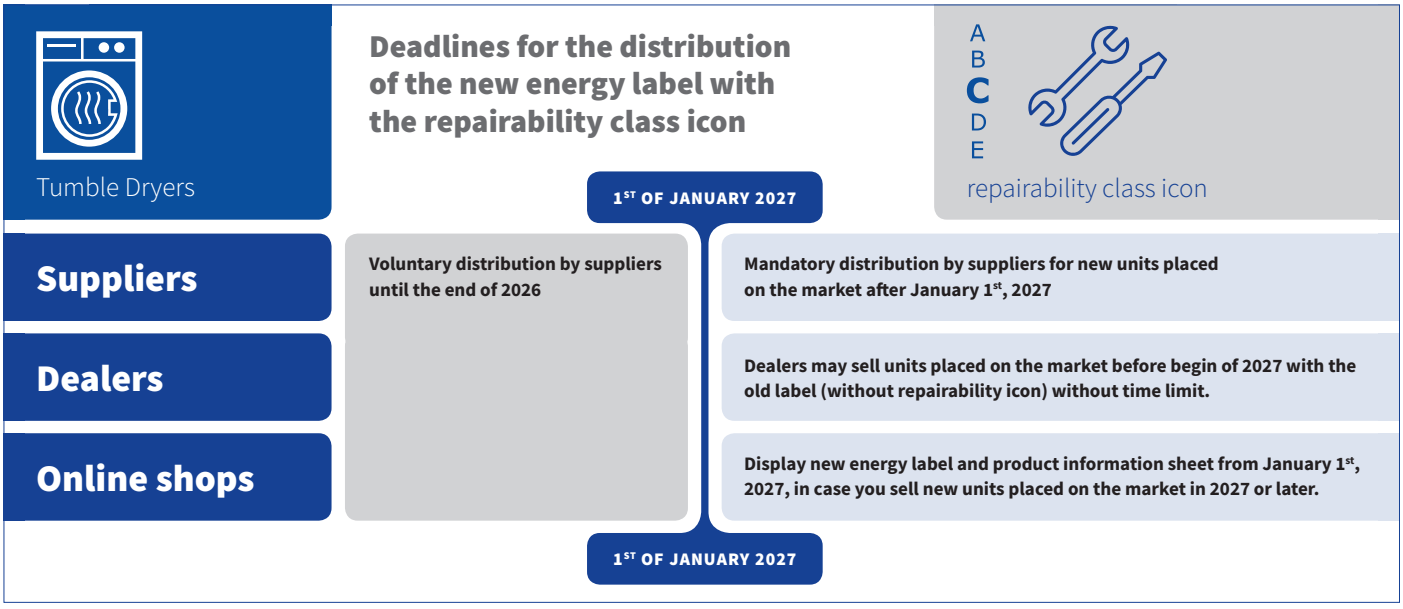
The national market surveillance authorities (MSAs) verify, whether products on the EU market comply (among others) with the ecodesign and energy labelling requirements. As far as the documentation is not available in EPREL, you have to make it available within 10 working days.

MSAs will check the documentation and are able to enforce non-conformities. They can demand an amendment of documentation, apply fines, remove products from the EU market, etc.

In order to verify the declared values, MSAs can also perform physical tests.

- If the first unit does not comply, MSAs may test three more units.
- If one of the three dryers does not comply with the requirement on the final moisture content or if the average of the three test results of any parameter does not comply with the minimum requirements, the tumble dryer must not be sold on the EU market anymore. If only the declared values are outside the tolerance, a change of documentation should suffice.
- Whether you have to pay for the units and the tests, depends on the national legislation.

The inspection procedures are the same for both regulations.



Where to find more information?

You can find more information about ecodesign and energy labelling at the CS website: www.product-compliance-services.eu. Among others, you can find:

- More detailed information about the ecodesign and energy labelling requirements for tumble dryers.
- E-learning and webinars on how to understand and fulfil the ecodesign and energy labelling requirements.
- Measurement methods and standards.
- The findings of previous market surveillance actions, where similar mistakes have been detected frequently.

COMPLIANCESERVICES

Compliance Services project is co-funded by the LIFE programme under contract n. 101120843.
Co-funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or CINEA.
Neither the European Union nor the granting authority can be held responsible for them.