





How to comply with energy labelling and ecodesign regulations for professional refrigerated storage cabinets

An EEPLIANT2 webinar In association with EFCEM

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About EEPLIANT2

- Aim: to increase rates of compliance
- Delivered by Market Surveillance Authorities from 14 EU states
- Coordinates monitoring, verification, and enforcement actions for:
 - Professional refrigerated storage cabinets
 - Household refrigerating appliances
 - Network standby of equipment
- Runs September 2017 to April 2020
- Managed by PROSAFE (the EU association for market surveillance professionals)
- Funded by the EU under the Horizon 2020 framework

Web: http://eepliant.eu Twitter: @EEPLIANT

LinkedIn: https://www.linkedin.com/company/eepliant







EEPLIANT2 achievements so far

- Tools that help authorities check technical documentation, completed on 59 appliances
- Lab testing well underway on 28 appliances
- Enforcement actions secured or underway for non-compliances
- Capacity building for inspectors sharing best practice
- Helping suppliers to understand requirements

All to improve rates of compliance and protect the interests of reputable suppliers

http://eepliant.eu











Agenda

- 1. Why the requirements are important
- 2. Which regulations exactly?
- 3. Scope of appliances
- 4. Overview of obligations
- 5. Common non-compliances
- 6. What a market surveillance inspector will ask you
- 7. Energy label requirements in more detail
- 8. Ecodesign requirements in more detail
- 9. FAQs and Q&A







This is only guidance to help alert you to the existence of legal obligations.

Only the texts of the EU regulations themselves have legal force.

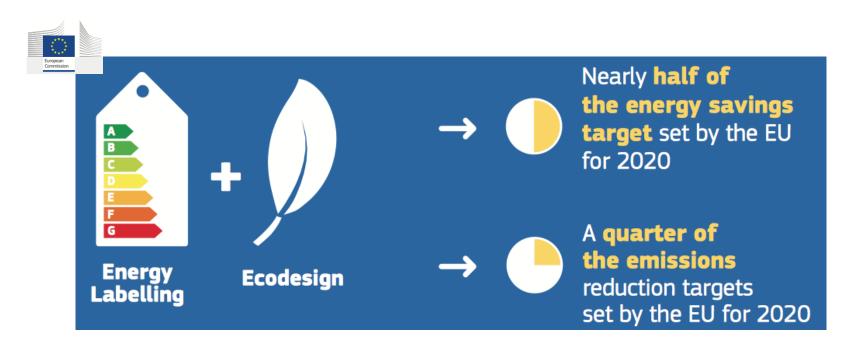
You must make your own decisions regarding compliance.







Why the requirements are important



Source of both quotes: European Commission flyer on Ecodesign and Energy Labels, November 2016 Further figures from: Ecodesign Impacts Accounting, Status September 2016 (VHK for the Commission)







Why the requirements are important

- Label shows cabinet performance (& benefits)
- Comparable consumption on fair basis (kWh/year)
- Save running costs every day; lifetime net savings
- Confirms can hold temperature at rated conditions
- Route to remove cabinets that can't perform
- Regulations are enforced (ban in one member state = ban in all!)

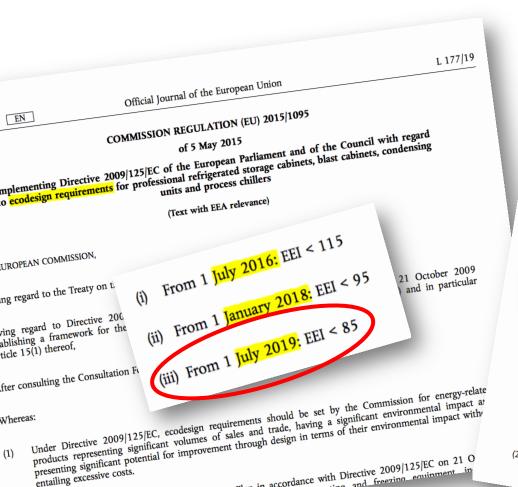


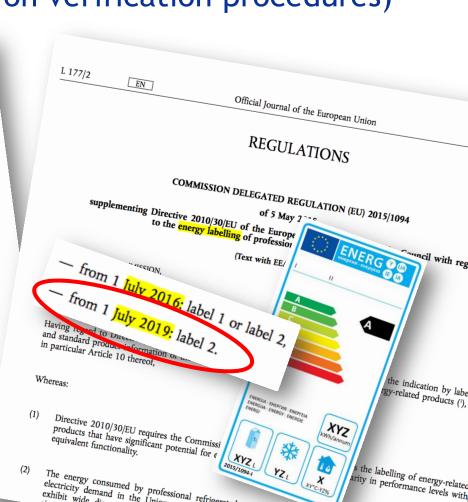




Which regulations, exactly?

Ecodesign: 2015/1095 and Energy Labels: 2015/1094 (plus their 2016 amendments on verification procedures)











Which regulations, exactly? These are also relevant:

- Energy labelling framework: Regulation 2017/1369 - includes EPREL database
- Ecodesign framework: Directive 2009/125/EC
- Accreditation and market surveillance: Regulation 765/2008
- Common framework for the marketing of products:
 Decision 768/2008/EC

Tip: See 'The Blue Guide' (European Commission)







Scope for professional storage cabinets, energy labels and ecodesign

Integral cabinets for chilled (-1°C to +5°C) or frozen (<-15°C) storage of foodstuff in *non-household* environments

Not for display of food to, or access by, customers

Out of scope, examples:

- Remote cabinets
- Static air cabinets
- Saladettes
- Bottle coolers above 5°C

In scope, example:

Cabinets with glass doors



https://ec.europa.eu/energy/sites/ener/files/guidelines_2018_refrigerated_storage.pdf









Overview of obligations

(not a complete list!)

Check manufacturer has Design to meet requirements IMPORTER, done their role Check requirements are met **MANUFACTURER** Prepare technical documentation Make available the label IF MANU-Provide energy label and fiche and fiche **MUST FACTURER** Mark product with their IS OUTSIDE name & details Have access to technical EU, MUST documentation THE SUPPLIER WITHIN THE EU **Register product** (MANUFACTURER on EPREL database OR IMPORTER) (since January 2019) **MUST** Have a Declaration of Conformity **DISTRIBUTOR /** Check requirements are met Display (or make available) **DEALER MUST**

the label and fiche







Some common non-compliances (many and varied!)



- Incomplete documentation provided (!)
- Error in calculation of energy label class
- Instruction manual advice missing (energy efficiency tips; volume(s); label class; refrigerant info)



- Net volume lower than declared
- Higher energy consumption than declared
- Cannot attain temperature at rated conditions







What a market surveillance inspector will ask for:

- Declaration of Conformity
- The energy label and its product information sheet
- The technical documentation file that confirms all declared parameters
- May obtain an appliance and test it

DoC must identify:

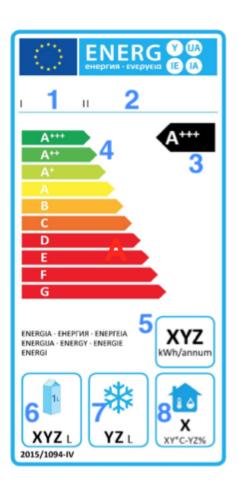
- All relevant legislation
- Manufacturer and product
- The harmonised standards or other technical specifications
- Some other information (see 'The Blue Guide')







Energy label requirements



- 1 = Supplier's name or trade mark
- 2 = Supplier's model identifier
- 3 = The declared energy efficiency indicator
- 4 = Must show up to A+++ from 1 July 2019
- **5 = Annual electricity consumption in kWh per year**
- 6 = The sum of the net volumes (litres) chilled compartments
- 7 = The sum of the net volumes (litres) frozen compartments (and multi-use)
- 8 = The rated climate class:
 - **❖** 4 = standard duty 30°C-55%
 - **❖** 5 = heavy duty 40°C-40%
 - ❖ 3 = light duty 25°C-60%







Energy label requirements: The product specification sheet ('fiche')

ANNEX IV

Product fiche

- 1. The information in the product fiche of the professional refrigerated storage cabinet shall be provided in the following order and shall be included in the product brochure or other literature provided with the product:
 - (a) supplier's name or trade mark;
 - (b) supplier's model identifier;
 - (c) type of model in accordance with the definitions in Annex I;
 - (d) the energy efficiency class and energy efficiency index of the model, determined in accordance with Annex II;
 - (e) where the model has been awarded an 'EU eco-label' under Regulation (EC) No 66/2010, that information may be included;
 - (f) the energy consumption of the cabinet over 24 hours (E24h) and the annual energy consumption in kWh, calculated in accordance with Annex IX and rounded to the nearest integer;
 - (g) net volume of each compartment;
 - (h) climate class in accordance with Table 3 in Annex IX;
 - (i) for light-duty cabinets, the following sentence: 'This appliance is intended for use in ambient temperatures up to 25 °C and therefore is not suitable for use in hot professional kitchens';
 - for heavy-duty cabinets, the following sentence: 'This appliance is intended for use in ambient temperatures up to 40 °C'.







Energy label requirements: The EPREL Database



European product database for energy labelling

As of 1 January 2019, suppliers (manufacturers, importers or authorised representatives) need to register their appliances, which require an energy label in the European Product Database for Energy Labelling (EPREL), before selling them on the European market.

Product information to be entered in the database relates to the energy label, technical documentation and compliance monitoring.

Suppliers need a <u>EU LOGIN account</u> before starting registering their products.

The <u>EPREL guidelines</u> explains how to manage the entire registration process. <u>EPREL generates</u> all necessary energy labels.

Register a product in EPREL >

- Registration is mandatory for professional refrigeration
- Since January 2019, must be completed before placing the product on the market
- If first sold before 2019 and cabinets of that model are entering the EU supply chain then the model must be registered!
- Products that have sat in supply chain since August 2017 also had to be registered by end of June 2019.

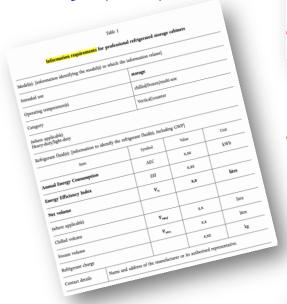






Ecodesign main requirements

Must meet minimum efficiency (EEI)



(i) From 1 July 2016: EEI < 115

(ii) From 1 January 2018: EEI < 95

(iii) From 1 July 2019: EEI < 85

* EEI < 115 for heavy duty (CC5)

 Specified information in instruction booklet

- Specified information on free access website
- b) From 1 July 2016, for professional refrigerated storage cabinets a section of the free access websites of manufacturers for installers and other professionals, their authorised representatives, or importers shall be provided, containing information relevant for:
 - (i) installation in order to optimise energy efficiency of the appliances;
 - (ii) non-destructive disassembly for maintenance purposes;
 - (iii) disassembly and dismantling for disposal at end-of life.







Another ecodesign requirement: The Technical Documentation File

- > Must be made available to authorities on request
- Must contain sufficient details for accuracy of product information (label, fiche) to be assessed
- Must contain specific items as per ecodesign regulation, plus:
 - A general description of the product
 - Results of design calculations
 - Any test reports
 - Any environmental assessment studies
 - List of technical standards (e.g. EN16825)
 - The CE Declaration of Conformity
 - A list of 'equivalent models'







Some FAQs about regulations and compliance

- Which test method?
- Must every cabinet model be tested?
- Won't energy labels be only A to G classes soon?
- Must labels be displayed at HOST 2019?

Any other questions or comments?







Further information sources

- Commission web pages
- DG GROW FAQ document
- The Blue Guide
- Recording of the webinar









Further information sources

• EEPLIANT2 / EFCEM brochure (soon!)









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