



Compano Online Software

EPREL Classification COS PIM

version 1.5

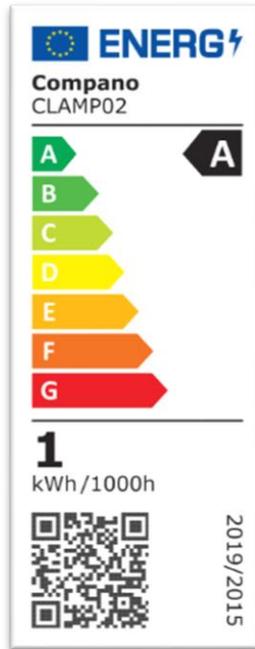
File	COS_PIM_Manual_EPREL_Classification_L03.docx
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1 Introduction

This manual describes the setup and implementation of the *European Product Database for Energy Labelling* (EPREL). EPREL has been set up to provide energy efficiency information to consumers. The EPREL database is publicly accessible and can also be used by manufacturers to print mandatory Energy Labels for use with their products:



Compano offers the option of entering EPREL information into the Compano application and uploading this information to the EPREL database via export of a compressed data file.

The EPREL system is added to the application as a *classification system* with specific EPREL product modules (class) and corresponding product features.

Thereafter, products can be classified according to this EPREL classification. Some additional text variables, attachments (Technical documentation) and EPREL-specific fields need to be added as well.

Once complete, product model(s) can be exported using a custom EPREL classification export. The resulting compressed EPREL-export file can then be offered to the EPREL production site.

1.1 Concepts

EPREL

The European Product Database for Energy Labelling (EPREL) has been set up under EU Regulation 2017/1369, to provide important *energy efficiency information* to consumers. It is a *legal requirement* for suppliers (manufacturers, importers or authorised representatives) to register products on EPREL before placing them on the EU Market.

Dedicated application

Compano Online Software application which is not shared with other customers and which will allow customer-specific implementation of UDFs, multi-model classification, etc. A dedicated application is required to enter EPREL information.

Multi-model classification

As EPREL is added to the Compano application as a classification system, a multi-model license is mandatory.

Customer-specific classification

An existing classification system, such as ETIM or EPREL, can be expanded with its own groups, classes or features. Each new EPREL product model needs to be added as a new class, including its corresponding EPREL features. To fully implement EPREL, customer-specific data has to be added to the EPREL classification and therefore this license is mandatory.

1.2 Background

The European Product Database for Energy Labelling (EPREL) has been set up under EU Regulation 2017/1369, to provide important *energy efficiency information* to consumers. It is a *legal requirement* for suppliers (manufacturers, importers or authorised representatives) to register products on EPREL before placing them on the EU Market.

The products concerned include:

- Air conditioners
- Cooking appliances (domestic)
- Dishwashers (domestic)
- Space and water heaters
- Light sources
- Refrigeration (professional and domestic)
- Solid fuel boilers
- Televisions
- Tumble dryers
- Tyres
- Ventilation units (domestic)
- Washing machines (domestic)

The EPREL database requires input of product information by a supplier under the following headings:

- Energy label
- Technical documentation
- Compliance information

The information which will be shown on the *public part* of the European Product Database by the supplier is as follows:

- The *name or trademark*, address, contact details and other legal identification of the supplier
- The *model identifier*
- The *label* in electronic format
- The *energy efficiency class* and other details from the label
- Details from the *product information* sheet in electronic format

The additional information to be entered in the *compliance part* of the database by the supplier is as follows:

- The *model identifier of all equivalent models* already placed on the market
- The *technical documentation*:
 - A general description of the model, such that it can be clearly and easily identified.
 - References to the harmonised standards applied or other measurement standards used.
 - Specific precautions that shall be taken when the model is assembled, installed, maintained or tested.
 - The measured technical parameters of the model.
 - The calculations performed with the measured parameters.
 - Testing conditions as applicable.

Prior to product registration, a *EU LOGIN* account with 2-factor verification needs to be created. Thereafter, the product information can be entered through the EPREL online user interface or by XML-import.

1.3 EPREL sites

The EPREL database is available as:

- A public site : <https://eprel.ec.europa.eu/screen/home>
- A production site (members only): <https://energy-label.ec.europa.eu>. Site used for entering product models. Product models will be published to the public site after a 24 hour delay.
- An acceptance site (also for non-members): <https://energy-label.acceptance.ec.europa.eu/compliance>. Site used to try-out the EPREL system.

1.4 EPREL wiki

More information can be found on the EPREL wiki:

<https://webgate.ec.europa.eu/fpfis/wikis/pages/viewpage.action?spaceKey=EPREL&title=EPREL+Guidelines>

2 Setup

As EPREL data is entered as classification data, the following set up is required:

Dedicated COS application with the following licensed modules:

- Export EPREL
- Customer-specific classification model
- Multi-model classification

For more information and a quotation, please contact sales@compano.com.

3 Implementation

Before you can upload EPREL data, the following setup steps need to be taken:

3.1 EPREL account setup

For uploads to the EPREL database, a (Compano) customer will need to apply for an EPREL account. This is an action to be arranged by the customer with EPREL.

Note: You will need to register your organisation¹ *and* provide a Contact Reference. When exporting EPREL data in COS, the Contact Reference can be set to either your organisation or a person, however EPREL demands you register a person as contact reference.

3.2 COS application setup

EPREL data is entered as classification data, according to specific EPREL classes, features, values, etc. This classification system needs to be added to the COS environment by a Compano consultant.

At the moment², only a limited number of EPREL classes are available. Additional EPREL classes can be entered on request, however this is a *fee-based service*. Please contact our Sales department should you wish to add any EPREL class: sales@compano.com.

4 Filling out EPREL classification

Filling out EPREL classification for products is similar to filling out standard (ETIM) classification, with two exceptions:

- Text variables
- Technical documentation

For an explanation of standard classification, please see the *Manual Classification* on the Compano [Help website](#).

Note: As an alternative to filling out classification, user-defined fields can be *mapped* to EPREL class features and values. Using this method, a user-defined field could possibly be mapped to both ETIM and EPREL classification and thus be a timesaver.

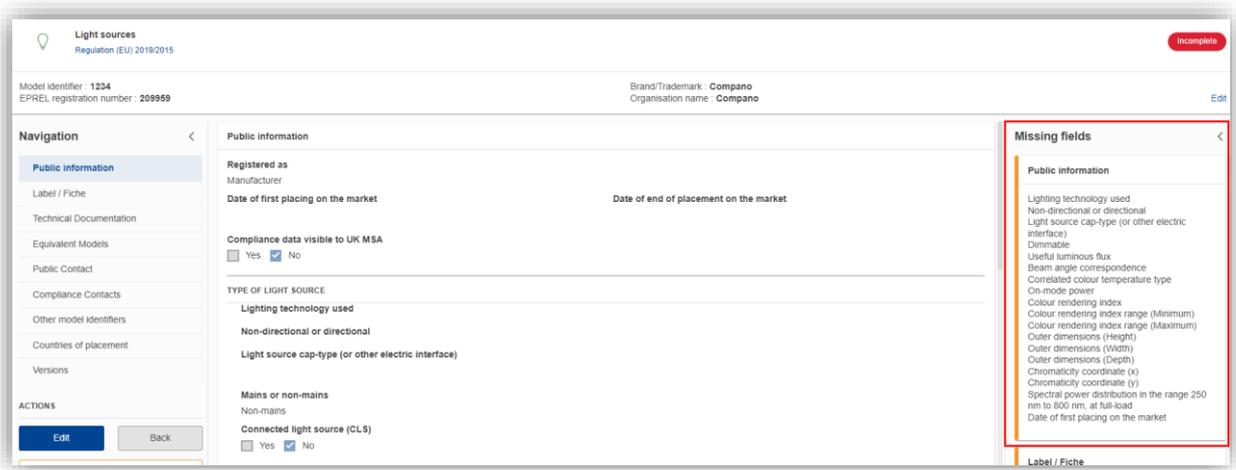
For an explanation of mapping user-defined fields, please see the *Manual Mapping User-defined Fields* on the Compano [Help website](#).

4.1 Help with EPREL classes

When first introducing a (new) product line to EPREL, it is often easier to fill out the classification of the *first product* using the EPREL web-interface. This way, it becomes clear which features are important. Also, after saving the product information, the EPREL interface will indicate which data fields are still missing:

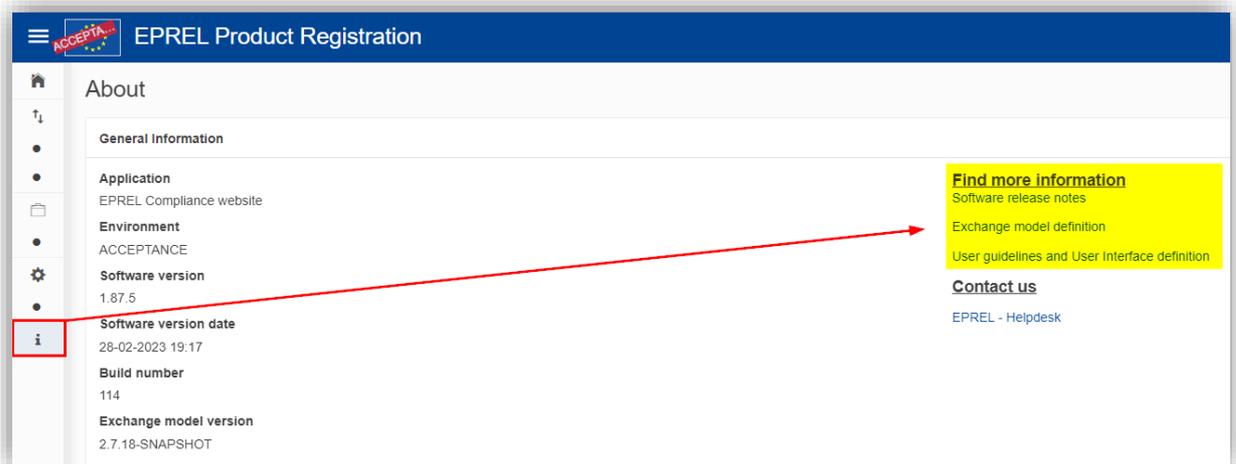
¹ Note that the **Brand** in COS needs to be consistent with the **Product Brand** in EPREL.

² 16-12-2022



4.1.1 Online help

More information about EPREL Models, User Guidelines and the User Interface can be found on the EPREL website:



4.2 Fill out text variables

Some EPREL class features allow for entering a *free text*. However, usually the number of texts in practical use is limited per customer. These texts can be added as Alphanumeric Feature Values to the corresponding EPREL Feature.

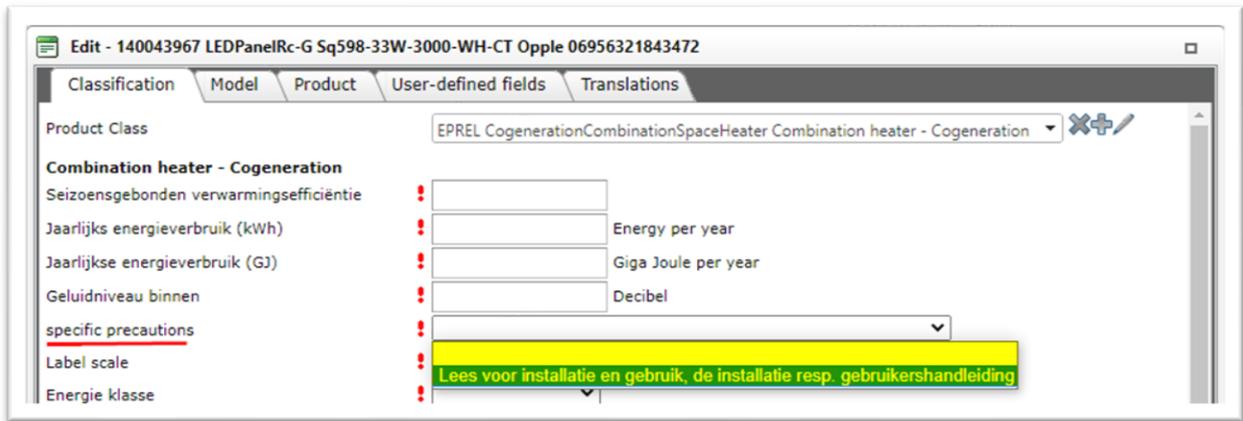
Important: For correct handling of 'free text' variables, these need to be added as an alphanumeric value of format: **EPREL_T##**. For instructions on how to add these variables see paragraph [4.2.1 LINK TEXT VALUES](#).

For example, the Product Class **UnidirectionalVentilationUnit**, contains a Product Class Feature **Instructions to install**. This feature could contain values such as:

```
EPREL_T01  See installation manual at www.company.com/manuals
EPREL_T02  Not applicable
```

Note: These text fields can have translations; it is recommended to directly fill out the translation fields for **nl**, **en**, **de** and any other languages that your customers will need.

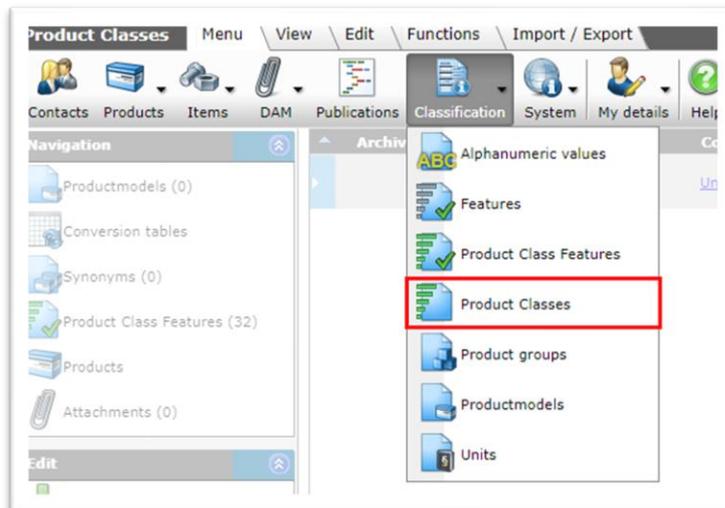
These values will be presented as a *drop-down list* with the corresponding EPREL Feature:



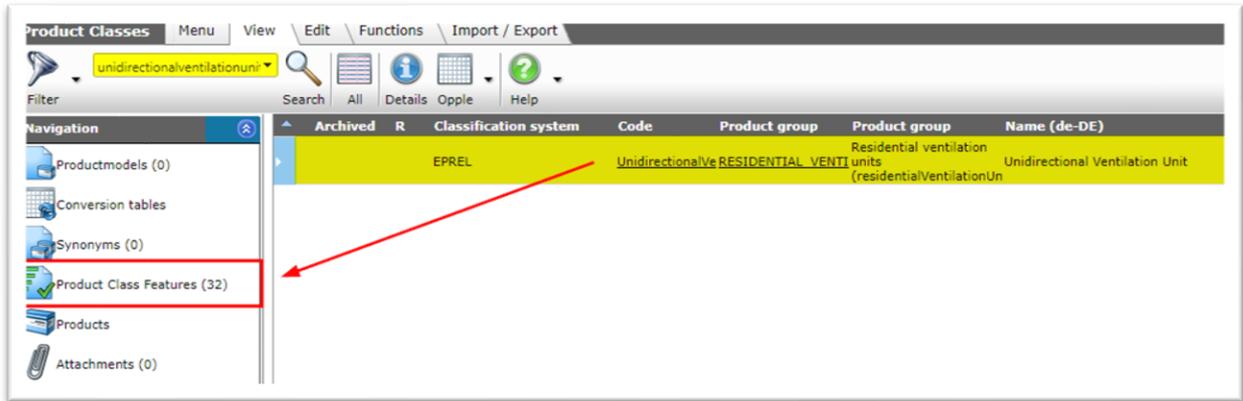
4.2.1 Link text values

A number of predefined 'free' texts values are already available. To add any of these **EPREL_T##** texts to an EPREL features:

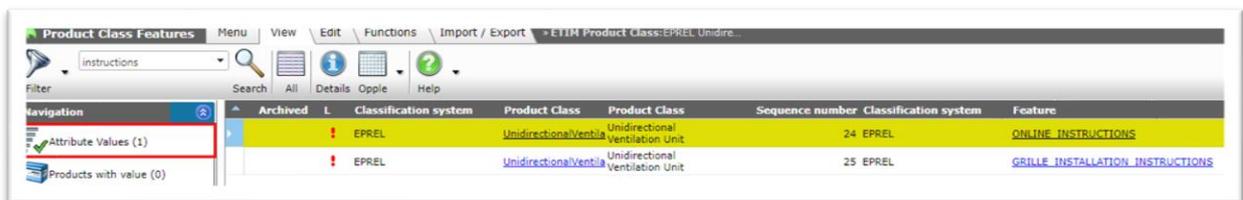
1. Through the Menu, go to *Classification > Product Classes*.



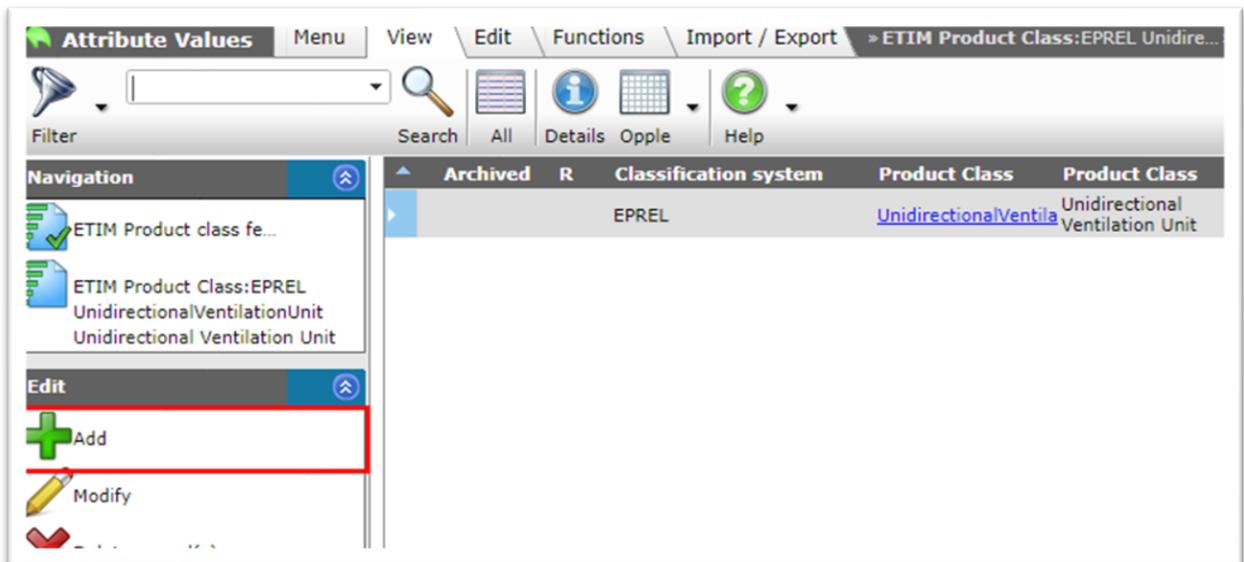
2. Look for the EPREL Class where you need to add a text variable, for instance **UnidirectionalVentilationUnit**. Then, under Navigation, click on *Product Class Features*.



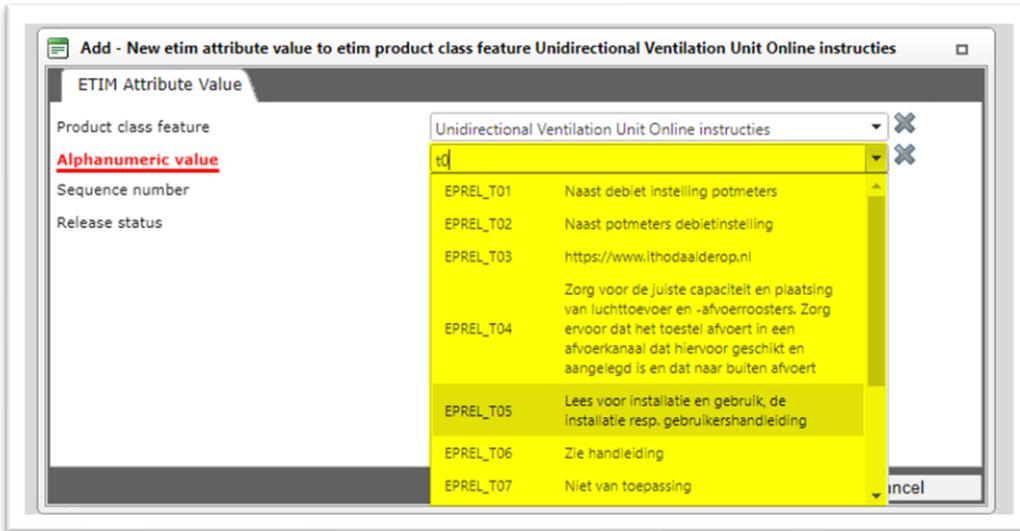
- Next, select the EPREL feature where you need to add text variable(s), and under Navigation, click on *Attribute Values*.



- In the next screen, under Edit, click on *+Add*.

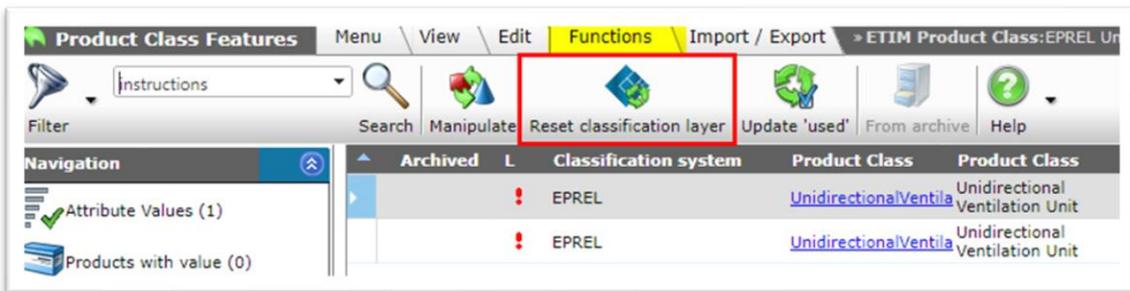


- In the pop-up window:



- a. Alphanumeric value: Find the EPREL_T## text value that you need to add as an option to the free text variable field.
6. Save the record.

Note: After adding new text variables or values to the EPREL classification system, do not forget to *Reset the Classification Layer*, which you can find under *Classification > Product Class Features > tab Functions*:



4.2.2 Add new text value

Free text variable values, i.e. new texts for this variable, have to be added as EPREL_T## values. A number of predefined texts are already available. Any request for new text values should be sent to your Compano consultant.

4.3 Fill out Technical Documentation

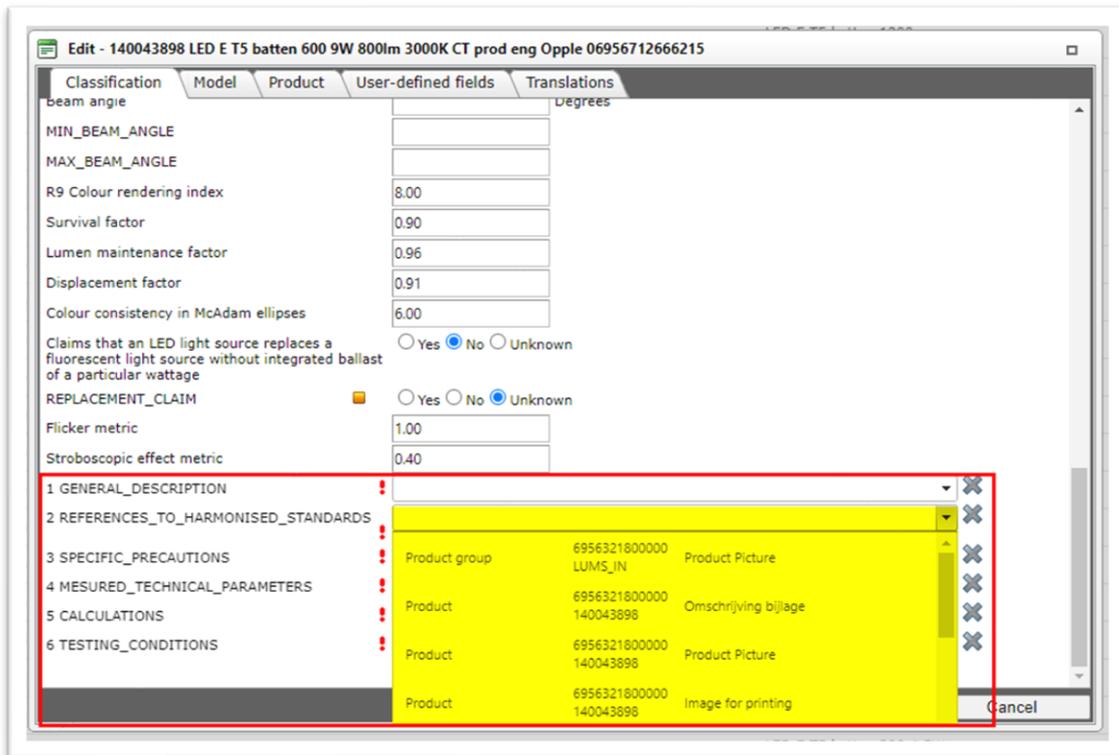
A requirement of EPREL is to add *Technical Documentation* to a Product. For each document the following needs to be specified:

- Document (as attachment)
- Language of the document
- Document Parts (for which multiple selections should be possible)

COS can already handle documents as attachments and document (attachment) language. However, for the Parts specification—for each EPREL class—six new Class Features have been added:

1. General description
2. References to harmonised standards
3. Specific precautions
4. Measured technical parameters
5. Calculations
6. Testing conditions

These features are of type ATTACHMENT and allow for direct selection of files which have been attached to COS Products or Product Groups:



Important: Only the following file types are allowed as attachment for EPREL: **.pdf, .txt, .docx, .rtf, .xlsx, .pps**

Note: Values for these Technical Documentation fields can only be entered manually, however copy/paste of this value is an option in case the same document is used repeatedly.

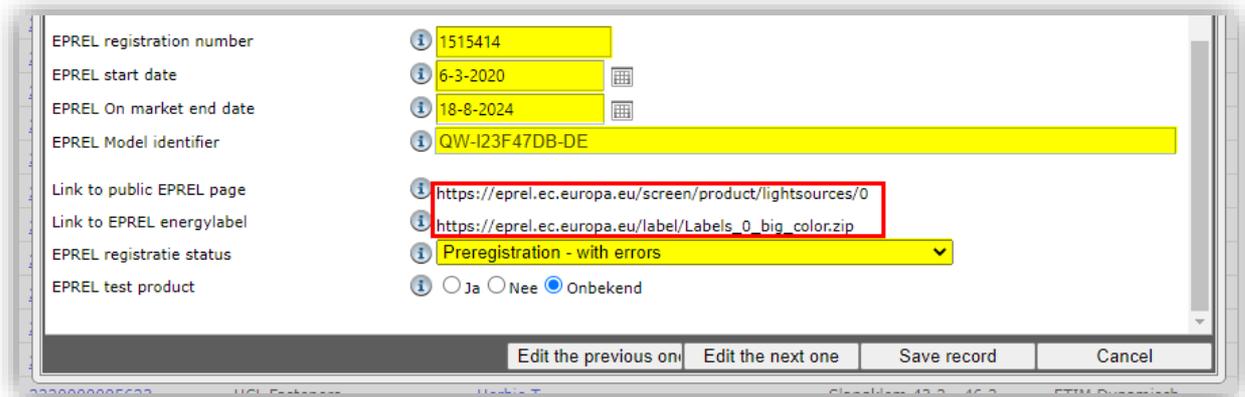
Note: Language of attached documents should be specified, however if no language is specified the attachment will be exported with the default language code of the COS application.

4.4 Copy-paste ETIM values

An optional alternative for filling out EPREL classification, is to copy/paste any available ETIM classification values that correspond to EPREL values. Simply export ETIM classification data of the product, using the *ExcelForImport*-method. Then, switch to EPREL-classification and, using the same method, export the EPREL-classification data and copy/paste any ETIM-data that is usable.

4.5 EPREL-specific fields

In addition to EPREL class features, the following EPREL-specific fields are mandatory. **Note:** These fields have been added to the Product entity as *user-defined fields*:



EPREL registration number	1515414
EPREL start date	6-3-2020
EPREL On market end date	18-8-2024
EPREL Model identifier	QW-I23F47DB-DE
Link to public EPREL page	https://eprel.ec.europa.eu/screen/product/lightsources/0
Link to EPREL energylabel	https://eprel.ec.europa.eu/label/Labels_0_big_color.zip
EPREL registratie status	Preregistration - with errors
EPREL test product	<input type="radio"/> Ja <input type="radio"/> Nee <input checked="" type="radio"/> Onbekend

- **EPREL_NUMBER** (*EPREL registration number*): Note that this number need not be filled out when first registering a Product, however this is *mandatory* for any subsequent updates.
- **EPREL_ON_MARKET_START_DATE** (*EPREL start date*): Note that when left blank, this field will be filled out with the *Product Start Date* from COS. When both the ON_MARKET_START_DATE UDF and the Product Start date are not filled out, no export file can be made, and you will get a message in the impact analysis report.
- **EPREL_ON_MARKET_END_DATE** (*EPREL on market end date*): This field can be left blank until the product is end-of-line at which time the EPREL information can be updated.
- **MODEL_IDENTIFIER** (*EPREL model identifier*): This field can be used to overrule the standard options **Product code**, or **Product code and Type**. Also see: [4.6.1 PREPARE EPREL DATA FILE](#)
- UDF_EPREL_LINK (*Link to public EPREL page*): This field can be set to generate a link to the EPREL public website, or can be filled out per product.
- UDF_EPREL_LABEL (*Link to EPREL energy label*): This field can be set to generate a link to the EPREL public energy label, or can be filled out per product.
- UDF_EPREL_REGISTRATION_STATUS (*EPREL registration status*): Select one a registration status. This is not a mandatory EPREL field, but allows you to keep track of the EPREL status of a product.
- UDF_EPREL_TEST (*EPREL test product*): Status used to keep track of products that are used for an EPREL test track.

Note: Fields marked in **RED** are mandatory data fields for EPREL registration.

Note: The mandatory EPREL tag **<REGISTRANT_NATURE>** will be filled out on export with the value of the COS data field **Manufacturer**.

4.6 Uploading EPREL data

Uploading data to the EPREL database consists of the following steps:

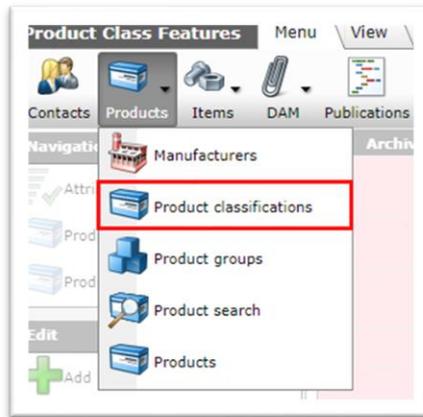
- Prepare the EPREL data (XML) file
- Upload the data file using the EPREL Production website
- Check the reports provided after upload, and fix data if needed.
- Check the EPREL Public website (after 24 hours have passed)

Important: Uploading EPREL data can be achieved with one or more product *of a single product class* per upload.

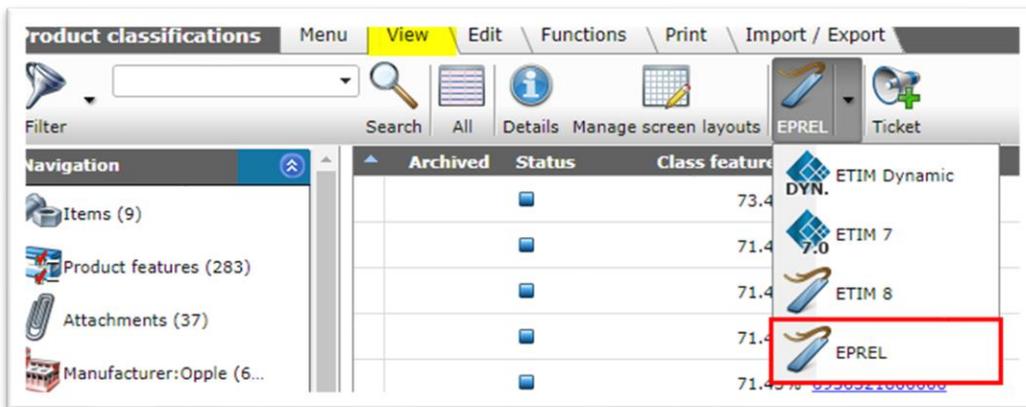
4.6.1 Prepare EPREL data file

To upload EPREL data from COS to the EPREL database:

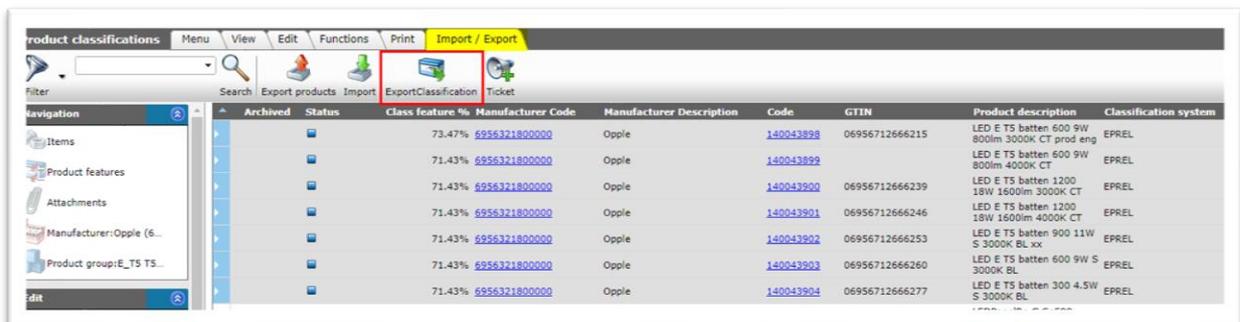
1. Through the Menu, go to *Product > Product classifications*:



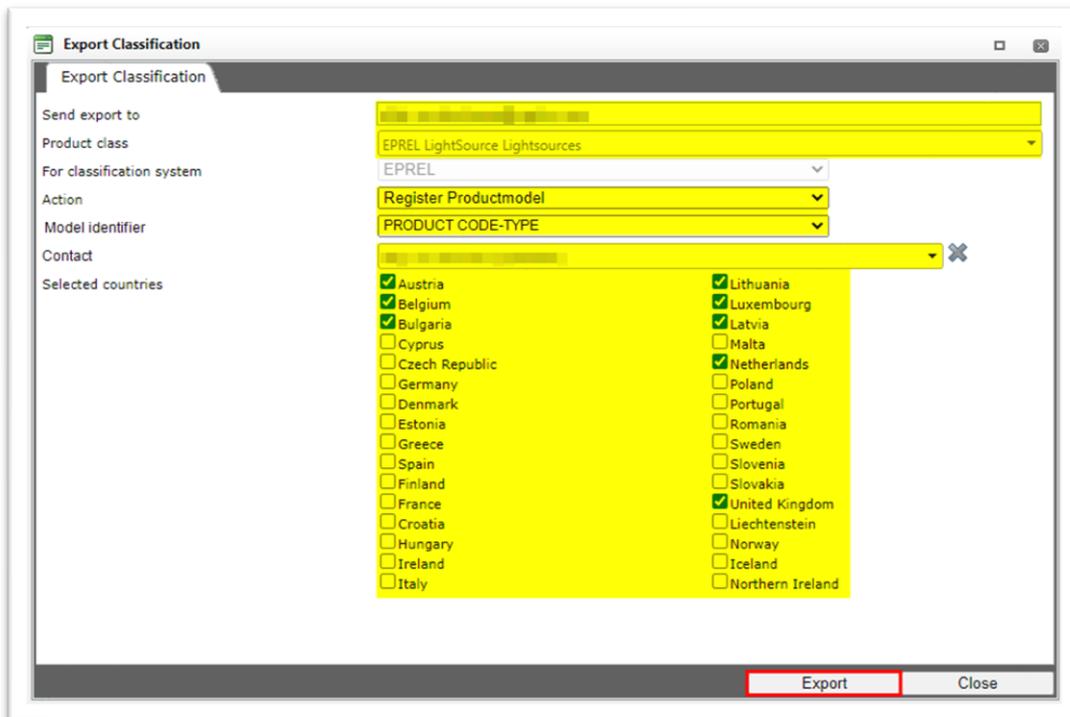
2. On the View tab, from the classification drop-down menu select *EPREL*:



3. Next, go to the Import/Export tab and select one or more Products and click on *Export Classification*.



4. In the pop-up window:



- a. Send export to: Enter the e-mail address to which the resulting export file should be sent.
 - b. Product class: Automatically filled. Important: Only select product of a *single EPREL class* for upload.
 - c. For classification system: Automatically filled; should be set to EPREL.
 - d. Action: Select the EPREL upload type:
 - i. *Register product model*: Preferred option, however you *must* upload a *complete registration* (all data fields filled out).
 - ii. *Update product model*: Update an already registered product, however a reason for this update must be specified³.
 - iii. *Add end date product model*: Add an End Date to an already registered product; useful if a product is end-of-life.
 - iv. *Pre-register product model*: Pre-registering a product will generate an EPREL number for the Product, however you will be required to update the EPREL information for this product within four weeks. It is recommended to use the Register option instead.
 - e. Model identifier: Select the model identifier; either **Product code** only, or **Product code and type**. Note: Can be overruled for individual products by filling out the user-defined field MODEL_IDENTIFIER.
 - f. Contact: Select the Contact, which can be either an Organisation of Contact Person.
 - g. Selected countries: Mark all countries where the Product is placed. Note: For *all countries*, leave *all* checkboxes *unmarked*.
5. Click on *Start Export* to receive a compressed EPREL data XML-file (ZIP format).

³ 5/12/2022: For now, you cannot specify and upload a reason for updates in COS, therefore updating EPREL information should be done manually at the EPREL production website.



4.6.2 Upload EPREL data file

The resulting EPREL zipped data file needs to be uploaded to the EPREL database, using the following address:): <https://energy-label.ec.europa.eu> (EPREL production site).



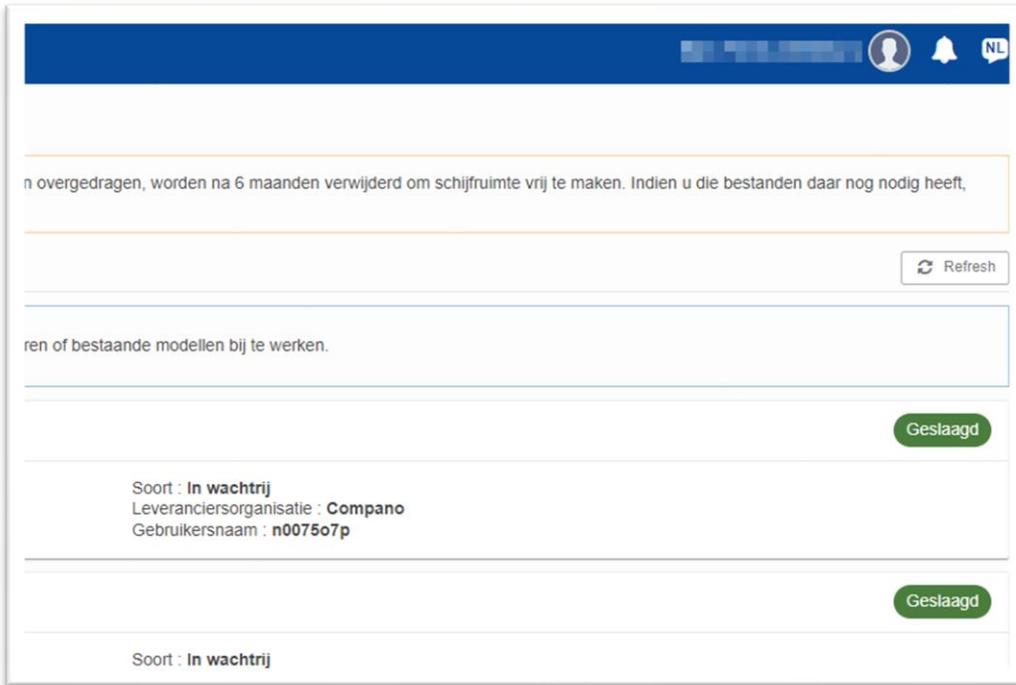
Note:

- Multiple products of a single class can be uploaded in a single file.
- The product will be published to the EPREL Public site after a 24 hour delay; use this time to *delete* a faulty product upload.
- Depending upon the restrictions set by your Internet Service Provider, the size of the data file that you will be able to upload might be limited.

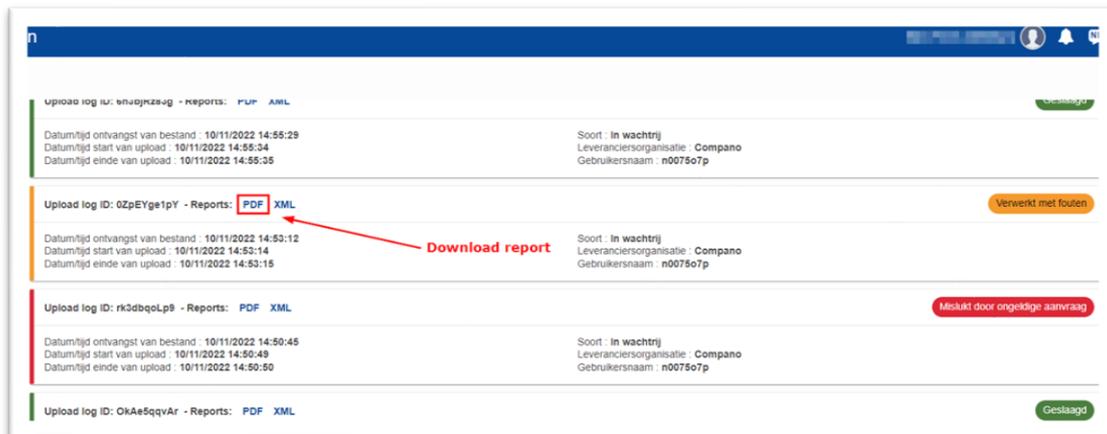
4.6.3 Check your upload

Once the upload is complete, check the (new) product model:

- Use the Refresh button to view your latest upload and upload report:



- Download the PDF rapport next to the product model:



- Check for any errors and correct them:

Product model registration report

Request ID:
Status: Processed with errors

Report per operation :

Id	Action	Status	Date	Registration number	Model identifier	Model status	Product group	Legislative act	Supplier/ Trademark
03-00391	Register product model	Product operation failed	2022-11-10 13:53:15(UTC)		03-00391		Residential ventilation unit	Eu 1254 2014	Itho Daalderop

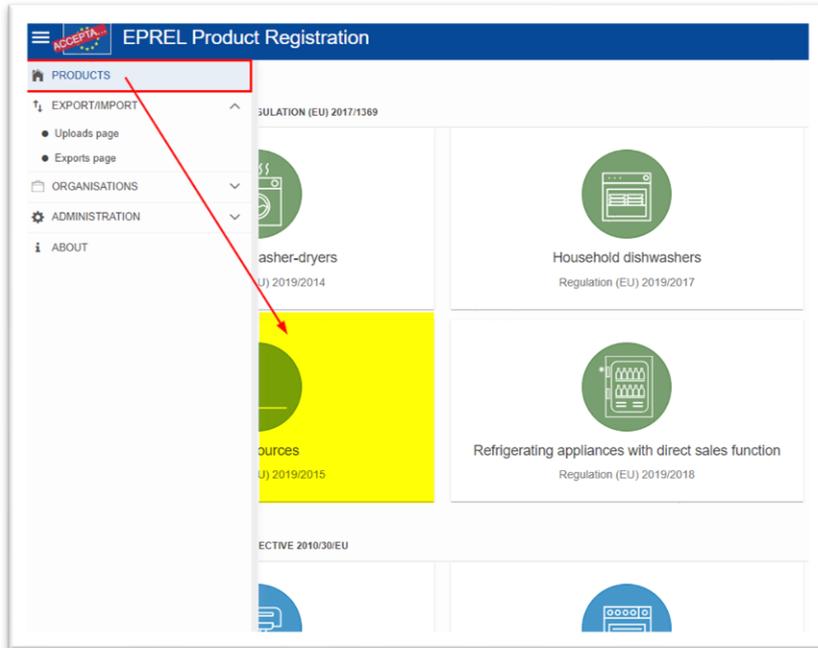
• **Errors/Warning:**

Criticality	Code	Error message
Error	ERR-UIZVU0VSvg==015	Common module generic error - Invalid value for Airflow sensitivity to pressure variations at + 20 Pa and - 20 Pa (%) >0.0 <= 100.0

Note: Any successful upload will be published after a 24 hour delay. Within this time period you will be able to remove the upload. When the product model has been published on the public website, you can only remove the model manually and you will have to specify a reason as to why you remove the model.

4.7 Review EPREL information

To review EPREL information, use the Home button in the side panel menu and click on *Products*.



Select one of the EPREL categories and search for your product:



Use the *Open* button to review the EPREL information of the product:

Light sources

Regulation (EU) 2019/2015

Model identifier : **CLAMP02**

EPREL registration number : **162209**

Navigation <

- Public information
- Label / Fiche
- Technical Documentation
- Equivalent Models
- Public Contact
- Compliance Contacts
- Other model identifiers
- Countries of placement
- Versions
- Issues reported by public users

ACTIONS

Change
Back

Results

Public information

Registered as
Manufacturer

Date of first placing on the market
05/03/2020

Compliance data visible to UK MSA
 Yes No

TYPE OF LIGHT SOURCE

Lighting technology used
LED

Non-directional or directional
Non-directional

Light source cap-type (or other electric interface)
myCapType

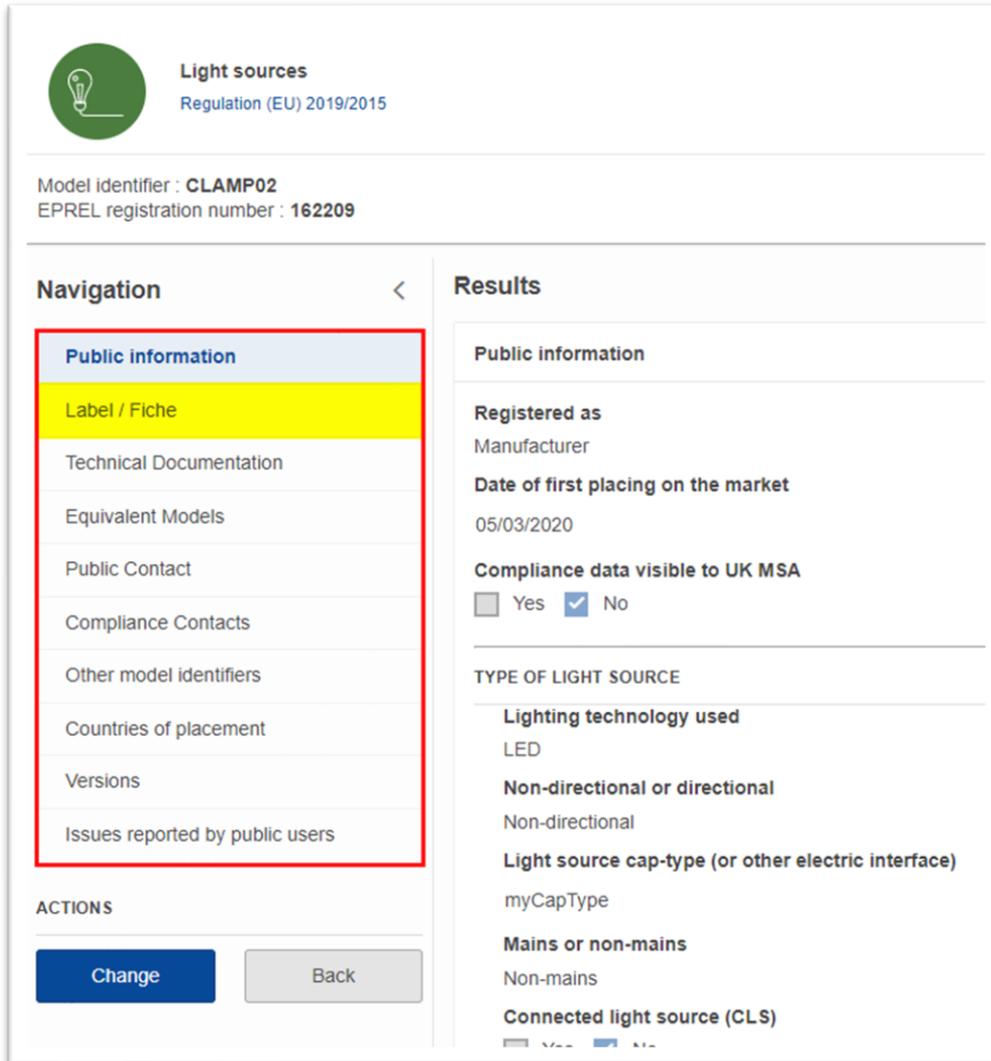
Mains or non-mains
Non-mains

Connected light source (CLS)
 Yes No

Use the Navigation menu to review any of the information categories

4.8 Printing labels

By clicking the Label / Fiche option in the Navigation menu, you will be able to generate EPREL labels for your product:



Light sources
Regulation (EU) 2019/2015

Model identifier : **CLAMP02**
EPREL registration number : **162209**

Navigation

- Public information
- Label / Fiche**
- Technical Documentation
- Equivalent Models
- Public Contact
- Compliance Contacts
- Other model identifiers
- Countries of placement
- Versions
- Issues reported by public users

ACTIONS

[Change](#) [Back](#)

Results

Public information

Registered as
Manufacturer

Date of first placing on the market
05/03/2020

Compliance data visible to UK MSA
 Yes No

TYPE OF LIGHT SOURCE

Lighting technology used
LED

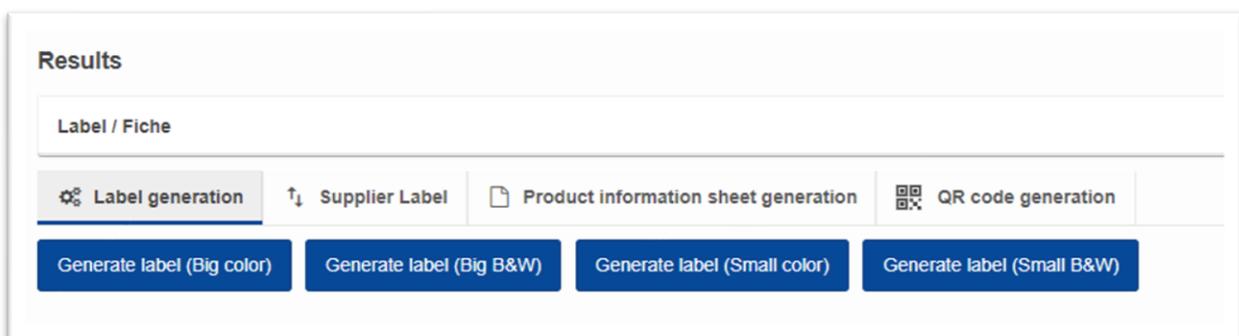
Non-directional or directional
Non-directional

Light source cap-type (or other electric interface)
myCapType

Mains or non-mains
Non-mains

Connected light source (CLS)
 Yes No

Select any of the available option to generate large or small labels, either in color or black-and-white:



Results

Label / Fiche

[Label generation](#)
[Supplier Label](#)
[Product information sheet generation](#)
[QR code generation](#)

[Generate label \(Big color\)](#)
[Generate label \(Big B&W\)](#)
[Generate label \(Small color\)](#)
[Generate label \(Small B&W\)](#)

The generated labels will be offered as a compressed file (zip) containing a PDF, PNG and SVG version of the label.

Note: Labels will only be generated when *all mandatory EPREL fields* have been filled out.

4.8.1 Add labels to products in COS

Label generated by EPREL can be added to products in COS as attachment of type Energy Label (EEP).

Important: As EPREL generates consistent paths to labels, adding labels as attachment to products in COS can be handled in bulk.

Example link structure

`https://eprel.ec.europa.eu/label/Label_[EPREL-registration-number]_big_color.svg`

By using this link structure, the path to the label for each product model can be easily generated.

For instance:

https://eprel.ec.europa.eu/label/Label_1112325_big_color.pdf
https://eprel.ec.europa.eu/label/Label_1112325_big_color.png
https://eprel.ec.europa.eu/label/Label_1112325_big_color.svg
https://eprel.ec.europa.eu/label/Label_1112325_small_color.pdf

https://eprel.ec.europa.eu/label/Labels_1112325_big_color.zip
https://eprel.ec.europa.eu/label/Labels_1112325_small_color.zip

Conversely, links to EPREL can also be generated using expression in COS, such as:

Link to PNG image:

`CONCAT("https://eprel.ec.europa.eu/label/Label_", TOSTRING(EPREL_MODEL_REGISTRATION_NUMBER), "_big_color.png")`

Link to EPREL product model page:

`CONCAT("https://eprel.ec.europa.eu/screen/product/lightsources/", TOSTRING(EPREL_MODEL_REGISTRATION_NUMBER))`

4.9 Updating EPREL data

Use the *Change* button if you need to update EPREL data:

Light sources

Regulation (EU) 2019/2015

Model Identifier : **CLAMP02**
EPREL registration number : **162209**

Navigation

- Public information
- Label / Fiche
- Technical Documentation
- Equivalent Models
- Public Contact
- Compliance Contacts
- Other model identifiers
- Countries of placement
- Versions
- Issues reported by public users

ACTIONS

Change

Back

Results

Public information

Registered as
Manufacturer

Date of first placing on the market
05/03/2020

Compliance data visible to UK MSA
 Yes No

TYPE OF LIGHT SOURCE

Lighting technology used
LED

Non-directional or directional
Non-directional

Light source cap-type (or other electric interface)
myCapType

Mains or non-mains
Non-mains

Connected light source (CLS)
 Yes No

Note: You will be required to give a reason as to why you need to change EPREL data. Also, you will only be allowed to change any typos; for changes in parameter values, you will have to create a *new* product model. Both reason and comment can be indicated when generating the EPREL export in COS:

Export Classification

Send export to: vincenthoogstad@nedelko.nl

Product class: [dropdown]

For classification system: EPREL

Action: Update productmodel

Reason for change: Correct typo

Reason comment: Correct typo

Model Identifier: [dropdown]

Contact reference: [dropdown]

Selected countries: Belgium Luxembourg

5 Appendix A: EPREL-class specific instructions

For some EPREL classes, specific instructions apply.

5.1 Lightsource

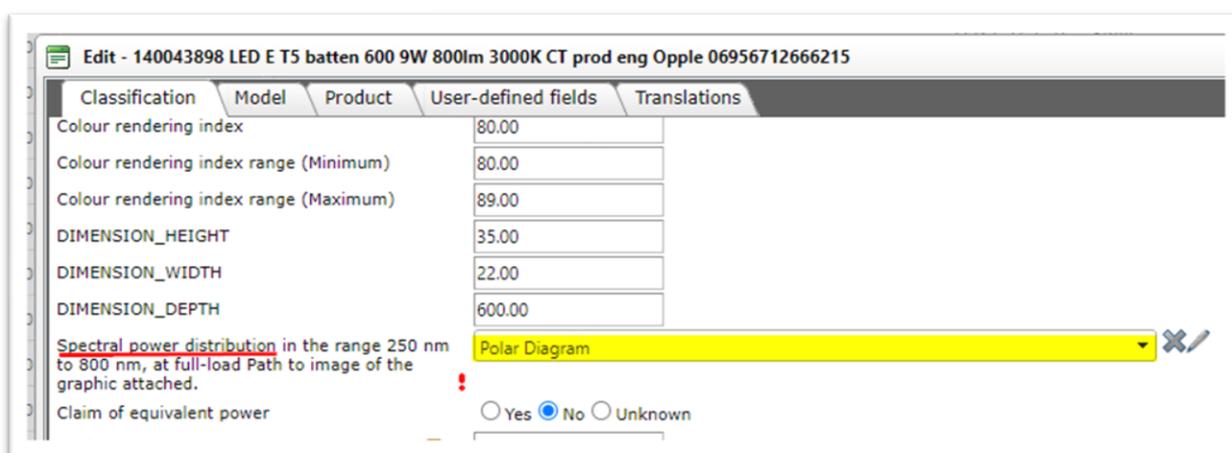
For the *Lightsource* class the following applies:

5.1.1 Lightsource ENVELOPE

The class feature ENVELOPE should be left *empty*.

5.1.2 Lightsource image

For the EPREL class *Lightsource*, for the *Spectral power distribution* feature, an attached image can be selected.



The screenshot shows a software window titled "Edit - 140043898 LED E T5 batten 600 9W 800lm 3000K CT prod eng Opple 06956712666215". The window contains a table with the following data:

Classification	Model	Product	User-defined fields	Translations
Colour rendering index			80.00	
Colour rendering index range (Minimum)			80.00	
Colour rendering index range (Maximum)			89.00	
DIMENSION_HEIGHT			35.00	
DIMENSION_WIDTH			22.00	
DIMENSION_DEPTH			600.00	
Spectral power distribution in the range 250 nm to 800 nm, at full-load Path to image of the graphic attached.			Polar Diagram	
Claim of equivalent power			<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> Unknown	

Note: The attached image *must be* of type JPG, PNG, TIFF or SVG. Any other types will generated an EPREL error.

The feature will be exported as:

```
<SPECTRAL_POWER_DISTRIBUTION_IMAGE>/attachments/Print_542005005900.png</SPECTRAL_POWER_DISTRIBUTION_IMAGE>
```

5.1.3 Space heaters

Technically, COS supports the following classes:

Water heaters:

- Conventional Water Heater
- Water Heater with Heat Pump
- Solar Water Heater

Space heaters:

- Boiler Space Heater
- Boiler Combination Heater
- Cogeneration Space Heater

- Cogeneration Combination Space Heater
- Heat Pump
- Low Temperature Heat Pump
- Heat Pump Combination Heater

5.1.3.1 SMART heater

If your water heater is a SMART device, please fill out the following two fields:

specific precautions	<input type="text"/>
Smart control	1.00
Textual indication of smart control	Not applicable

If your water heater is not SMART, please leave both field *empty*.

specific precautions	<input type="text"/>
Smart control	<input type="text"/>
Textual indication of smart control	<input type="text"/>