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European Product Registry for Energy Labelling (EPREL)

Water Heaters (Solar devices)

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1. TABLE OF CONTENTS

1. TABLE OF CONTENTS	2
1.1. DOCUMENT HISTORY	3
1.2. BIBLIOGRAPHY	4
1.3. ABBREVIATIONS AND GLOSSARY	4
2. INTRODUCTION AND PURPOSE	5
3. WATER HEATERS (SOLAR DEVICE)	6
3.1. FIELDS/EXCHANGE MODEL	6
3.2. MOCK-UP	8
3.3. LABELS	9
3.4. PRODUCT INFORMATION SHEET.....	9

1.1. Document History

Version	Date	Comment
1.00	23/07/2018	Draft Document created by Oscar Miralles (OM)

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1.2. Bibliography

- [1] EPREL, *Bussiness Glossary*, 2016.
- [2] EPREL, *COMMISSION DELEGATED REGULATION (EU) No 812/2013 of 18 February 2013 supplementing Directive 2010/30/EU of the European Parliament and of the Council with regard to the energy labelling of water heaters, hot water storage tanks and packages of water heate.*
- [3] EPREL, XML Exchange Model, 2018.

1.3. Abbreviations and Glossary

See document "EPREL – Business Glossary" [1]

2. INTRODUCTION AND PURPOSE

This document is a summary of all that is necessary for the EPREL to generate the UI form (list of fields and mock-up screenshot) for each product group, to generate the labels and to generate the product information sheet.

3. WATER HEATERS (SOLAR DEVICE)

COMMISSION DELEGATED REGULATION (EU) No 812/2013 of 18 February 2013 supplementing Directive 2010/30/EU of the European Parliament and of the Council with regard to the energy labelling of water heaters, hot water storage tanks and packages of water heater and solar device [2].

These product group concerns 4 types of products "Water heaters", "Hot water storage tanks", "Solar devices", "Packages of water heater and solar device". They will have separate Product Information Sheets.

This document is intended only for "Solar devices".

3.1. Fields/Exchange model

List of fields extracted from the Regulation mentioned above and their correspondence with the fields in Data Exchange Model [3] class "SolarDevice". The column "Item" is a reference to the field as defined in the Annex IV "Product fiche"; the name of the field, the type, if mandatory, a short description how it's filled or the units used, and field in the data exchange model.

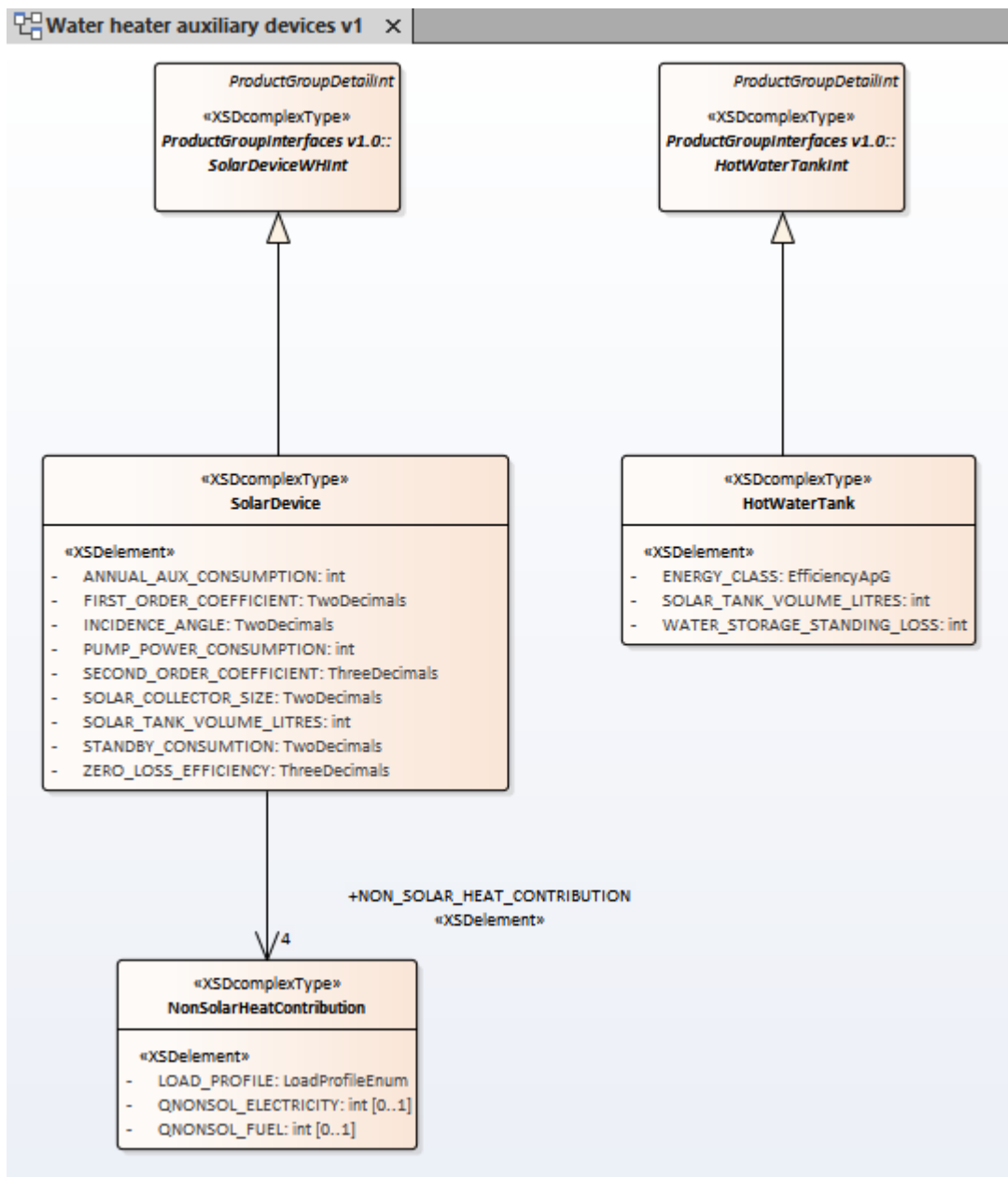


Figure 1 Exchange model

Item	Field	Type	Mandatory	Description	Exchange model
3.1(a)	Supplier's name or trademark	Text	TRUE		
3.1(b)	Supplier's model identifier	Text	TRUE		
3.1(c)	Solar collector aperture area	Number (2 decimals)	TRUE	m2	SOLAR_COLLECTOR_SIZE
3.1(d)	Zero-loss efficiency	Number (3 decimals)	TRUE	%	ZERO_LOSS_EFFICIENCY

Item	Field	Type	Mandatory	Description	Exchange model
3.1(e)	First-order coefficient	Number (2 decimals)	TRUE	W/(m2 x K)	FIRST_ORDER_COEFFICIENT
3.1(f)	Second-order coefficient	Number (3 decimals)	TRUE	W/(m2 x K2)	SECOND_ORDER_COEFFICIENT
3.1(g)	Incidence angle modifier	Number (2 decimals)	TRUE		INCIDENCE_ANGLE
3.1(h)	Storage volume	Number (No decimals)	TRUE	Litters	SOLAR_TANK_VOLUME_LITRES
3.1(i)	For the load profiles M, L, XL and XXL (all profiles need to be filled)				
	Load profile	List	TRUE	M, L, XL, XXL	LOAD_PROFILE
	Annual non-solar heat contribution (Electricity)	Number (No decimals)	FALSE	kWh	QNONSOL_ELECTRICITY
	Annual non-solar heat contribution (Fuel)	Number (No decimals)	FALSE	GCV	QNONSOL_FUEL
3.1(j)	Pump power consumption	Number (No decimals)	TRUE	W	PUMP_POWER_CONSUMPTION
3.1(k)	Standby power consumption	Number (2 decimals)	TRUE	W	STANDBY_CONSUMPTION
3.1(l)	Annual auxiliary electricity consumption	Number (No decimals)	TRUE	kWh	ANNUAL_AUX_CONSUMPTION

3.2. Mock-up

These are the mock-up screenshots of how the UI form will look like for the supplier to enter the model information manually.

A Web Page

http://

European Commission EPREL Compliance website

English (minerals) MOVIE SRD 2.001

Water heaters (Solar device)

Delegated Regulation 812/2013 EPREL Registration Number 8564125144 Version 3 Model identifier Supplier name/Trademark

Status Incomplete

Navigation

General information

Label/Fiche

Technical documentation

Equivalent models

Contact

Access log

Versions

Actions

Edit Back

General information

Date of placement on the market / /

Date of end of placement on the market / /

Solar collector aperture area (m²) 65.12

Zero-loss efficiency (%) 20.123

First-order coefficient (W/(m² x K)) 20.12

Second-order coefficient (W/(m² x K²)) 20.123

Incidence angle modifier 20.12

Storage volume (Liters) 20

Add profile

Profiles

Load profile M

Annual non-solar heat contribution (Electricity) (kWh) 20

Annual non-solar heat contribution (Fuel) (GCV) 20

Delete profile

Pump power consumption (W) 20

Standby power consumption (W) 20.12

Annual auxiliary electricity consumption (kWh) 20

i If you choose to allow EPREL to generate the labels for this model, you are accepting that the generated label is correct in format and content. Before accepting it, we recommend to generate the label to preview the output and verify them. If you upload a label manually it will be ignored and the generated used in Public Site.

☐ I accept the labels generated by EPREL for this model

Save

Figure 2 Mock-up

3.3. Labels

THERE ARE NO LABELS FOR THIS PRODUCT GROUP

3.4. Product Information Sheet

This is a template of the product information sheet using the fields from the Annex IV “Product fiche”.

Product Information Sheet	
Delegated Regulation (EU)	812/2013
Supplier name or trademark	[Supplier name or trademark]
Model identifier	[Model identifier]
Solar collector aperture area	[Solar collector aperture area] m ²
Zero-loss efficiency	[Zero-loss efficiency] %
First-order coefficient	[First-order coefficient] W/(m ² x K)
Second-order coefficient	[Second-order coefficient] W/(m ² x K ²)
Incidence angle modifier	[Incidence angle modifier]
Storage volume	[Storage volume] Liters

<i>(Repeat this section with the next 2 fields for the profiles declared)</i>	
Profile: [Load profile]	
Annual non-solar heat contribution (Electricity)	[Annual non-solar heat contribution (Electricity)] (kWh)
Annual non-solar heat contribution (Fuel)	[Annual non-solar heat contribution (Fuel)] (GCV)
<i>(End profile section)</i>	
Pump power consumption	[Pump power consumption] (W)
Standby power consumption	[Standby power consumption] (W)
Annual auxiliary electricity consumption	[Annual auxiliary electricity consumption] (kWh)