



## ***D3.4 – Periodic Selection Criteria Report Edition 2***

May 2018

**Topten Act coordinator: ADEME**

**European portal** [www.topten.eu](http://www.topten.eu)

**Project partners and websites**

Austria, AEA  
[www.topprodukte.at](http://www.topprodukte.at)

Belgium, BBL  
[www.topten.be](http://www.topten.be)

Czech Republic, SEVEN  
[www.uspornespotrebice.cz](http://www.uspornespotrebice.cz)

France, Guide Topten  
[www.guidetopten.fr](http://www.guidetopten.fr)

Germany, Oeko-Institut  
[www.ecotopten.de](http://www.ecotopten.de)

Italy, Eliante  
[www.eurotopten.it](http://www.eurotopten.it)

Lithuania, LNCF  
[top-10.lt](http://top-10.lt)

Luxembourg, Oeko-Zenter  
[www.oekotopten.lu](http://www.oekotopten.lu)

Norway, Naturvernforbund  
[www.besteprodukter.no](http://www.besteprodukter.no)

Poland, FEWE  
[www.topten.info.pl](http://www.topten.info.pl)

Portugal, Quercus  
[www.topten.pt](http://www.topten.pt)

Romania, Icemenerg  
[www.topten.info.ro](http://www.topten.info.ro)

Spain, WWF  
[www.topten.wwf.es](http://www.topten.wwf.es)

Sweden, SSNC  
[www.toptensverige.se](http://www.toptensverige.se)

Switzerland, Bush Energie  
[www.topten.ch](http://www.topten.ch)

UK, EST  
[www.top10energyefficiency.org.uk/](http://www.top10energyefficiency.org.uk/)



*Topten Act aims at transforming the European market of energy-using products towards higher energy efficiency by addressing non-technical market barriers. Topten Act works in order to:*

*1. Increase consumer purchases of top energy-efficient products in Europe: Topten Act identifies the top energy-efficient products in 16 European countries, and pushes this information to consumers through tailored national websites and targeted communications activities. Topten websites are a free, accessible to all, 'public service' that helps consumers navigate the myriad of energy-using products offered to them in AT, BE, CZ, FR, DE, IT, LT, LU, NO, PL, PT, RO, ES, SE, CH and UK.*

*2. Increase the availability and visibility of top energy-efficient products on EU markets: Consumer demand for top energy-efficient products improves Topten Act's ability to: 1) work with manufacturers to help them steer production lines towards more energy-efficient products; 2) support retailers to display and promote energy-efficient products in their shops.*

*3. Increase large buyers' knowledge of and demand for top energy-efficient products in Europe (both public and private entities): Large buyers have the ability to steer the market towards more energy-efficient products. Topten Act approaches them with information on products of their interest (e.g. office equipment, vehicles) and offers direct advice in preparing calls for tenders that include energy efficiency criteria.*

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# 1. Introduction

This report (D3.4) provides an overview on Topten selection criteria for all Topten platforms applied in January 2018, and builds on edition 1 of this report from June 2016 (D3.3).

The document facilitates a cross country comparison of national selection criteria and outlines the development of various national markets in Europe for the product groups covered.

The structure of this report follows the first level navigation of the topten.eu-Platform concerning the online presentation of Topten product lists.

- Cars
- Household appliances
- Lighting
- Office equipment
- Consumer electronics
- Building components
- Professional refrigerators

Nevertheless national Topten platforms may apply other sequences or clusters of main product categories.

All criteria sets applied by topten.eu and all national partners are presented in tables (cf. chapters 2 – 8), whereas section “Household appliances” is split in clusters “Cooling appliances” “Washing, Drying & Cleaning” “Kitchen appliances” to facilitate a better overview. The specific criteria are documented with abbreviations and the respective threshold levels without “minimum/maximum,  $\geq$  /  $<$ ”, e.g. “Energy Efficiency class: min. A+” is noted as “EEC: A+”. The Topten teams’ common understanding is that threshold levels are used as minimum requirement or maximum allowance in general. A list of relevant abbreviations is provided for every section.

This evaluation covers different distributions and availability of energy-efficient products among the various markets and includes the number of categories, sub-categories and product references covered across Europe.

Concerning the definition of categories and sub-categories, the following concept is applied: every section includes several categories, which are split in various sub-categories, representing the specific Topten product lists themselves. For example the section “Household appliances” covers “Washing machines” (as “category”), which are presented according to different ranges of “rated capacities in kg”, e.g. “washing machines with 8 kg capacity” (as “subcategory”).

## Number of categories and subcategories, June 2016

Section / Cluster	Categories [#]	Sub-categories [#]
Cars	25	115
Cooling appliances	61	126
Washing, Drying & Cleaning	45	91
Kitchen appliances	36	87
Lighting	36	149
Office Equipment	52	179
Consumer Electronics	17	67
Building Components	21	95
Professional Refrigerators	67	98
<b>TOTAL</b>	<b>360</b>	<b>1007</b>

### Number of categories and subcategories, January 2018

Section / Cluster	Categories [#]	Sub-categories [#]
Cars	25	123
Cooling appliances	61	140
Washing, Drying & Cleaning	46	103
Kitchen appliances	36	96
Lighting	38	191
Office Equipment	53	191
Consumer Electronics	16	70
Building Components	23	87
Professional Refrigerators	67	98
<b>TOTAL</b>	<b>365</b>	<b>1099</b>

Comparing the number of categories and sub-categories both for the status June 2016 and January 2018 it is evidenced that the number of categories maintained in total has been kept quite stable (an increase by 5). However the total number of sub-categories has been increased by about 10 % (92 additional sub-categories) throughout all clusters. The enlargement in terms of product lists has been done in general to provide a more suitable segmentation (e.g. splitting lists for washing machines according to the rated capacity) and to include further product types (e.g. for domestic lighting products). The visitors of the respective national top product websites benefit from this further segmentation, since further sub-categories cater to different needs. The total number of actual product references was estimated based on the typical average product list length specific for every national platform multiplied with the number of subcategories maintained by the respective partners, resulting in a total number of product references presented by all partners to 21,745 units in January 2018 compared to 17,780 units in June 2016. This is an increase by 22.3 % and demonstrates that all partners continuously expand their range of products.

Concerning the upgrade of Topten selection criteria it can be summarised that the market has progressed in terms of energy efficiency to some extent, yet limited to certain product categories. Comparing to the status of 2016 the biggest changes are evidenced for lighting products, as 11 partners were able to tighten the selection criteria. The criteria for the categories tumble dryer, dishwasher and vacuum cleaner have been upgraded by at least 3 partners. For ovens, washing machines and air conditioners more challenging limits have been applied by 2 partners.

## 2. Section “Cars”

### Categories

- Mini
- Small cars
- Compact cars
- Middleclass
- Upper middleclass
- Van 5 seats
- Van 6 or more seats
- Electric vehicles
- E-bikes
- Tyres

### Abbreviations

CO<sub>2</sub> specific CO<sub>2</sub> emissions [g/km]  
 EEI Energy efficiency index  
 EP Eco points  
 SEC Specific energy consumption [Wh/km]

### Overview “selection criteria – status January 2018”

Category	Cars (different fuels, except E-cars)	Electric vehicles	E-bikes
Country			
EU	EP: mini: 72.3 small cars: 67.3 compact: 67.2 middle class: 57 upper middle class: 48 van 5 seats: 57.8 van 6 and more seats: 51.8	n.a.	n.a.
AT	CO <sub>2</sub> : Diesel / Petrol small car: 95 / 110 compact car: 95 / 110 mid-size car: 105 / 130 micro van: 110 / 130 compact van: 115 / 130 CNG or hybrid cars: 150 Plug-in-Hybrid: 100	Overview of available electric vehicles in Austria	Overview of available E-bikes in Austria, based on test results from German initiative <a href="http://extraenergy.org">extraenergy.org</a>
BE	EP: min. 70 for 6 and more seats EP: min. 76 for all other cars All cars are in the same category, including electrical cars. They are the ten best scoring cars on Ecoscore for each type of car.	n.a. (see comment in column “cars”)	n.a.
CH	EP: mini: 70.8 small cars: 67.5 compact: 67.0 middle class: 57.7 upper middle class: 56 van 5 seats: 59 van 6 and more seats: 56 4x4: 59	EP: 85.3	SEC: 8
CZ	n.a.	n.a.	n.a.
DE	Only general information available	Only general information available	General overview available; safety according to German Road Traffic Licensing Act

ES	n.a.	n.a.	n.a.
FR	Only general information available	n.a.	n.a.
IT	Ecorating based on EP: mini and city cars: 5* lower-middle class: 4*, EP: > 67 vans: 4*, EP: > 57 station wagon 3*, EP: > 57	Ecorating: 5* for electric and plug-in cars), EP: > 97	n.a.
LT	same as topten.eu	n.a.	n.a.
LU	CO2: mini: 85 small & compacts: 85 middle: 95 upper middle: 110 monospaces -6: 100 monospaces +6: 110 All cars have to fulfil Euro 6 standards Diesel cars: AdBlue Technology obligatory	all models integrated in the others subcategories	Life span min. 500 full charge cycles Motor max.250 Watt support max. 25 km/h Lightings front & back -disk break, except folding pedelegs EEL: Trekking: 0.30 City / Cargo : 0.25 Pliable: 0.15
NO	n.a.	n.a.	n.a.
PL	EP mini: 67 small: 66,5 compact: 65 middle class: 58,3 upper middle class: 50 van to 5-seats: 57 vans 6 seats: 51	n.a.	n.a.
PT	same as topten.eu	Available, but no criteria	n.a.
RO	ECO STARS: 5* (Mini) 4* (Small cars, Compacts) 3* (Middleclass, Van 5) 2* (Uper middleclass, Van 6)	n.a.	n.a.
SE	n.a.	n.a.	n.a.
UK	n.a.	n.a.	n.a.

### Comment on cross country comparison of selection criteria

Topten.eu selection criteria for cars are based on Eco-points according to the ATE/VCS (Swiss vehicle association) methodology<sup>1</sup>. Higher Eco-points show a better environmental compatibility. 4 partners (BE, CH, LT and PT) also apply Eco-points as their selection criteria. One partner (IT) follows a slightly different approach by applying a star rating based on Eco-points. Eco-points rating is based on available and comparable data on cars in terms of polluting emissions and noise. Furthermore, 2 partners (AT and LU) rate cars depending on how much greenhouse gas CO<sub>2</sub> g/km is emitted. 5 partners (CZ, ES, NO, SE and UK) do not list cars on their respective websites. Two partners (DE and FR) have a general information section on mobility issues. The French partner used to have a car section, but this section was taken down after the diesel emissions scandal in 2016. Concerning the level of ambition of the selection criteria all partners maintained similar values in general compared to the status in June 2016, proving that the criteria are still sufficient in terms of indicating the segments of cars with best environmental compatibility.

In regard to electric vehicles, 6 partners (AT, BE, CH, IT, LU and PT) list them on their respective websites. E-bikes are covered in 3 partner countries (AT, CH and LU), while the DE partner provides a general overview on their website. For all partners, the coverage of electric vehicles remains constant compared to June 2016.

<sup>1</sup> [www.ate.ch](http://www.ate.ch)

In general, it could be observed that over the lifespan of the project the number of partner countries covering mobility issues has increased, even if it is only in regard to a general information section on their respective website.

#### **Overview: sum of categories and subcategories**

Over the project period the sum of categories has not changed, but the number of sub-categories has increased from 115 to 123.

Year	Categories [#]	Sub-categories [#]
2016	25	115
2018	25	123



### 3. Section “Household appliances”

#### Cluster “Cooling appliances”

##### Categories

- Fridge
- Fridge/Freezer
- Chest freezer
- Upright freezer

##### Abbreviations

AEC Annual energy consumption [kWh]

EEC Energy efficiency class

N Noise emission [dB(A)]

##### Overview “selection criteria – status January 2018”

Category	Fridge	Fridge/Freezer	Chest freezer	Upright freezer
Country				
EU	EEC: A+++ / AEC: 200	EEC: A+++ / AEC: 200	EEC: A+++	EEC: A+++
AT	EEC: A++ N: stand-alone <= 40 N: built in: <=37	EEC: A+++ except built-in < 160cm, EEC: A++ N: stand-alone <= 40 N: built in: <=38	EEC: A++ / N: <= 42	stand-alone: <160cm: EEC: A++ N: <= 41 >160cm: EEC: A+++ N: <=43 build-in: EEC: A++ N: <=38
BE	EEC: A+++ / AEC: 200	EEC: A+++ / AEC: 200	EEC: A+++	EEC: A+++
CH	EEC: A+++ / AEC: 200	EEC: A+++ / AEC: 200	EEC: A+++	EEC: A+++
CZ	EEC: A+++ / AEC: 200	EEC: A+++ / AEC: 200 except side-by-side fridges/freezers (EEC: A++)	A+++ / AEC: 200 (chest and upright free- standing freezers together)	EEC: A++ (only built in freezers)
DE	EEC: A+++ / AEC: 200	EEC: A+++ / AEC: 200	EEC: A+++ / AEC: 200	EEC: A+++ / AEC: 200
ES	EEC: A++	EEC: A++	EEC: A++	EEC: A++
FR	EEC: A++ / AEC: 100 for “Table Top” models (not more than 85 cm height) EEC: A+++ / AEC: 100 for 1-door models	EEC: A+++ / AEC: 200	EEC: A++ / AEC: 201	EEC: A++ / AEC: 201
IT	EEC: A+++ / AEC: 165	EEC: A+++ / AEC: 165	EEC: A++ / AEC: 200	EEC: A++ / AEC: 200
LT	EEC: A+++	EEC: A+++	EEC: A+++	EEC: A+++
LU	EEC: A+++ / AEC: 198	EEC: A+++ / AEC: 198	EEC: A+++ / AEC: 175	EEC: A+++ / AEC: 198
NO	EEC: A+++ / AEC: 75	EEC: A+++ / AEC: 149	EEC: A++ / AEC: 194	EEC: A+++ / AEC: 193
PL	EEC: A+++ / AEC: 200	EEC: A+++ / AEC: 200	EEC: A+++ / AEC: 200	n.a.
PT	n.a.	EEC: A+++	EEC: A+++	EEC: A+++
RO	EEC: A++	EEC: A++	EEC: A++	EEC: A++
SE	EEC: A+++	EEC: A+++	EEC: A+++	EEC: A+++
UK	EEC: A++	EEC: A+++	EEC: A++	EEC: A++

## Comment on cross country comparison of selection criteria

Topten.eu selection criteria for cold appliances are mainly based on the efficiency class with a limit of A+++, and include a maximum allowance for annual energy consumption for some categories. 6 partners (BE, CH, CZ, DE and LU) apply exactly the same selection criteria as topten.eu. ES, LT, RO, SE and UK use the energy efficiency class as single criteria. Only AT followed a different approach by introducing a further criterion next to the energy efficiency class, namely noise emission limits.

The selection criteria for cooling appliances (fridges, combined fridge-freezers, chest and upright freezers) are in general similar to those applied in June 2016. Two further partners (BE and DE) have included additional limits for annual energy consumption to limit the respective Topten product selection to appliances below a certain size as proxy value for compartment volume (which would be complex to handle for combined fridge-freezers). Keeping the same level of ambition for cooling appliances is justified in that sense that the supply marked has well evolved with a decent share of A+++ appliances in the product range, however the sales share for those appliances is continuously growing with further significant potential.

## Overview: sum of categories and subcategories

Over the project period the sum of categories has not changed, but the number of sub-categories has increased from 126 to 140 due to a more refined segmentation of this product category for some partners.

Year	Categories [#]	Sub-categories [#]
2016	61	126
2018	61	140

## Cluster “Washing, Drying & Cleaning”

### Categories

- Washing machine
- Wash-Drier
- Tumble Drier
- Vacuum Cleaner

### Abbreviations

AEC	Annual energy consumption [kWh]
AWC	Annual water consumption (washing machine, dishwasher) [ltr]
CC	Cleaning class (vacuum cleaners, for carpet and hard floor each)
COE	Condensation efficiency class (tumble dryer)
DRE	Dust re-emission class (vacuum cleaner)
EEC	Energy efficiency class
EEI	Energy efficiency index
N	Noise emission [dB(A)]
PC	Rated power consumption [W]
SE	Spinning efficiency class (washing machine)
SEC	Specific energy consumption [kWh/kg]
SS	Spin speed (washing machines) [rpm]
SWC	Specific water consumption [ltr/kg]

## Overview “selection criteria – status January 2018”

Category	Washing machine	Wash-Drier	Tumble Drier	Vacuum Cleaner
Country				
EU	EEC: A+++ / SE: A	SEC: 0.5 kWh/kg / SWC: 12 litres/kg	Domestic: EEC: A++ / COE: B semi-prof: EEC: A++ / COE: A	EEC: A CC (carpet/hard floor): AC, CA or BB DRE: A
AT	EEC: A+++ / SE: B / 5 – 6.5 kg: AEC: 150 7 - 9 kg: AEC: 160	EEC: A / SE: B	< 7kg EEC: A++, COE: B, AEC: < 220 kWh > 8kg EEC: A++, COE: A, AEC: < 240 kWh	EEC: A CC: carpet: C CC: hard floor: B DRE: A N: <=80
BE	EEC: A+++ / SE: A	n.a.	EEC: A++	n.a.
CH	EEC: A+++ / SE: A	n.a.	single households: EEC: A++ / COE: A multiple households: EEC: A++ / COE: A	EEC: A CC (carpet/hard floor): DD DRE: A
CZ	EEC: A+++ / SE: A except slim: SE: B	EEC: A	EEC: A+++	EEC: A CC (carpet/hard floor): AA, AB or BA DRE: A
DE	EEC: A+++ / SE: B	n.a.	EEC: A++ / COE: B	EEC: A PC: max. 900W CC (carpet/hard floor): CB DRE: A
ES	EEC: A+++ / SE: B	n.a.	n.a.	n.a.
FR	EEC: A+++ / SE: A capacity max. 9 kg, AEC: 196 AWC: 11,300 top-loading: AEC: 155 AWC: 9000	n.a.	EEC: A++ / COE: B / AEC: 225	EEC: A CC (carpet/hard floor): BA DRE: A
IT	EEC: A+++ / SE: B Top-loading: AWC: 9,300 Front-loading 5-6,5 kg: AEC: 150, AWC: 9,500 7 kg: AEC: 125, AWC: 9,300 8 kg: AEC: 120, AWC: 10,000 9 kg: AEC: 135, AWC: 11,000	n.a.	EEC: A+++ / COE: B	EEC: A DRE: A with bag: CC (carpet/hard floor): AC, CA or BB / AEC < 27,5 with bag AEC < 28 without bag CC (carpet/hard floor): AC, CA, BB, BC, CB
LT	EEC: A+++	n.a.	EEC: A++	EEC: A / AEC: 28 CC: CA
LU	EEC: A+++ / SE: A / >8 kg 192 AEC <7 kg 183 AEC	n.a.	EEC: A+++ / COE: A	EEC: A DRE: A CC (carpet/hard floor): AB PC: max. 900W
NO	EEC: A+++ < 8 kg: AEC: 125, SE: A/B/C, SS: 1,200 8kg: AEC: 140, SE: B, SS: 1,400. > 8kg: AEC: 188, SE: B, SS: 1,400	n.a.	EEC: A+++ / AEC: 177	n.a.
PL	EEC: A+++ / SE: A	n.a.	EEC: A+++ / COE: A	EEC: A CC (carpet/hard floor): AA DRE: A
PT	EEC: A+++ / SE: A	n.a.	n.a.	EEC: A CC (carpet/hard floor):

				AB, BA or BB DRE: A
RO	EEC: A+++ / SE: B	n.a.	EEC: A++ / COE: B	EEC: A CC (carpet/hard floor): AC, CA or BB DRE: A
SE	n.a.	n.a.	EEC: A++	n.a.
UK	EEC: A+++ / SE: A	n.a.	EEC: A++ / COE: B	EEC: A CC (carpet/hard floor): cylinder: AC, CA or BB upright: CC DRE: A

### Comment on cross country comparison of selection criteria

Topten.eu defines criteria for washing machines based on energy efficiency class and spinning efficiency. This approach is followed by all partner countries (with spinning efficiency classes A or B) which cover this category, apart from LT which set a limit for efficiency class (A+++ only). AT, FR, IT, LU and NO introduce additional criterion (e.g. annual energy consumption, annual water consumption, etc.). Compared to the selection criteria update in June 2016 all countries apart from LT use spinning efficiency classes as selection criteria. In general the values for the status in January 2018 are kept the same. AT have slightly tightened the limit for annual energy consumption and IT replaced the concept of using EEI (which cannot be directly followed by consumers without own calculations) by applying annual energy consumption limits together with efficiency class limits.

Regarding wash driers as a niche product category, selection criteria are defined by topten.eu (based on energy and water consumption levels per kg). Only AT and CZ also cover this category with the energy efficiency class as selection criteria. The coverage on national level as well the level of ambition is sustained compared to June 2016. In this category the market situation appears to be quite stable as there is no 2<sup>nd</sup> generation efficiency label in place.

For tumble drier topten.eu sets limits for energy efficiency class and condensation efficiency class. This concept is followed by AT, CH, DE, FR, IT, LU, PL, RO and UK (FR additionally includes a criterion for annual energy consumption). BE, CZ, LT and SE set a limit for efficiency class only, while NO additionally includes a criterion for annual energy consumption. The selection criteria has been slightly tightened by some partners (AT, CH, FR) compared to evaluation based on data from June 2016, by introducing maximum allowances for annual energy consumption and requiring a better condensation efficiency class.

Topten.eu's selection criteria for vacuum cleaners are based on energy efficiency class and combined sets for carpet and hard floor cleaning class as well as a limit for dust re-emission. All partners which cover this category (AT, CH, CZ, DE, FR, IT, LT, LU, PL, PT, RO and UK) use a concept similar to that of topten.eu, but with some minor deviations. AT introduced noise emission as an additional criterion. DE and LU additionally introduced maximum allowed power consumption as selection criteria for vacuum cleaners. BE, ES, NO and SE do not cover this product category. For vacuum cleaners a further increase of the top segment's energy efficiency could be observed, since several partners set more ambitious levels for energy efficiency classes resp. introduced this criterion (instead of "rated power consumption"). Overall the selection criteria has been maintained as in June 2016, however FR, IT and LU have increased the level of ambition. Since the last review in 2016, FR and IT set the minimum selection criteria for the dust re-emission class from B to A.

## Overview: sum of categories and subcategories

Over the project period the sum of categories has increased by one, and the number of sub-categories has increased from 91 to 103 again due to a more refined segmentation of this product category for some partners.

Year	Categories [#]	Sub-categories [#]
2016	45	91
2018	46	103

## Cluster “Kitchen appliances”

### Categories

- Dishwasher
- Oven
- Range hood
- Coffee machine

### Abbreviations

AEC	Annual energy consumption [kWh]
AWC	Annual water consumption (dishwasher) [ltr]
DEC	Drying efficiency class (dishwasher)
EEC	Energy efficiency class
EEL	Energy efficiency index
FD	Fluid dynamics class (range hood)
GF	Grease filtering class (range hood)
LE	Lighting efficiency class (range hood)
N	Noise emission [dB(A)]
OP	On mode power [W]
PS	Place settings (dishwasher)
SBP	Stand by power [W]
SWC	Specific water consumption (dishwasher) [ltr/cycle]

## Overview “selection criteria – status January 2018”

Category	Dishwasher	Oven	Range hood	Coffee machine
Country				
EU	Built-in EEC: A+++ Freestanding EEC: A++ AWC: 2800	EEC: A+	All: FD: A LE: A Island range hoods: EEC: A, GF: B Wall range hoods: EEC: A+, GF: C Telescopic and integrated range hoods: EEC: A, GF: C	Low energy consumption effective auto power down Portioned machines: AEC: max. 35 Fully automatic machines: AEC: max. 45
AT	Built-in EEC: A+++; N: 44 Freestanding: EEC: A++, N: 45	Built-in EEC: A+ Freestanding EEC: A EEL: 100	EEC: A N: 65 GF: B	n.a.
BE	EEC: A+++	n.a.	n.a.	n.a.
CH	Built-in 55cm: EEC: A++ Built-in 60cm: EEC: A+++ Freestanding: EEC: A++ DEC: A	Steamer: EEC: A+ Oven EEC: A+ No pyrolysis	same as topten.eu	same as topten.eu

CZ	60cm EEC: A+++ 45cm EEC: A++ DEC: A AWC: 2,800	n.a.	same as topten.eu	same as topten.eu
DE	60cm EEC: A+++ / N: 44 45cm EEC: A++ / N: 46 AWC: 2,800	Only general information available	Only general information available	same as topten.eu
ES	EEC: A+++ / DEC: A	n.a.	n.a.	n.a.
FR	60cm EEC: A+++ 45cm EEC: A+ DEC: A AWC: 2,800 N: 47	n.a.	n.a.	same as topten.eu
IT	Compact EEC: A+ AEC: 180 45 cm EEC: A++, AWC: < 2,520 60 cm built-in: EEC: A+++ AWC: < 2,520 EEI: 45; 60 cm freestanding EEC: A+++ AWC: < 2,520 EEI: 48	EEC: A+ EEI: 81	n.a.	n.a.
LT	n.a.	n.a.	n.a.	n.a.
LU	60cm EEC: A+++ 45cm EEC: A+++ SWC: 14 ; N: 47, AEC: 247	n.a.	n.a.	AEC: 70 Pressure min. 15 bar SBP: 1W off-timer max 5 hrs AEC: 61
NO	EEC: A+++ AEC: 234 N: 46 place settings min. 13	n.a.	n.a.	n.a.
PL	EEC: A+++ DEC: A AWC: < 2,700	n.a.	n.a.	same as topten.eu
PT	EEC: A+++ DEC: A	EEC: A+	n.a.	same as topten.eu
RO	EEC: A++ DEC: A	n.a.	n.a.	n.a.
SE	n.a.	n.a.	n.a.	n.a.
UK	EEC: A+++ DEC: A SWC: 10	EEI: < 82 EEC: A+ No pyrolysis	EEC: A FD: A LE: A Chimney and Integrated hoods: GF: C Island hoods GF: B	n.a.

### Comment on cross country comparison of selection criteria

Topten.eu defines criteria for dishwashers based on energy efficiency class and annual water consumption. CZ, DE, IT and PL follow this approach, whereas many others use an efficiency class criterion, combined with limits for either noise emission or drying efficiency class. Some partners (CH, IT, PL) have tightened the selection criteria, whereas all other partners have maintained the same criteria sets as in June 2016.

For ovens topten.eu has introduced an efficiency class limit, which is replicated by CH and PT. AT, IT and the UK have additionally added energy efficiency index as criterion. AT and IT have slightly upgraded the criteria, DE has introduced general information, but do not maintain product lists.

Range hoods are maintained by topten.eu and defines criteria based on energy efficiency class, lighting efficiency class and grease filtering class. For range hoods the criteria for fluid dynamics class is also defined. AT, CH, CZ, DE and UK cover this category. CH and CZ follow directly topten.eu's concept. AT introduced noise emission as an additional selection criterion.

### Overview: sum of categories and subcategories

Over the project period the sum of categories has not changed, but the number of sub-categories has increased from 87 to 96 for the same reasons as mentioned for the cluster "Washing, Drying & Cleaning".

Year	Categories [#]	Sub-categories [#]
2016	36	87
2018	36	96

## 4. Section “Lighting”

### Categories

- LED classic lamp
- LED spot
- Tubes
- Office luminaire

### Abbreviations

CRI	Color Rendering Index
CT	Colour temperature [K]
EE	Energy efficiency
EEC	Energy efficiency class
EEL	Energy efficiency index
LE	Lamp efficacy [lm/W]
LT	Lamp life time [hrs]
SC	Switching cycles

### Overview “selection criteria – status January 2018”

Category	LED classic lamp	LED spot	Tubes	Office luminaire
Country				
EU	LED classic lamps (E14 & E27, non-dimmable): EEC: A++ LE: 115 LED classic lamps (E14 & E27, dimmable): EEC: A+ LE: 100 LED special lamps (B22, G9, G4, E10): LE: 100  LT: 15,000 SC: 20,000	LED spots (E14, E27, GU 5.3, GU 10): EEC: A+ LE: 75 LT: 15,000 SC: 20,000	LED tubes (T5 & T8), linear halogen lamps (R7S): EEC: A+ LE: 105 LT: 15,000 SC: 20,000	CRI: 80 LT: 30,000 MINERGIE-certificated
AT	E27: replacement <30 W LE: 75 40 W: LE: 80 60-75 W: LE: 80 100W: LE: 90 LT: 15,000 E14: replacement 20-30W: LE: 70 >30W: LE: 70 LT: 15,000	GU 10: =< 35W: LE: 65 GU 10: => 40W: LE: 70 LT: 15,000 GU 5.3: =< 35W: LE: 70 GU 5.3: => 40W: LE: 70 LT: 15,000 E14: LE: 65 E27: LE: 70 LT: 15,000	n.a.	downlights: LE: 70 floor lamps: LE: 90 wall lights: LE: 85 mounted ceiling luminaire: LE: 95 recessed ceiling luminaires: LE: 85 pendant luminaires: LE: 90
BE	E27: LT: 15,000 SC: 75,000 LE: 55 E14: LT: 12,000 SC: 50,000 LE: 45	LT: 12,000 SC: 50,000 LE: 45	n.a.	n.a.
CH	same as topten.eu	same as topten.eu	same as topten.eu	same as topten.eu
CZ	EEC: A++ LT: 15,000 SC: 20,000	EEC: A+ LE: 75 LT: 15,000 SC: 20,000	n.a.	n.a.



	CT: 2700	CT: 2700		
DE	EEC: A+ LE: 80 LT: 20,000 SC: 50,000	EEC: A+ LE: 60 LT: 20,000 SC: 50,000	n.a.	n.a.
ES	E14, E27, candle: EEC: A++ LE: 80 LT: 20,000 CT: max. 3,500	EEC: A+ LE: 80 LT: 20,000 CT: max. 3,500	n.a.	n.a.
FR	LE: 110 LT: 15,000 SC: 30,000 Warm white: CT: max. 3,500 at least 200 lm	LE: 80 or 65 (if dimming capability) LT: 15,000 SC: 30,000 Warm white: CT max. 3500 at least 200 lm	n.a.	n.a.
IT	All models: EEC: A++ LT: 15,000	All models: EEC: A+ LE: 75 LT: 15,000 E14: LE: 70 GU 10: 400 – 500 lm: LE: 83	n.a.	n.a.
LT	=<750 lm: LE: 75 =<1,200 lm: LE: 80	n.a.	n.a.	n.a.
LU	EEC: A++, LE: Max. 100 Type "A35" and "45": LE: 60 bulbs type A60: LE: 70 LT: 15,000 Type A35 and A45 LT: 15,000 SC 50,000 CT: 4,000	EEC: A++ Spot (GU10, E27, E14): LE: 55 LT: 15,000 CT: 4,000	LE: 90 LT: 15,000 CT: 6,500	n.a.
NO	All: EEC: A/A+, min. 200lm, CT: 3,500, LT: 25,000 E14 classic form, LE: 60 E14 candle form, LE: 80 GU10: LE: 80 E27: LE: 80	n.a.	n.a.	n.a.
PL	EEC: A++, LE: 85 LT: 15,000 SC: 20,000	EEC: A+ LT: 15,000 SC: 20,000	n.a.	n.a.
PT	LE: 80 LT: 20,000 SC: 50,000	LE: 65 LT: 20,000 SC: 40,000	LE: 80 LT: 20,000 SC: 50,000	EEC: A LE: 100 LT: 50,000
RO	LE: < 300 lm: LE: 45 300 to 470 lm: LE: 50 > 600 lm: LE: 60 LT: 15,000 SC: 20,000	LE: 45 LT: 15,000 SC: 50,000	n.a.	n.a.
SE	EEC: A++ LT: 15,000 SC: 20,000	EEC: A+ or min. LE: 75 LT: 15,000 SC: 20,000	T5/G5: EEC: A+ or LE: min. 130	n.a.
UK	EEC: A+ LE: 75	EEC: A+ LE: 60	n.a.	n.a.

### Comment on cross country comparison of selection criteria

Topten.eu defines selection criteria for LED classic lamps and LED spots based on energy efficiency class, lamp life time, switching cycles and lamp efficacy. CH, DE, and PL follow this approach, but require different levels for certain parameters. All partners apart from CZ, IT and SE use the criteria of lamp efficacy. CZ, IT and SE use energy efficiency class as criterion instead.

It is evident, that the market for lighting products has evolved to a great extent during our evaluation period between June 2016 and January 2018. Topten.eu, AT, CZ, DE, ES, FR, IT, LT, LU, PL and SE have increased either the requirements for LED classic lamps and LED spots concerning efficiency class or the minimum level for lamp efficacy. However the Topten teams have had to cope with the trend imposed by industry offering lamp models with a lower declared lamp life time. Several partners have therefore softened the criteria for lifetime (mainly from 20,000 to 15,000 hrs) aiming at a compromise for high efficiency level and still sufficient life time values.

The category tubes was reviewed instead of CFLs for this report. So far only topten.eu, CH, LU, PT and SE cover this category.

### Overview: sum of categories and subcategories

Over the project period the sum of categories has increased by two, and the number of sub-categories has increased from 149 to 191 again due to a more refined segmentation of this product category for some partners.

Year	Categories [#]	Sub-categories [#]
2016	36	149
2018	38	191

## 5. Section “Office Equipment”

### Categories

- Computer monitor
- Notebook
- Laser printer
- Laser multifunctional

### Abbreviations

AEC	Annual energy consumption [kWh]
D	Screen size [Inch]
EEL	Energy efficiency index
OP	On mode power consumption [W]
PM	Pages per minute
SBP	Stand by power [W]
TCO	Total cost of ownership
TEC	Typical electricity consumption [kWh/week]

### Overview “selection criteria – status January 2018”

Category	Computer monitor	Notebook	Laser printer	Laser multifunctional	Inkjet
Country					
EU	D <17" OP:13 17-20" OP: 18 20-22" OP: 20 >22": OP: 22 SBP: 0.5 Energy Star	TCO 5 Notebooks	Energy Star v2.0 registered Recycled paper: (be able to print on) Duplex: PM >= 19 colour: EEL: 60 monochrome: EEL: 70	Energy Star v2.0 registered Recycled paper: (be able to print on) PM Duplex: min 19 EEL colour: 40 EEL monochrome: 60	Single Ink technology (ink cartridges can be replaced separately) Registered at EnergyStar or meet comparable requirements SBP: < 1.5 W
AT	D 20"/21"/22" OP: 14 D 23"/24" OP: 14 D >27" OP: 18 TEC value acc. Energy Star	n.a.	colour: PM 1-20: EEL: 40 PM >21: EEL: 40 monochrome: PM 1-30: EEL: 60 PM >31: EEL: 50 TEC value according to Energy Star	colour: PM 1-20: EEL: 30 PM 21-40: EEL: 20 PM >40: EEL:30 monochrome: PM 1-20: EEL: 40 PM 21-40: EEL: 30 PM 40: EEL: 25 TEC value acc. Energy Star	n.a.
BE	same as topten.eu	n.a.	same as topten.eu	same as topten.eu	same as topten.eu
CH	D <17" OP:13 17-20" OP: 18 20-22" OP: 20 >22": OP: 22 SBP: 0.5 TCO Label	same as topten.eu	same as topten.eu	same as topten.eu	n.a.
CZ	n.a.	n.a.	same as topten.eu	n.a.	n.a.
DE	same as topten.eu	Only general information available	Only general information available	Only general information available	Only general information available
ES	same as topten.eu + TCO Label	n.a.	same as topten.eu	monochrome: PM 1-20: EEL: 45 PM 21-40: EEL: 40 PM 41-100: EEL 40 colour: PM: 1-20: EEL: 45 PM 21-40: EEL: 40 PM 41-100: EEL: 40	SBP: < 1W Be registered at Energy Star or meet comparable requirements, print in recycled paper

				Registered at Energy Star, print in recycled paper	
FR	same as topten.eu	n.a.	same as topten.eu	same as topten.eu	same as topten.eu
IT	D 19-19,5" AEC: 38.5 D 20-21.5" AEC: 42.5 D 22-23.6" AEC: 44 D 23.8-24" AEC: 46.5 D 25-27" AEC: 50 Energy Star and TCO labels	n.a.	same as topten.eu	same as topten.eu	same as topten.eu
LT	same as topten.eu	n.a.	same as topten.eu	same as topten.eu	same as topten.eu
LU	EEC: A+ or superior - Energy Star Label 6.0 or 5.1, TCO Label SBP: 0.5 Electricity costs: 19 €/5 years		EEI: 21.1 available in Luxembourg, Energy Star Label or similar recycled paper, duplex PM 1 – 20: EEI: 45 (monochrome), 30 (colour) PM 21 – 100: EEI 35 (monochrome), 30 (colour)	EEI: 21.1 available in Luxembourg, Energy Star Label or similar recycled paper, duplex PM 1 – 20: EEI: 45 (monochrome), 30 (colour) PM 21 – 100: EEI 35 (monochrome), 30 (colour)	EEI: 21.1 available in Luxembourg, Energy Star Label or similar recycled paper, duplex PM 1 – 20: EEI: 45 (monochrome), 30 (colour) PM 21 – 100: EEI 35 (monochrome), 30 (colour)
NO	n.a.	n.a.	n.a.	n.a.	n.a.
PL	same as topten.eu	n.a.	same as topten.eu	same as topten.eu	same as topten.eu
PT	same as topten.eu	n.a.	same as topten.eu	same as topten.eu	Energy Star 2.0 and SBP: 1,5W
RO	n.a.	n.a.	same as topten.eu	same as topten.eu	Energy Star registered SBP: 1,5W
SE	TCO label SBP: 0.5 D 21-24.9 " OP: 14 D 25-29.9 " OP: 23 D 30+ " OP: 45	n.a.	Monochrome only available on Energy Star EU Duplex PM 30-40 TEC: 2.2	Available on Energy Star EU Duplex PM 16-30 TEC: 1.8	n.a.
UK	n.a.	n.a.	n.a.	n.a.	n.a.

### Comment on cross country comparison of selection criteria

Topten.eu's criteria for computer monitors are based on on-mode power consumption. BE, CH, DE, ES, FR, LT, PL and PT use topten.eu limits. AT and SE introduced country specific levels. IT has changed the concept and uses annual energy consumption limits instead. All partners who cover this category use either the Energy Star or TCO Label, or both. Notebooks are maintained on topten.eu and CH only, whereas DE also provides some general information on this topic.

For laser printers and laser multifunctional devices topten.eu defines criteria based on Energy Star, introducing a new "energy efficiency index" as ratio of the actual value for Energy Star's "Typical Energy Consumption" to maximum levels, defined in the Energy Star Programme Requirements.

BE, CH, CZ, ES, FR, IT, LT, PL, PT, and RO follow topten.eu's approach directly, whereas others define country specific levels. The limits have been maintained just like the status of June 2016.

The criteria for inkjet printers are based on Energy Star, including a limit for standby power and have been kept constant since 2016.

**Overview: sum of categories and subcategories**

Over the project period the sum of categories has increased by one category, and the number of sub-categories has increased from 179 to 191.

Year	Categories [#]	Sub-categories [#]
2016	52	179
2018	53	191

## 6. Section “Consumer Electronics”

### Categories

- TV

### Abbreviations

D	Screen size [Inch] or [cm]
EEC	Energy efficiency class
EEL	Energy efficiency index
OP	On mode power [W]
SBP	Stand by power [W]

### Overview “selection criteria – status January 2018”

Category	TV
Country	
EU	D < 70cm: EEC: A D 70 to 100cm: EEC: A+ D 100cm and more: EEC: A++ All: OP: 64, SBP: 0.5  UHD and 4K: D > 70cm: EEC: A+ All: OP: 85
AT	D 24"-30": EEL <=0.27 D 32"-39": EEL <=0.23 D 40"-43": EEL <=0.22 D 46"-52": EEL <=0.20 D 55"-65": EEL <=0.20 SBP: <= 1
BE	same as topten.eu
CH	D < 70cm: EEC: A D 70 to 100cm: EEC: A+ D 100cm and more: EEC: A++  4K: D <165cm: EEC: A+ 0.5W SBP
CZ	D < 70cm: EEC: A D 70 to 120cm: EEC: A+ D 120cm and more: EEC: A++ All: 64W OP, 101-120cm: 50W OP
DE	D < 70cm: EEC: A D 70 to 120cm: EEC: A+ D 120cm and more: EEC: A++ All: 70W OP
ES	EEC: A+ (EEL <0.23) EEC: A++ (EEL <0.16) 60W OP 0.5W SBP
FR	All: 64W OP, 0.5W SBP D >= 70 cm: EEC: A and EEL 0.3 D 70 - 100 cm: EEC: A+ and EEL 0.23 D > 100 cm: EEC: A++ and EEL 0.16  4K: 85W OP: EEC: A+ and EEL 0.23 0.5W SBP
IT	D >= to 31" EEC: A+, OP 35W D 32"-37" EEC: A+, OP 45W D 38"-43" EEC: A+, OP 55W D 44"-49" EEC: A++, OP 67W D 50"-55" EEC: A++, OP 86W

	UHD <=43" AEC: 90 UHD > 43" AEC: 95
LT	same as topten.eu
LU	D <40": EEC: A+ D >40": EEC: A++ SBP: 0.5, OP: 80
NO	D 26-32" EEC: A, AEC: 54, OP: 44, SBP: 1 D 40-42": EEC: A+, AEC: 66, OP: 45, SBP: 0.5
PL	same as topten.eu
PT	same as topten.eu
RO	D <100 cm: EEC: A D >100 cm: EEC: A+ OP: 64 SBP: 0.5
SE	D ≤37" EEC: A+ D ≥ 38" EEC: A++
UK	D <49" EEC: A+, OP: 70 D ≥ 50" EEC: A+, OP: 90 D no greater than 59"

### Comment on cross country comparison of selection criteria

Topten.eu introduces criteria for TV sets based on efficiency classes for size ranges and all partners maintain this product category on national level, partly combined with limits for on mode power (CH, CZ, DE, ES, IT, LT, LU, PL, PT, RO, UK), annual energy consumption (NO) or energy efficiency index (AT, FR). Newly introduced are the sub-categories 4K (or UHD - Ultra High Definition) in topten.eu, BE, FR, IT, LT, PL and PT. The remaining partners do not handle this sub-category with specific criteria.

### Overview: sum of categories and subcategories

Over the project period the sum of categories has been kept constant, whereas the number of sub-categories has increased from 67 to 70.

Year	Categories [#]	Sub-categories [#]
2016	16	67
2018	16	70

## 7. Section “Building Components”

### Categories

- Circulation pump
- Electric water heater
- Air conditioner
- Motor
- Heat pump

### Abbreviations

COP Coefficient of performance  
 EEC Energy efficient class  
 EEI Energy efficiency index  
 SEER Seasonal energy efficiency index  
 SCOP Seasonal coefficient of performance

### Overview “selection criteria – status January 2018”

Category	Circulation pump	Electric water heater	Air conditioner	Heat pump
Country				
EU	EEI: 0.23	Certified with Swiss FWS quality Label COP: 2.9 (for air temperature 15°C and 7°C) COP: 3.2 (for air temp. 20°C) Measured according to EN 16147:2011	Cooling / heating efficiency: A++/A+, except for Split ≤ 4 kW: A+++/A++	n.a.
AT	EEI: 0.23	Standby energy consumption in 24 hrs/10 litres [kWh]: small water heaters capacity < 5 ltr: ≤0.7 > 10 ltr: ≤0.4 wall mounted 30 - 50 ltr: ≤0.2 70 - 100 ltr: ≤0.1 >100 ltr: ≤0.1 base mounted: ≤0.075	Split cooling / heating: EEC: A++/A+ max. 60dB(A) mobile: EEC: A+	direct evaporator: SEER >130, <60 dB air-water: SEER >120, <60 dB sole-water: SEER >140, <60 dB water-water: SEER >170, <60 dB process water: SEER >110, <60 dB
BE	same as topten.eu	n.a.	n.a.	n.a.
CH	same as topten.eu	same as topten.eu	same as topten.eu	air-water: COP ≥ 3.6 sole-water: COP ≥ 4.6 water-water: COP ≥ 5.7
CZ	n.a.	n.a.	n.a.	n.a.
DE	Only general information available	Only general information available	n.a.	Only general information available
ES	n.a.	n.a.	Split: A+++/A++ Multisplit A++/A+ (cooling / heating)	n.a.
FR	n.a.	n.a.	n.a.	n.a.
IT	n.a.	n.a.	Up to 4 kW (cooling): EEC/COP: A+++/A++, 4.1 to 5 kW (cooling): SEER: 8.4, SCOP: 4.6 –A++/A+, > 5 kW (cooling): SEER:	n.a.



			6.7, EEI/COP: A++/A+, SCOP: 6	
LT	n.a.	<100 litres - <1.0 kW/24h , 100-125 litres - <1.2 kW/24h	EEC: A+++/A+++ SEER: 8,5	n.a.
LU	EEI: 0.23, A+	n.a.	n.a.	n.a.
NO	n.a.	n.a.	n.a.	n.a.
PL	EEI: 0.27	n.a.	n.a.	n.a.
PT	n.a.	n.a.	<= 3,4 kW: A+++/A+++ >3,5: A++/A+	n.a.
RO	n.a.	n.a.	Cooling/Heating efficiency: Split<4 kW: EEI/COP: A+++/A++ Split >4 kW EEI/COP: A++/A+ Multisplit EEI/COP: A++/A+	n.a.
SE	same as topten.eu	n.a.	n.a.	n.a.
UK	n.a.	n.a.	n.a.	n.a.

### Comment on cross country comparison of selection criteria

Topten.eu defines criteria for circulation pumps with an EEI of 0.23 or less. This approach is followed by AT, CH, LU, and SE. Poland accepts a slighter higher EEI of 0.27. The set of criteria reviewed in January 2018 remain the same as in June 2016. The remaining countries do not cover this product category.

Topten.eu defines criteria for electric water heaters based on the FWS Quality Label in Switzerland and the coefficient of performance. Naturally, CH shares these criteria. With slightly different parameters AT and LT also cover this product category. All other countries do not cover this product category.

Topten.eu defines criteria for air conditioners on the energy efficiency class for cooling and heating. CH and PT follow the exact topten.eu criteria. AT, ES, IT, LT, PT and RO all cover this category as well, using the energy efficiency class as criteria combined with various other parameters. The criteria has been tightened by AT and IT compared to the status in June 2016.

Heat pumps are maintained by AT, CH whereas AT has changed the concept using SEER instead of COP. DE provides general information only.

### Overview: sum of categories and subcategories

Over the project period the sum of categories has increased by two categories, whereas the number of sub-categories has decreased from 95 to 87.

Year	Categories [#]	Sub-categories [#]
2016	21	95
2018	23	87

## 8. Section “Professional Refrigerators”

### Categories

- Beverage Cooler (BC)
- Ice Cream Freezer (ICF)
- Horizontal Display Freezer (HDF)
- Vertical Chilled Display Cabinet (VCDC)
- Storage Refrigerator (SR)
- Storage Freezer (SF)
- Storage Refrigerator-Freezer (SRF)
- Minibar (MB)
- Wine Cooler (WC)

### Overview “categories provided on specific Topten platform”

Category	BC	ICF	HDF	VCDC	SR	SF	SRF	MB	WC
Country									
EU	Y	Y	Y	Y	Y	Y	Y	Y	Y
AT	Y	Y	Y	Y	Y	Y	N	N	N
BE	N	N	N	N	N	N	N	N	N
CH	Y	Y	Y	Y	Y	Y	Y	Y	Y
CZ	Y	Y	Y	Y	Y	Y	Y	Y	Y
DE	Y	Y	Y	Y	Y	Y	Y	Y	Y
ES	N	N	N	N	N	N	N	N	N
FR	Y	Y	Y	Y	Y	Y	N	Y	Y
IT	Y	Y	Y	Y	Y	Y	Y	Y	Y
LT	N	N	N	N	Y	Y	N	N	N
LU	Y	N	N	N	Y	Y	N	N	N
NO	N	N	N	N	N	N	N	N	N
PL	N	N	N	N	N	N	N	N	N
PT	Y	Y	Y	Y	Y	Y	Y	Y	Y
RO	N	N	N	N	N	N	N	N	N
SE	Y	Y	Y	Y	Y	Y	Y	Y	N
UK	N	N	N	N	N	N	N	N	N

### Comment on cross country comparison of selection criteria

Several Topten platforms list best performing commercial cooling appliances, identified by EU funded project PRO Cold (<http://www.pro-cold.eu/>). PRO Cold applies efficiency criteria, based on methodologies specified for professional refrigerated storage cabinets (EU regulation 2015/1094) and for refrigerated commercial display cabinets (working document for future EU regulation).

Please find details to the respective criteria descriptions, provided by PRO Cold:

- Professional Storage Refrigerators  
<http://www.pro-cold.eu/english/criteria/professional-storage-refrigerators.html>
- Professional Storage Refrigerators  
<http://www.pro-cold.eu/english/criteria/professional-storage-refrigerators.html>

- Vertical Chilled Display Cabinets  
<http://www.pro-cold.eu/english/criteria/professional-display-refrigerators-crit.html>
- Beverage Coolers  
<http://www.pro-cold.eu/english/criteria/beverage-coolers-2.html>
- Ice Cream Freezers  
<http://www.pro-cold.eu/english/criteria/ice-cream-freezers-3.html>
- Supermarket Freezers  
<http://www.pro-cold.eu/english/display-cabinets/supermarkt-freezers-4.html>
- Refrigerator-Freezers  
<http://www.pro-cold.eu/english/criteria/professional-storage-refrigerators.html>
- Minibars  
<http://www.pro-cold.eu/english/criteria/minibars-crit.html>
- Wine Coolers  
<http://www.pro-cold.eu/english/criteria/wine-coolers-2.html>

As a generic procedure some Topten partners present those products, which are actually available in the respective national market, directly relying on the PRO Cold selection criteria.

#### Overview: sum of categories and subcategories

Year	Categories [#]	Sub-categories [#]
2016	67	98
2018	67	98

## 9. Statistical Overview

Number of categories and subcategories, and average length of Topten lists.

### Number of categories and subcategories, January 2018

Section / Cluster	Categories [#]	Sub-categories [#]
Cars	25	123
Cooling appliances	61	140
Washing, Drying & Cleaning	46	103
Kitchen appliances	36	96
Lighting	38	191
Office Equipment	53	191
Consumer Electronics	16	70
Building Components	23	87
Professional Refrigerators	67	98
<b>TOTAL</b>	<b>365</b>	<b>1099</b>

### Overview “average length of Topten lists”, January 2018

	Average length [# of products/subcategory]
Country	
<b>EU</b>	11 to 20
AT	21 to 30
BE	11 to 20
CH	Above 30
CZ	21 to 30
DE	Above 30
ES	11 to 20
FR	11 to 20
IT	11 to 20
LT	Up to 10
LU	21 to 30
NO	Up to 10
PL	Up to 10
PT	21 to 30
RO	Up to 10
SE	Up to 10
UK	Up to 10

The total number of actual product references was estimated based on the typical average product list length specific for every national platform multiplied with the number of subcategories maintained by the respective partners, resulting in a total number of product references presented by all partners to 21,745 units in January 2018 compared to 17,780 units in June 2016. This is an increase by 22,3 % and demonstrates that all partners continuously expand their range of products.