Energy efficiency reduces costs and environmental pollution



Professional buyers that place emphasis on energy efficient refrigerated cabinets

- meet environmental targets
- save on electricity costs
- 🏶 act in an exemplary way

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Large energy savings

Beverage coolers, vending machines, storage cabinets, counters and ice cream freezers consume a great deal of energy and contain climatedamaging refrigerants. However, there exist alternatives. Be sure to choose most energy efficient models with climate-friendly refrigerants.

Beverages do not need to be refrigerated at night

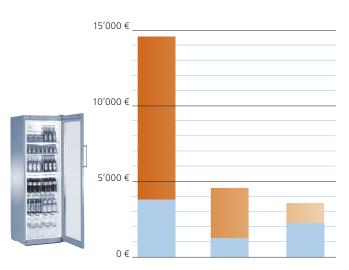
Integrated energy management systems can automatically switch beverage coolers into sleep-mode after opening hours. Energy saving potential: 15 % to 45 %.

Cover ice cream freezers at night

Night covers help to additionally reduce energy costs of ice cream freezers. Ideal night covers are integrated in the cabinet.

Doors and lids are number one priority

They comprise the largest energy savings of all improvement options. Closed display cabinets use three times less energy than open ones. Open display cabinets can be retrofitted with doors and lids. This achieves energy savings of 40 %.



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Example of	without door	with door	with door
beverage coolers	without door	with door	with door
Volume	324 litres	350 litres	346 litres
Energy	6′753 kWh/a	2′168 kWh/a	944 kWh/a
Electricity costs*	10′800 €	3′470 €	1′510 €
Purchase price	3′760 €	1′170 €	2′120 €
Total costs	14′560 €	4′640 €	3′630 €

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Example of ice cream freezers	without lid	with lid	with lid
Volume	151 litres	183 litres	190 litres
Energy	4'636 kWh/a	1′991 kWh/a	584 kWh/a
Electricity costs*	7′420 €	3′190 €	930 €
Purchase price	3′570 €	980 €	1′290 €
Total costs	10′990 €	4′170 €	2′220 €

^{* 8} years, 0.2 €/kWh



Refrigerants like R290, R600a or $\rm CO_2$ (R744) have minimal global warming potential (GWP). Their GWP is below 4. Using climate-friendly refrigerants is future-oriented: the EU will ban climate-damaging refrigerants like R404A from 2020 and R134a from 2022. GWP of those refrigerants is around 4'000 and 1'400 respectively.

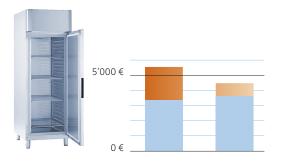


Topten models lead the way

Find the most energy efficient plug-in refrigerated cabinets with one click on Topten. All listed cabinets use climate-friendly refrigerants. Technical criteria are strengthened regularly to reflect the latest market developments. Product information is harmonised, which makes the comparison between all models and brands easy. Topten is independent from manufacturers and sellers of products listed on the website.

The best products on the European market





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Example of storage refrigerators	typical	efficient
Volume	450 litres	489 litres
Energy	1′348 kWh/a	408 kWh/a
Electricity costs*	2′160 €	650 €
Purchase price	3′250 €	3′830 €
Total costs	5′410 €	4′480 €

* 8 years, 0.2 €/kWh

Green procurement

Is the procurement of green cabinets already part of your organisation's environmental strategy?

Easy procurement criteria help you choosing green products. Purchase:

- Topten products or use the Topten technical criteria in calls for tender
- ♣ Display cabinets with doors and lids
- * Cabinets with climate-friendly refrigerants
- Beverage coolers equipped with energy management systems
- * Ice cream freezers with integrated night covers



ProCold – energy efficient and climate-friendly into the future

ProCold is an EU-project aiming to improve energy efficiency in plug-in cabinets and speed up the switch to climate-friendly refrigerants.

Product groups covered include: refrigerated storage cabinets, refrigerated display cabinets, beverage coolers, ice cream freezers, vending machines, wine coolers and minibars.

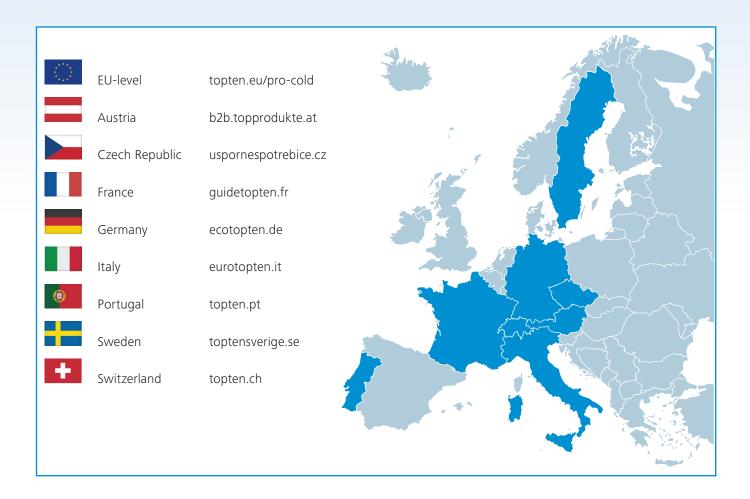
The project involves manufacturers, suppliers, food and beverage companies, retailers, restaurants, hotels and public authorities on the EU-level and in eight European countries.



More information: topten.eu/pro-cold Contact: pro-cold@topten.eu

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