



## **D6.2: CALCULATION TOOL.**

**WP6: Dissemination – know-how transfer to procurers and users why and how commercial refrigeration can improve**

*Task 6.2: Calculation tool*

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## Project Partners



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### What is the ProCold calculator?

The ProCold calculation tool is designed to help buyers of new refrigerators and freezers in the commercial sector to save electrical energy and money. The comparison between the existing refrigerators (which the customer wants to replace) and the new energy efficient devices is the main function of this tool. The results of the calculation provide information about the energy- and cost savings.

### How does it work?

This short step by step guide shows you how to use the ProCold calculation-tool. First of all – to enable a comparison between the existing refrigerator/freezer and the efficient device, the tool needs some input data (cells with gray background colour):

input data (step by step)	cells
1) Select right country (e.g. Austria) – the language will be set automatically	P3
2) Fill in the country specific tariff and CO <sub>2</sub> emission factor (e.g. 0,12 €/kWh and 0,44 kg CO <sub>2</sub> /kWh)	P7, P8
3) Select type of your own devices (existing refrigerators/freezers) with the help of the drop down menu (e.g. Storage Counter Refrigerators)	P10
4) Fill in the nominal volume of the respective refrigerator/freezer (e.g. 315 L)	P13
5) Fill in the annual energy consumption of your device (e.g. 1533 kWh/a) - you can also use the slider	P15
6) How many products of the same category do you have? (e.g. 3x Storage Counter Refrigerator)	P17
7) Enter the service life of your device (e.g. 8 years)	P19
8) Fill in the purchase price of your own device (e.g. 1000 €)	P21
9) Fill in the purchase price of the new efficient device (e.g. 1200 €)	P22

With this information the tool is able to calculate the total cost of ownership and presents the result (cells with green background colour):

output data	cells
total energy saved (related to service life)	N27
total energy costs saved (related to service life)	R27
total CO <sub>2</sub> emissions saved (related to service life)	T27
grey CO <sub>2</sub> emissions (related to the liters of selected device)	T29
Energy Class of your own device	Q29
Energy Class of efficient device	Q30

There is also a tip-link which you can use to instantly find the most efficient devices for your selected product category (e.g. Counter Storage Refrigerators).

The calculator will be uploaded on ADEME´s file sharing platform and can be used by the project partners.