

# COST-CONSCIOUS FILTER SELECTION WITH TROX - LCC ENERGY FILTER - SIMPLE. SUSTAINABLE. SAVINGS.

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In commercial environments, between 10 and 20% of electrical energy is consumed in Europe for the purpose of powering fans in room air conditioning systems. Indeed, one third of the energy requirement alone is required to overcome the flow resistance of the filters used. While it was previously only possible to assess filters based on how effectively they removed particles from the air and not in terms of how energy-efficient they are in operation, the energy-related assessment is now receiving much more attention.

TROX has developed a Life Cycle Cost (LCC) tool in order to calculate the economic efficiency of fine dust filters on the basis of the strict Eurovent energy efficiency classification. With the aid of their individual usage data, customers have the option of selecting the filter that offers the highest level of economic efficiency compared to other filters in terms of investment, energy and maintenance costs.

Energy costs offer the largest savings potential – up to 60% depending on the filter. Influencing criteria for the power consumption and energy efficiency class of filters are, for example, the individual average annual dust pollution, the plant operating time and thus the loading duration of filters and the effective utilisation of installed filter areas.

The costs calculator for TROX filters lets you find out quickly and easily what energy costs various filters incur over time. And this is how it works: the online tool [www.trox.de/en/lcc](http://www.trox.de/en/lcc) is used to enter the volume flow rate in m<sup>3</sup>/h in a room air conditioning system. The result shows you the annual energy costs in euros per energy efficiency class.



The costs calculator filter calculates the energy costs of the filter of a room air conditioning system as well as the savings potential at the click of a button.



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TROX is leading in the development, manufacture and sale of components, units and systems for the ventilation and air conditioning of rooms. With 29 subsidiary companies in 28 countries on 5 continents, 14 production facilities, and importers and representatives, TROX is present in over 70 countries. Founded in 1951, global market leader TROX, whose international head office is in Germany, generated in 2015 with a total of 3,700 employees around the globe revenues of €482 million.

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