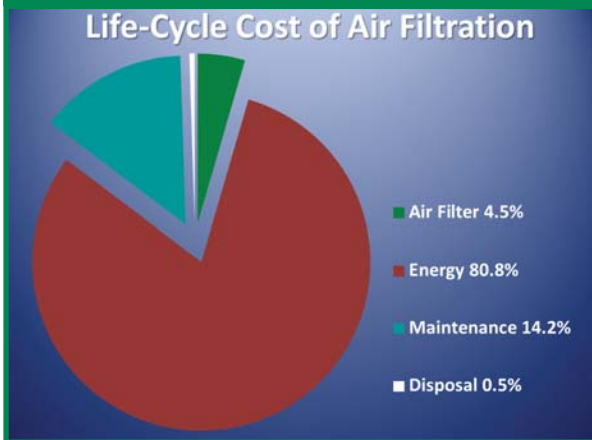


# LCC Green

Life-Cycle Cost Software Providing the Total Cost of Ownership For Air Filtration in HVAC Systems



Air filter life-cycle costing software that uses real life data for analysis.



Initial filter investment is a small component of consideration when analyzing the total cost of a filter over its life in the system.



The cost to move air through an air filter accounts for 60-80% of the Total Cost of Ownership (TCO) of that air filter. Thus, the purchase price of the filter is one of the least important factors when making a filter selection decision. The Camfil Farr LCC Green software will enable users to make informed decisions on selecting air filtration products for their buildings.

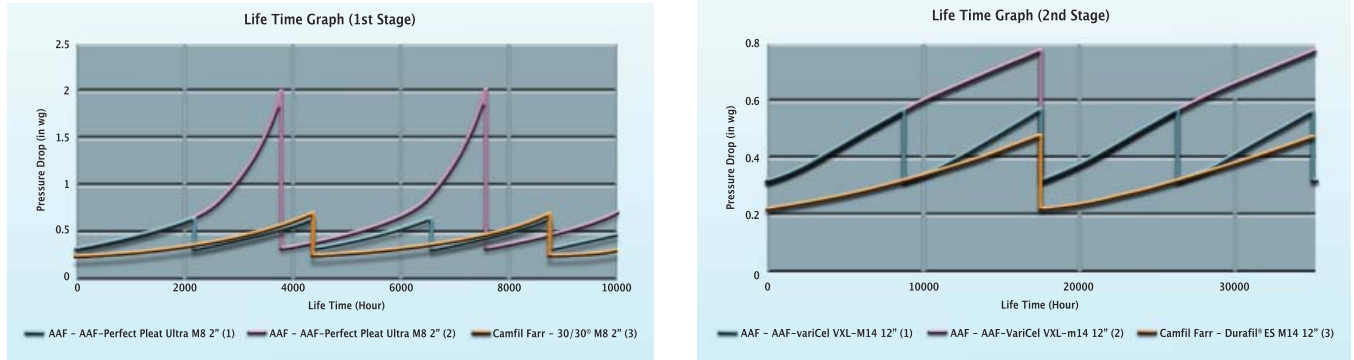
Camfil Farr's LCC Green software evaluates the total cost of ownership for air filtration products using data collected from over 15 years of life-cycle cost data evaluation and collection. The user is provided with a summary report, and report detail, that includes all of the inputs that were used in the analysis and solutions that will reduce their total cost of ownership.

Camfil Farr LCC Green considers:

- The air quality of the local environment, a critical factor that is overlooked in most analyses. Urban, suburban and rural environments affect the performance of the filters in different ways. LCC Green allows the user to input air quality information as dictated by the building owner or information that can be readily obtained from a local environmental agency.
- The lifetime efficiency of the products selected. An air filter's main purpose is to remove contaminants from the air to protect people, buildings and processes. Some filter's lose efficiency over time, a factor included in the filter life-cycle evaluation.
- The dirt loading of a filter based upon an algorithm of the filter's lifetime efficiency, local air quality and historical filter performance data in situations with similar air quality data.
- The labor to service the filter, including transport from loading docks, replacement of the existing filter and disposal.
- The unit cost of the filter.
- The filter's energy consumption over its service life. Air filters have a long loading curve directly related to the filter's configuration and amount of media area. VAV, fixed volume and constant speed systems may be considered, and recommendations are provided if resheaving is required.
- Additional inputs for disposal costs for to remove filters from the site (dumpster), periodic cleaning of the system if inefficient filters are used and hardware costs if necessary.

Camfil Farr	Product Sheet
LCC Green	LCC1 - 0910
Camfil Farr - clean air solutions	

**Lifetime graphs provide visual filter life predictions for easy executive analysis.**



A graphical summary compares Camfil Farr with competitive products. Although others in the industry have life-cycle costing software, most are simple spreadsheet files of web-based calculators that only consider an average filter pressure drop from a straight-line curve. LCC Green uses an algorithm that considers the filters' actual loading curve over time, a resultant value that provides superior analysis accuracy.

The screenshot shows a report titled 'LCC GREEN ANALYSIS RESULTS' with a sub-header 'Financial & Sustainability Summary'. It includes fields for 'Prepared By: Joe Brennan', 'Report Date: August 11, 2010', and 'Customer Tested: Adventist Medical Center'. The 'Camfil Farr Authorized Distributor' section lists contact information for a distributor in Parker, ST. The 'Cost Breakdown' table compares three options: AAF (1), AAF (2), and Camfil Farr (3). The table lists various cost elements such as Energy Cost, Filter Cost, Labor Cost, Waste Cost, CO2 Impact, and Landfill Impact, along with the Total Cost of Ownership (TCO). A 'Performance Satisfaction' section shows a green star icon. The report is prepared by Camfil Farr LCC Green Software and is copyrighted by Camfil Farr 2010.

TCO Elements	AAF (1)	AAF (2)	Camfil Farr (3)
Energy Cost	3969 USD	7408 USD	4184 USD
Filter Cost	3968 USD	1975 USD	2730 USD
Labor Cost	390 USD	225 USD	195 USD
Waste Cost	163 USD	68 USD	45 USD
CO2 Impact	95801.68 lb	139998.45 lb	77571.85 lb
Landfill Impact	220.37 ft <sup>3</sup>	119.01 ft <sup>3</sup>	110.53 ft <sup>3</sup>
Total Cost of Ownership (TCO)	8864 USD	9208 USD	7074 USD

An executive summary provides critical information on one page. It includes all of the selected solutions and cost of ownership factors such as energy cost, filter cost, labor, waste, CO<sub>2</sub> impact and landfill impact.

Camfil Farr's LCC Green provides graphic output comparing various options as requested by the end user. Up to three options may be presented in one analysis. All related cost of ownership amounts are displayed including energy, filter cost, labor cost, waste cost, CO<sub>2</sub> impact and landfill impact.

Visual examples of each product analyzed are shown, so the user can confirm the products under consideration and ensure the latest manufacturer's offerings are considered.

The Camfil Farr LCC Green product database includes historical performance data, almost every air filtration product in North America. Are you using the filtration that will give your facility the lowest total cost of ownership? With the proper air filter solution, TCO savings can be in tens, or even hundreds of thousands of dollars.

Contact Camfil Farr for specific case studies.

**Contact your local Camfil Farr distributor to schedule your analysis today.**

**Camfil Farr, Inc.**

United States Tel: (973) 616-7300 Fax: (973) 616-7771

Canada Tel: (450) 629-3030 Fax: (450) 662-6035

E-mail: [camfilfarr@camfilfarr.com](mailto:camfilfarr@camfilfarr.com)