



Good news for energy reduction

Systems: Various Air Handling Units
Building: Newspaper printing facility
Environment: Urban environment

This facility is a recently constructed production facility involved in printing industry. The building managers requested an Opportunities Assessment to identify any energy saving opportunities that are available in order that they can not only reduce operating costs, but also establish a framework to approach the forthcoming mandatory legislation on The European Energy Directive from Jan 2009.

The agreed objectives of the Assessment were to identify and prioritise any actions that can be taken by the site to save energy, money and carbon. Estimates are based on surveying a typical Air handling Unit (AHU) and projecting the consumption across 20 further units.

The site is keen to be regarded by customers and their peers as applying the best practice in energy management.

Based upon an estimated 8760 hours running time per year @ 40,800 m³/hour with a fan efficiency of 65% and a period of 5 years (estimated installation life), Camfil undertook a Life Cycle Costing (LCC) analysis of the current filter installation in order to establish if any saving would be generated by a filtration upgrade.

The LCC also takes into account disposal costs (based upon € 1.4 per filter) and other factors such as potential cleaning costs, and Minimum Lifetime Efficiency (MLE), however labour costs for installation have not been included at this stage.

The current installation utilises low grade synthetic panel filters with some secondary bag filters (this could not be established for all systems and has therefore been assumed for the purpose of the following calculation).



Projected savings

Based on 20 Air Handling Units over 5 years

Cost saving per system (€) *	14,342
Cost saving for all systems (€) *	288,826
Energy saving per system (kWh)	109,500
Energy saving for all systems (kWh)	2,190,000
CO ₂ saving per system (tonnes)	0.8
CO ₂ saving for all systems (tonnes)	16

* calculations based on € 0.057 / kWh

For further information regarding this service, please contact your local Camfil Farr office

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Camfil Farr Case Study
 Opportunity Assessment Survey