

case STUDY



COMMERCIAL
BUILDING

Camfil France works closely together with the French leader of maintenance companies for a sustainable development :

- **Optimization of its operating costs**
- **Reduction of its volume of waste**
- **Improvement of technicians working conditions**

Installations : Study carried out during 12 months on 10 AHU

Building : Shopping centre on the French coast (Côte d'Opale)

Objective

Optimization of global operational costs while improving their technicians working conditions.

The plant has 10 AHU each of them equipped with 17 filtering media refillable frames. The media is cut and replaced by a technician every month.

Solution

Camfil suggested replacing the cut pad media by filters EcoPleat Green F5.

Results

Thanks to a much larger filtering surface area, the EcoPleat Green filters last 6 months instead of 1 month for the G4 media.

Advantages

This optimization is an opportunity for this company to reduce the labour costs (fewer and faster interventions).

Besides, the technician instead of cutting media pads has only to install Green filters (ABS frame) without any sharp edges which avoid potential injuries.

For an almost identical expense (supply + labour cost), as shown in the table opposite, this company has safer working conditions and the time saved is used for other more gratifying tasks.

Cleaning costs for the batteries are lower and the operational expenses on the other filtration stages are reduced too by a better protection with the F5 filters.

By changing the prefiltration filters 6 times less the volume of waste and, consequently the waste disposal costs are considerably lessened.

F5 filters have a better energy efficiency than G4 filters so energy costs are reduced too.



Filters 2.5 times more expensive

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Labour costs reduced by 93%

Evolution of operating costs depending on the 1st filtration stage

| | Before optimization (media pads) | After optimization (Green F5 Ecopleat) |
|---------------|-------------------------------------|--|
| For 10 AHU | | |
| Filter supply | 4 080 € | 10 200 € |
| Labour cost | 6 480 € | 450 € |
| Total | 10 560 € | 10 650 € |

Advantages:

- **Working conditions optimization**
- **Cost savings on batteries cleaning**
- **Cost savings on energy consumption**
- **Less waste disposal volume**

For further information, please contact Camfil France

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