

The Perfetto Filter Solution



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Thanks to MANN+HUMMEL we have saved energy, lengthened filter change intervals, and halved changeover times. Total TCO saving is about 37,000€

Customer Maintenance & Purchasing representative



Making the difference in pasta production



Customer

International food manufacturer - Italy



New system

Aircube Eco energy-saving air filters



Outcome

Energy savings: 29%

Filter life: doubled to annual change intervals

Total cost of ownership: lowered ~37,000€

THE CUSTOMER

As one of the world's largest producers of fresh pasta, our customer employs 4000 people and has a turnover of nearly one billion Euros. The customer's production plant had a total air flow rate of 900,000 m³/h and air handling units equipped with prefilters, fine dust filters and a final HEPA stage.

THE CHALLENGE

The customer was actually quite satisfied with their current filter system, which employed V-type pocket filters, rated C for energy consumption. But, following calculations using our custom Total Cost of Ownership (TCO) tool, they realized the benefits of switching to a more efficient filter selection.





THE SOLUTION

MANN+HUMMEL proposed our Aircube Eco compact filter, which is rated A+ for energy efficiency according to the Eurovent independent trade association.

Previously, the customer used comparison tables when switching from the old EN 779 standard to ISO 16890. As part of the energy-saving project, we analyzed the ambient air quality and selected filters that would offer the ideal air quality balanced against the total cost of ownership.

This enabled the customers to immediately cut the initial pressure drop of their system by over 20%, while also achieving better performances from their AHUs.



MANN+HUMMEL sent us the goods in a few days while we were used to receiving goods in 40 days.

Customer Logistics representative

Perfect for the food and beverage industry

Aircube Eco also features components that are resistant to microbial growth according to ISO 846, and compliance with VDI 6022 and the requirements of EG directive n. 1935:2004 – making it ideal for use in food production environments.



THE RESULT

Switching to Aircube Eco cut the customer's ventilation energy spend from 88,000€ to just 63,000€ - a saving of around 25,000€ or 29%.

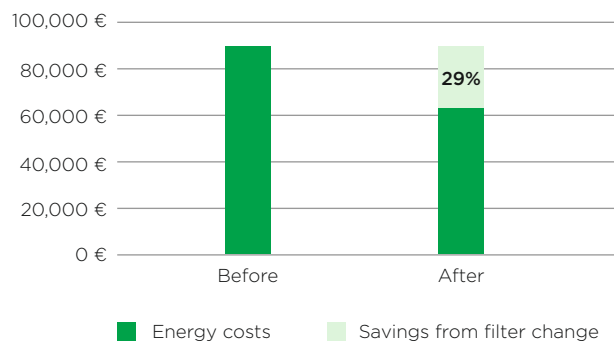
The improved service life of Aircube Eco also meant that the filter replacement interval doubled from six months to 12 months.

This meant lower maintenance costs, as well as reduced purchasing, stock handling, labour and disposal. Fewer filter changes also meant less disruption to production.

Finally, the additional product certifications for the food and beverage segment meant that the quality department was very satisfied!

All this means that switching to Aircube Eco has saved the customer approximately 37,000€ in total cost of ownership.

Ventilation energy costs before and after filter replacement



Filter change intervals

6 > **12**
months months

Plus...

- Less maintenance
- Less stock handling
- Less labor
- Less disposal



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Thanks to MANN+HUMMEL, we can count on certifications and conformity of the products that we couldn't have in the past.

Customer Quality representative

Learn more about our air filtration solutions on our website

[MANN+HUMMEL AIR FILTRATION →](#)

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