## Saving energy in pharmaceuticals





Leadership in Filtration



Swapping one filter type for another cut the customer's ventilation energy spend by 57%.



# Saving energy at a pharmaceutical co.



**Customer** Pharmaceutical manufacturer - Germany



### New system

Airpocket Eco - 10 pocket energy-saving air filters



### Outcome

Energy costs: reduced by nearly 20,000 € Filter life: doubled to annual change intervals Air quality: optimized for the environment

### THE CUSTOMER

A German pharmaceutical manufacturer operates 14 ventilation systems with a total air flow rate of 152,105 m<sup>3</sup>/h in its production plant. The plant operates three shifts over five days a week. Including maintenance times, the plant operates for approximately 6,000 hours per year.

### THE CHALLENGE

The customer used positive and negative pressures to maintain various isolation areas across their plant, so they were used to monitoring air volumes and pressure drop levels.

The customer had replaced its EN 779 filters with ISO 16890-rated products on the basis of comparison tables between the old and new standards. Unfortunately, the air monitoring system highlighted that even after making the change, the ventilation system was not operating as efficiently as it could, with higher-than-acceptable pressure drop levels.





### THE SOLUTION

As part of the energy-saving project, MANN+HUMMEL analyzed ambient air quality values and selected filters on the basis of ISO 16890 and our own Total Cost of Ownership (TCO) tool.

We selected our Airpocket Eco product for its ultralow energy demand – rated A+ for energy efficiency by Eurovent, the independent trade association.

Although this change increased the customer's filter spend by around or 25%, we were confident that the energy savings would fair outweigh this rise.



### Ideal for the demanding needs of pharma manufacturing

As well as offering some of the very best energy performance available anywhere, Airpocket Eco also meets the requirements of ISO 846 for microbial growth and EN 13501 for fire protection – making this filter ideal for use in sensitive environments such as pharmaceutical production.



### THE RESULT

The air monitoring system enabled the customer to quickly evaluate the performance of the new filter configuration. Switching to Airpocket Eco saw their ventilation energy expenditure fall from  $34,188 \in$  to just  $14,391 \in$  – a drop of around 57%.

Yearly energy costs cut by

Filter change intervals

20,000€ 6 to 12 mths

What's more, because of the extra dust holding capacity offered by the Airpocket Eco, the customer noticed that they only needed to change filters once per year, rather than twice with the previous product.

This meant lower maintenance costs, as well as reduced purchasing and stock handling requirements.

### Total annual costs before and after filter replacement



Despite a 25% higher purchase price, over the entire period the new filter solution is significantly cheaper.



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Thanks to the energy savings, the investment in the new air filters was recovered in just a few weeks. Learn more about our air filtration solutions on our website

MANN+HUMMEL AIR FILTRATION  $\rightarrow$ 

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