

New filter series for air conditioning and ventilation systems

## **FreciousComfort – HVAC filter with biofunctional coating protects against allergic reactions**

**FreciousComfort is the name of the new filter series from MANN+HUMMEL for air conditioning and ventilation technology. It combines particle filtration with anti-allergenic and anti-microbial functions. The filters block fine dust and free allergens to restrict the growth of mold and bacteria. The advantages for people are less allergic reactions and an increased sense of well-being in rooms.**

Ludwigsburg 22.10.2019 – MANN+HUMMEL presents the new FreciousComfort product series for air conditioning and ventilation technology. It consists of pocket filters for particle filtration and compact filters, which are additionally equipped with an activated carbon layer. In contrast to conventional particle filters, the series is equipped with anti-allergenic and anti-microbial functions. This deactivates free allergens and prevents proliferation of mold and bacteria. The Carboactiv Cube FreciousComfort with an activated carbon layer removes unpleasant odors and harmful gases. FreciousComfort increases the sense of well-being for people in rooms and reduces the occurrence of allergic reactions. Companies benefit from higher productivity and employee satisfaction.

The filter media were developed by MANN+HUMMEL and are already successfully used in a number of applications such as cabin filters found in vehicles, housing ventilation and shortly also in mobile air purifiers. They consist of different layers and coatings which are specially designed for the respective application. Depending on the product, the filter efficiency of the particle filtration in HVAC systems is ISO ePM1 50% to ISO ePM1 60% (acc. to ISO 16890).

The anti-allergenic function is achieved with a coating of polyphenol. This natural substance is to be found, for example, in green tea or citrus fruits. Free allergens are minute protein particles which in fact trigger allergic reactions. When pollen reaches the filter, due to the mechanical stress the pollen bursts open and the free allergens are released. Polyphenol binds up to 95% of free allergens and as a result they become harmless.

FreciousComfort is also equipped with an anti-microbial function. This prevents the proliferation of mold and bacteria on the filter medium which could otherwise penetrate the clean side of the filter.

The efficiency of the filter medium has been tested and verified by a number of different independent testing organizations such as bifa Umweltinstitut, the public material research laboratory in Bremen and the Hohenstein Institute.

Further information available at [freciouscomfort.mann-hummel.com](http://freciouscomfort.mann-hummel.com).

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(approx. 2,900 characters including spaces)



**Press photo:** Filter media and layers of the FreciousComfort

1. Particulate matter filtration
2. Anti-allergenic coating  
Anti-microbial coating
3. Active carbon (optional)

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### **About MANN+HUMMEL**

*MANN+HUMMEL is a leading global expert for filtration solutions. The company group with its headquarters in Ludwigsburg, Germany, develops solutions for motor cars, industrial applications, clean air in interior spaces and the sustainable use of water. In 2017 the group achieved sales of approx. 3.9 billion euros worldwide with more than 20,000 employees at more than 80 locations. The products manufactured by the group include air cleaner systems, intake manifold systems, liquid filter systems, plastic components, filter media, cabin filters, industrial filters and membrane filters.*

Further information about MANN+HUMMEL is available at <http://www.mann-hummel.com>

