

Munters AirProTec® fresh air filter system

Fresh air systems

With the fresh air filter system »AirProTec«® a fresh air system has been developed, which filters up to 98 % of viruses and bacteria from the fresh air according to investigations carried out by the University of Leipzig.

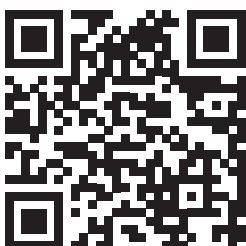
Advantages

- Easy to assemble
- High filter service life
- High separation efficiency, up to 98 % for PRRS viruses
- Integrates well into existing ventilation concepts

The Munters »AirProTec«® fresh air system is generally used with overpressure-based fresh air guidance. Due to the fully automatic leakage control, there is a high level of operational safety. In addition, this system is equipped with a pad cooling system. It can be used with single and multi-compartment stables. The roof cavity or fresh air ducts are used as a fresh air corridor. As such, the PRRS filter module is suitable for new and retrofit installations. The fresh air supply to the compartment is usually realized via fresh air ceiling inlets or fresh air distributors.



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Product video



Easy replacement of pre-filter



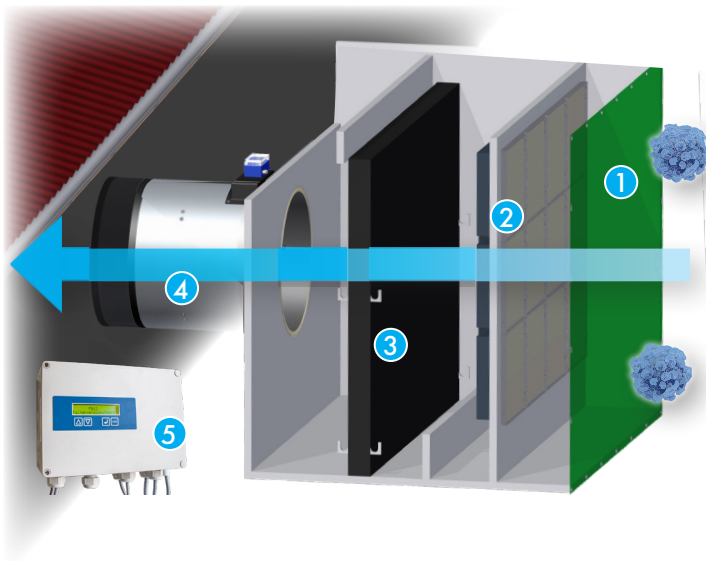
Easy replacement of main-filter



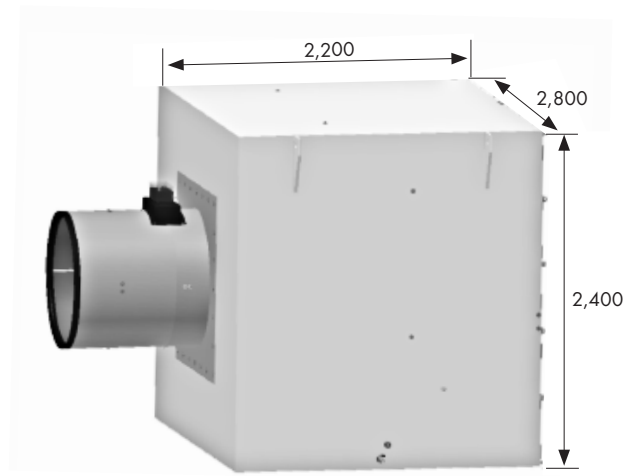
AirProTec® control APT

Munters AirProTec[®] filter modules

Fresh air systems



- 1 Preliminary filtration through wind protection nets
- 2 AirProTec[®] filter medium
- 3 Integrated cooling
- 4 Air duct with shutter
- 5 AirProTec[®] control APT



The AirProTec[®] filter module is well suited for use in barns where the entire ventilation concept is being redesigned as well as for retrofitting existing barns. The filter module is pre-installed and features the following points:

- High operational assurance due to overpressure ventilation and continuous leak-tightness testing
- Integrated plastic pad cooling system
- Service access for maintenance and cleaning of the system
- AirProTec[®] pre-filter for filtration of large particles
- AirProTec[®] filter medium for filtration of fine particles

Filter classes:

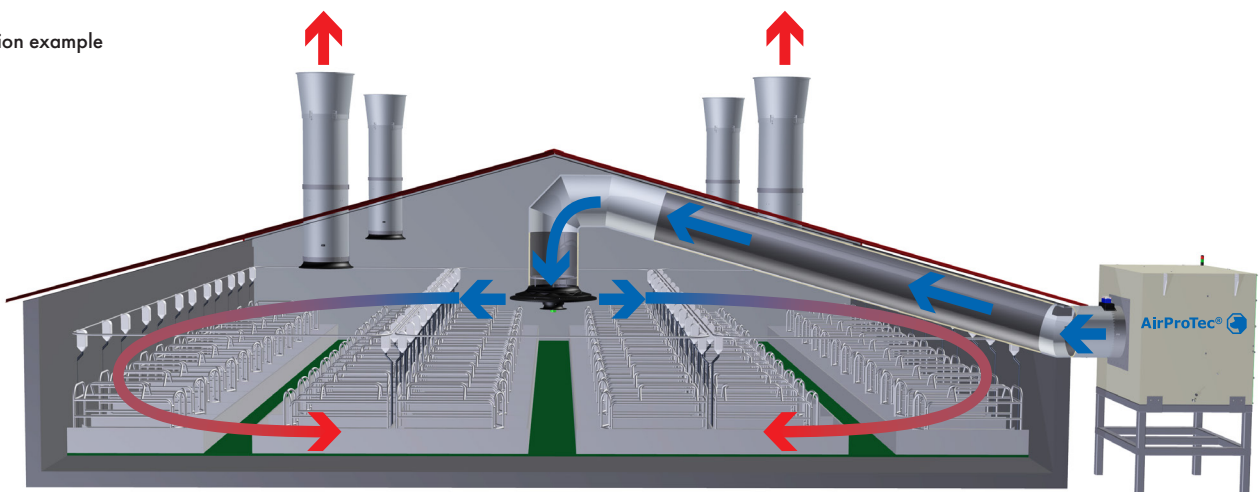
Pre-filter: Standard EN779: G4 / US.MERV: MERV7

Main filter: Standard EN779: F9 / US.MERV: MERV16

Type	Air flow (m ³ /h)
AirProTec [®] filter modules 20,000	20,000
Fan E910-FN-D6-A5	20,000

The special AirProTec[®] control APT monitors the condition of the AirProTec[®] filter, the maintenance door of the AirProTec[®] module as well as the fresh air fan and switches this off where necessary. By monitoring the differential pressure at the filter elements, an indication is given both on the display and on a signal lamp mounted on the housing when a filter change is necessary.

Installation example



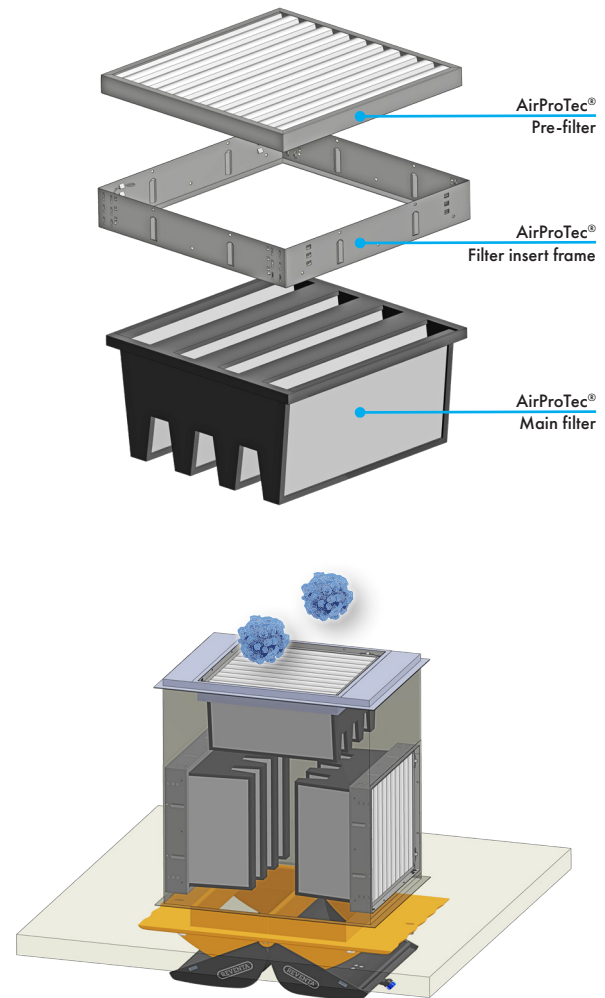
Munters AirProTec® filter elements

Fresh air systems

Munters AirProTec® filter elements, which are used for example in the APT filter modules and APT filter housings for ceiling air inlets, are exceptionally well suited for reducing pathogen contamination. This has been proven e.g. with the PRRS virus, staphylococcus and APP bacteria, in comprehensive lab tests and pig houses by the faculty for veterinary medicine of the University of Leipzig.

The filter element features characteristics including the following:

- High dust retention capacity and therefore long service life
- Easy to install through the use of stable filter frame
- Quick filter change with the help of just four wire clips



Application example - AirProTec® filter elements in filter housing for ceiling inlets

Air capacities AirProTec® filter elements

