



»NETT« dry dust filter

effective dust filtration for poultry management



»NETT« dry dust filter: compact structure and automatic dedusting



Practical example »NETT« dry dust filter

View exhaust tower (4 chambers) with dry dust filter in a poultry fattening stable

Effective dedusting is growing in importance when it comes to poultry management. Especially in light of the discussion surrounding bioaerosols and the issue of permits for new stalls, »NETT« dry dust filters represent an effective solution.

With the »NETT« dry dust filter, Reventa® has developed a system that stands out among the competition due to its extremely compact design and automatic cleaning.

The »NETT« dry dust filter can be installed, for example, on the gable at the entrance to the exhaust tower on the intake side of the exhaust air duct. The exhaust tower itself is separated into separate individual air chambers.

When dimensioning, it's important to make sure the filter surface load does not exceed the value of approx. 9,000 m³/(m² · h).

The dust filter itself consists of one stainless steel screen (mesh size 0.45 mm), which is anchored and spread across a steel frame with vibrating motor. When air loaded with dust flows through this special mesh, a thin filter cake forms, enhancing increases separation efficacy even further.

Differential pressure, which is dependent upon flow volume, will increase as the filter cake grows. When the maximum pressure for activating cleansing is reached, the exhaust air duct shutters for the respective chamber are closed and the fan is turned off.

Advantages:

- Extremely compact design due to a high filter surface load
- Automatic cleaning via integrated vibrating motor (230V)
- Automatic filter monitoring via NETT filter control
- Separated dust will remain in the animal zone, and does not have to be disposed of separately
- Overall dust separation rate >70%, and dust concentration on the clean gas side <0.3mg/m³ (verified by measurements by anaccredited measuring institute)

Type	Capacity	Dimensions
»NETT« dry dust filter	55,000 m ³ /h	2,000 x 3,000 mm
»NETT« control system	-	360 x 250 mm



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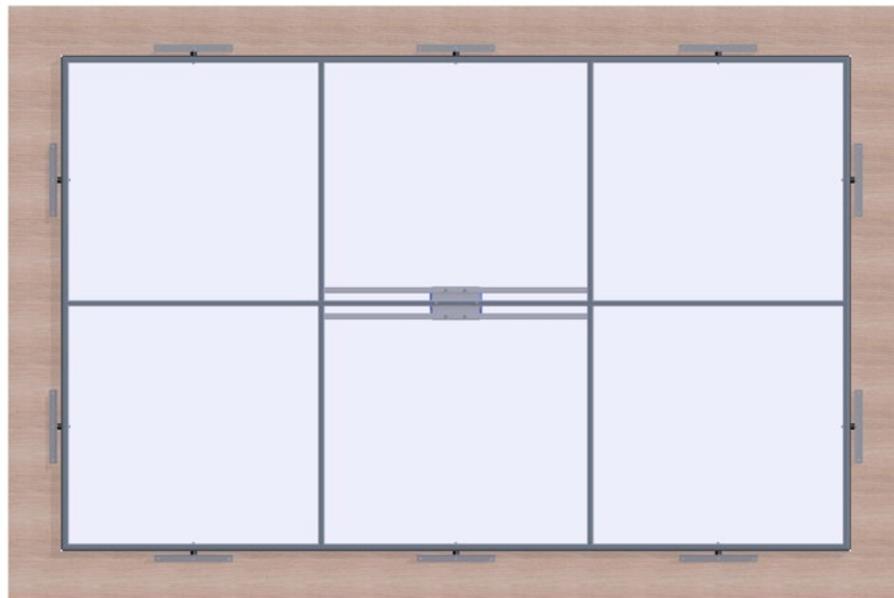
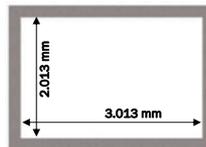
The control system logs differential pressure at the filter, as well as further data. When, to name an example, the maximum pressure for activating cleaning is attained, which is dependent upon air flow, then the fan in the exhaust air duct is deactivated, the shutter on the air flush fan is opened and the flushing and vibrating process is initiated fully automatically.

The combination of vibration on the frame and the flushing process in the opposite direction causes dust to fall from the screen in the direction of the stall. Moreover, the control system

ensures that no more than one chamber is cleaned at a time, which means there will be sufficient fresh air available.

The control system can monitor and clean up to four modules. The total dust separation rate is >70% and dust concentration on the clean gas side is <0.3mg/m³ (verified by measurements by an accredited measuring institute).

When using this mounting set, the wall cut-out should be 3,013 mm x 2,013 mm.



»NETT« dry dust filter with vibration motors (view from the raw gas side)

Further high performance REVENTA® fresh air systems

Multi air inlets

For large flow volumes, there are the multi air inlets



"AIRSTEP"® and "safe-let"®. There are a multitude of potential configurations due to the modular format of the "safe-let"® multi air inlet.

Single air inlets

In addition to the multi air inlet "Airstep"®, you can also opt for our "pure-let" and "safe-let"® wall air inlets for all flow volumes.



Control systems and motors

REVENTA® actuators and electric motors boast a long service life. We use



ZIEHL-ABEGG  for our fans. In addition to the transformer control, TRIAC control and frequency controllers, REVENTA® always offers the right solution for speed control.

"Details + Extras"



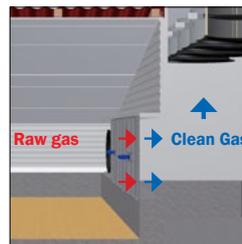
External view of tower



Brush seal



»NETT« filter control



Filter wall detailed view



Detailed view Fixing set

Do you have any questions or do you require advice concerning your own projects? – We shall be happy to assist you:

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