

New approved generation of biological air cleaning removes 70% of the odour

BIO Flex has been developed in accordance with the principle of 'air cleaning by the metre'. The system is highly flexible, allowing the farmer to optimise his investment and operating costs in keeping with current official requirements. BIO Flex is introduced in connection with the exhibitions EuroTier in Germany and Agromek in Denmark, where it is a two-star novelty.

Since 2001, SKOV has been developing and marketing biological air cleaning systems. BIO Flex, which is the latest addition, has just undergone final testing in Germany, where the system has achieved the much-coveted and trend-setting Signum Test approval from Deutsche Landwirtschafts-Gesellschaft (DLG).

– We have just received the German approval with figures that show that we are now removing 70% of the odour in the air outlet, and the pig smell is eliminated via our BIO Flex three-filter system, says Niels Riis, Product Manager, SKOV A/S.

Biological air cleaning continues to be the only principle that cleans the air of both odorants and ammonia. BIO Flex reduces the ammonia content in the outgoing air to 1 ppm.

– This corresponds to a 70-90% reduction of the ammonia content in the outgoing air, which equals the best chemical air cleaners on the market, which, however, do not remove the odorants, Niels Riis continues.

More work for the bacteria and less work for the pig producer

BIO Flex is equipped with a newly developed sturdy and reliable washing robot, which cleans the filters automatically and efficiently. Emphasis has been placed on ensuring that the pig producer will need to spend as little time as possible on cleaning and maintaining the system.

Additionally, the utilisation of the entire filter area in the air cleaner is optimised and the amount of dust in the filters is reduced by placing an air distribution plate (patent pending) in front of the first filter; the mechanical principle for sprinkling of the filters under any operation condition is also optimised.

– With these and other measures, what you might popularly call 'the working environment conditions' of our bacteria have been improved considerably, so that the bacteria are better able to convert the odour substances and ammonia content in the house air, says Niels Riis.

Low energy consumption

BIO Flex is characterised by air cleaning of large filter areas, which causes a small pressure drop. The dust-reducing function of the air distribution plate in combination with the automatic washing robot ensures that the filters are always optimal as regards low pressure drop through the filters.

– A three-filter system typically works at a negative pressure between 50 and 70 Pa, where many other systems on the market work at negative pressures well above 100 Pa, which will be noticeable in the electricity bill, Niels Riis concludes.

The pressure drop of a two-filter system is less than 45 Pa.

Flexibility in every respect

BIO Flex is a biological air cleaning system of the two-step or three-step biological air washer types; it is supplied with a capacity ranging from 10,000 to 360,000 m³/h with the same controls, which corresponds to a system length of between 2 and 50 metres.

Photo caption:

BIO Flex three-filter system with air distribution plate in front of first filter and automatic washing robot

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