

Roslev, 20 January 2017

BlueFan - big savings on electricity bill

SKOV is launching a new generation of wall fans, BlueFan, which sets new standards for performance, energy efficiency and wind susceptibility. Tests in Thailand, Saudi Arabia and Australia have demonstrated energy savings of up to 70% over the summer.

In conjunction with the IPPE exhibition in Atlanta, USA and the VIV Asia exhibition in Bangkok, Thailand, SKOV is launching a new series of wall fans, which are used as air outlets in ventilation systems for poultry and pigs.

"Based on the knowledge we have acquired over more than 40 years, we have developed a fan series, BlueFan, which is energy efficient and ensures the animals enjoy optimal conditions", says Henrik Bjaerge, Product Manager, SKOV A/S

While developing the fan, its performance combined with the fan's energy consumption and wind susceptibility were the most important factors.

"The BlueFan fans provide high performance, which can be utilised, as the fan is also very pressure-stable. The fan is not affected by wind conditions outside the animal housing", adds Henrik Bjaerge

BlueFan has been tested by the independent and recognised BESS Lab in USA. The results show that BlueFan distinguishes itself when tested for the correlation between performance and energy efficiency and wind susceptibility.

The fan has very low energy consumption, and if used in combination with the regulation principle, Dynamic MultiStep, the customer will enjoy the most energy-efficient ventilation system on the market.

"Preliminary test results from Thailand, Saudi Arabia and Australia show that, over the summer, BlueFan reduces the broiler producer's energy consumption by approx. 70% compared to identical livestock houses with conventional fans", adds Henrik Bjaerge.

The annual savings will depend on the animal group, system type and climatic conditions. Calculations have shown that annual savings can be up to 70%.

When the fan is not in use, the insulated shutter closes tightly. This means minimal heat loss through the fan, and that there is no draught in the area occupied by the animals.

"The motorized and adjustable shutter makes it possible to set up emergency opening. Our Australian test host experienced a power failure during a violent thunderstorm, and before the emergency generator restored the ventilation system, the BlueFan shutters were already open, ensuring fresh air for the animals", says Henrik Bjaerge.

The motor and fan blade are directly connected. There is no drive belt or other moving parts that require replacement and adjustment at regular intervals. BlueFan is manufactured of plastic and stainless steel materials, which ensures a long service life.

"Every day we see examples of existing wall fans which rust within a few years because they cannot withstand the environment of the animal housing", concludes Henrik Bjaerge.

BlueFan launches a new generation of wall fans, setting new standards for great performance, great efficiency and low wind susceptibility. The savings on electricity costs ensure a quick return on investment and a long-standing reduction in energy consumption.

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Image caption: BlueFan fans in a SKOV test house in Thailand. The results demonstrate a 70% reduction in energy consumption.