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The world's most environmentally friendly and energy-saving slaughterhouse

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The visualization shows the environmentally friendly pig barn. Illustration: Agrifarm.

The open barn event marks a major technological leap forward for pig producers, the environment and animal welfare.

It is a world premiere when Denmark's first hybrid ventilated slaughterhouse with air cleaner is put into use in Store Merløse on Zealand.

Agri Farm's award-winning slaughter pig barn Intellifarm with the air cleaning system Agri Air Clean will be put into use on a full scale for the first time, when pig producer Kim Kjær Knudsen from Allindemagle in Zealand takes a newly built barn into use at Vanløsegården in Store Merløse. The hybrid ventilated barn is 5,000 square meters and contains 5,800 stalls.

Super air purification

The core of the concept is the computer-controlled combination of mechanical and natural ventilation, which significantly reduces energy consumption, and the air cleaning system Agri Air Clean, which cleans the emission from the barn and removes 90-95 percent of the collected ammonia vapors and 70-95 percent of the smell from the barn.

- The importance of ventilation and air purification for energy consumption, indoor climate, employees, animal welfare and the surrounding environment cannot be overestimated. The cleaning is of great importance for the operation at Vanløsegården and for its neighbours. All in all, the systems will be of great importance to the pig producers who want to invest in future barn technology in the coming years, says product manager Poul Erik Christensen at Agri Farm.

Better logistics and climate

The slaughter pig barn Intellifarm received the award as best European News at Agromek in 2012. With a building width of between 30 and 60 meters, it is wider than traditional stables.

It requires a smaller building site and provides a more compact construction, where logistics and overview are paramount. The stable is well insulated and has good light incidence for the benefit of animal welfare and the working environment.

Heat recovery and cooling

The stables at Vanløsegården are equipped with LED lighting, which contributes to large savings on electricity consumption. There is heat recovery, which reuses the heat from the pigs.

High-pressure cooling is also installed for use on hot summer days. Caves with automatic climate control further save energy and ensure a good environment for the animals.

Scientifically documented

The advanced slaughterhouse is the result of several years of development, application in practice and scientific tests that document the enlightened effect of the technology.

Agri Farm has already built a cow barn with air purification and another pig barn is on the way in Denmark. The project has received funding from the Green Development and Demonstration Programme, GUDP, under Ministry of Food.

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