



Lubratec®

Poultry farming

Lubratec® ensures more animal welfare on organic chicken fattening farm Family Knabe, Twistringen



Generous transition between conservatory and outdoor outlet

Situation

A winter garden and an outdoor run were added to the existing chicken fattening house in 1997 on the Knabe family's farm. When planning the conversion, the decision was also made to switch to organic production. The steadily increasing demand for organic chicken meat in recent years and the promise of a buyer encouraged the farmers in their decision. Due to the additional space and the possibility of outdoor living, the barn meets Naturland's criteria for organic farming.

The barn buildings in Twistringen offer space for 14,300 animals, which are each divided into three groups. The maximum fattening weight is limited to two kilograms per square metre of barn space, so the number of animals was reduced after the conversion.

The barn area is divided into a 20 m x 60 m = 1,200 m² insulated warm stable area with forced ventilation and a heating system to meet the animals' high heat requirements. The newly created winter garden with a length of 70 metres was built under the aspect of realising more animal welfare.



More animal welfare through natural daylight and fresh air supply

Solution

Lubratec products contribute to greater animal welfare and ensure, among other things, that the animals have an uncomplicated transition from the conservatory to the outdoor area. This is achieved thanks to the Lubratec wrap-around ventilation that opens at the bottom with EWA. The upper part of the wrap-around ventilation is equipped with a transparent tarpaulin and a back layer net. The upper part serves as weather protection and for regulating the supply air for the cold scratching room. The lower unit can be controlled and opened or closed independently of the upper unit. The lateral end boxes of the lower unit were additionally equipped with brushes to prevent the birds from





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Healthy and robust animals through natural outdoor climate stimuli



Lubratec bottom-opening wrap-around ventilation with electric drive

slipping through when closed and to protect the chickens against pests entering from the outside.

The 60 cm high light band between the warm stable area and the winter garden was equipped with a wrap-around ventilation with darkening tarpaulin. If necessary, the light band can be covered in order to be able to quickly darken the barn when delivering the animals. This reduces stress for the animals. When open, the inner barn area continues to be supplied with daylight.

Benefits of application

By equipping the conservatory with wrap-around vents, the animals receive natural daylight and outdoor climate stimuli in every season. Thanks to the use of the back layer net and tarpaulin, the animals are protected even in extreme weather situations and receive natural daylight and plenty of fresh air even when they are down.

The possibility of separately controlling the lower part of the wrap-around ventilation gives the animals quick and uncomplicated access to the run. Covering the light band with another wrap-around ventilation provides quick darkening if necessary and daylight in the barn building when it is open. Less artificial light is needed inside the barn.

Farmers report very high animal health, among other things due to the improvement of the stable climate. The animals are more robust and less sick. Compared to conventional fattening, animal losses have been reduced.

Location:	Farm Knabe, D-27239 Twistringen
Designer:	Schulz Systemtechnik GmbH und Möhlenkamp Agrarservice GmbH
Contractor:	Möhlenkamp Agrarservice GmbH
Built:	March 2021 – June 2021
Products:	Lubratec Roll-Up Ventilation WLU with electric drive, Lubratec WLU with tubular motor

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