

Modern housing for dairy cows always involves quality ventilation

Quality ventilation in stables is today one of the most important parameters for the good health of dairy cows. The ideal solution is the LOMANCO Energo ventilation turbine.



With modern times, of course, there is also a shift in the field of operating technology across agriculture and, in particular, in dairy cows livestock production. We do not need to mention the latest technological processes of robotics, etc. These are still a very expensive matter today. In order to make production of farmed animals more efficient, it is often necessary to take into account their basic needs. Let's realise that power is often in simplicity.

Upgraded stables with a good standing area meet all the needs of the animals. These stables are very airy, with plenty of light and especially very well ventilated. They are best uninsulated, with open sides of 3,6 - 4,5 m high with a sloping roof of about 30 ° to ensure ideal air flow in the roof area.

Fresh air in the stable is the foundation of good breeding and often has a major impact on dairy production. With adequate ventilation, the health of dairy cows is improved, including the rate of digestion, while at the same time milk production and reproductive performance is increasing.

Important recommendations

To achieve this, several parameters have to be met for ventilation. With stables usually being a large area it is necessary to ensure a high quality air exchange throughout the space for each season. This means that it is necessary to ensure not only a sufficient supply of fresh air, but also a balanced exhaust ventilation from the attic area contaminated by the cows themselves. It is recommended that each dairy cow has at least 8 m³ of fresh air per 100 kg of live weight. At the same time, it is important that a stable microclimate is appropriate, ie appropriate temperature, relative humidity and air flow.

LOMANCO Ventilation turbines

Stable ventilation is most often done through the roof, either by large open ridge caps or by modern LOMANCO Energo turbines. These new intelligent turbines can react very well and extract the required amount of air independently of the natural conditions. In order to ensure balanced exhaust ventilation, even when the wind does not blow, the turbines are equipped with an auxiliary motor and a control unit. The speed sensor connected to the control unit is able to monitor the performance of the LOMANCO turbine and as soon as the unit evaluates the speed of rotation as too low (the speed will be below the set limit), it instructs the auxiliary engine to switch on and provide the required ventilation by turning the turbine head at a suitable speed. The advantage of this new LOMANCO ventilation system is its intelligent control so you can precisely adjust the turbines to the required exhaust ventilation, depending on indoor or outdoor conditions in the stable.

The new LOMANCO Energo turbine will provide even ventilation in both summer and winter conditions. In addition, it can be connected to other sensors, such as temperature, humidity, etc., so the turbine can perform very precise work. However, natural ventilation, based on rotation of the turbine head in a windy environment, remains a priority, and only when there is little wind or no wind, the electronics will evaluate and intervene. In other words, for most of the year, the turbine ventilates for free and only when performance is lower than that required, it switches on the electronics and the auxiliary energy-saving engine, increasing the ventilation performance to the required limit.

For more information on ventilation of agricultural buildings contact directly Alu Roofing, the exclusive importer for United Kingdom.

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