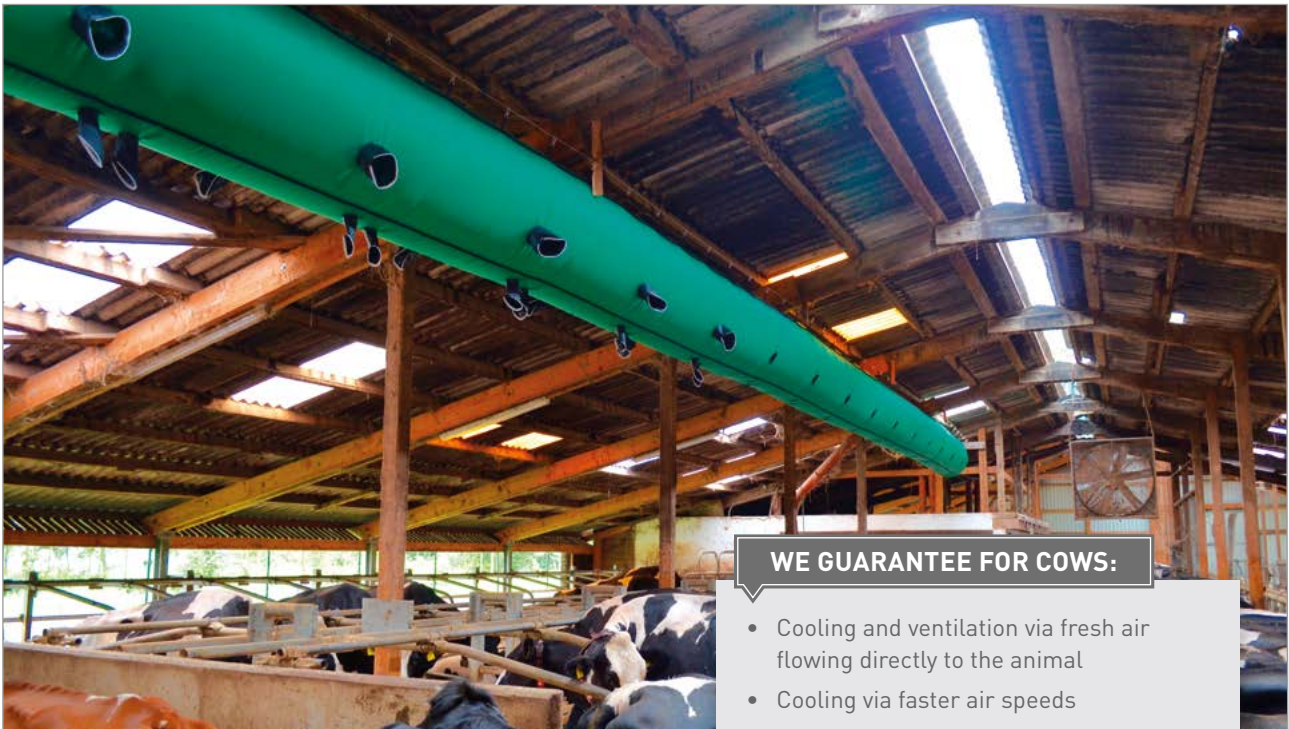




## Light and Air

### Cooling Tubes

#### Vetsmarttubes® tube ventilation systems for cooling



*Efficient, precision-directed cooling*

Given the immense metabolic capacity of modern dairy cows, high levels of body heat arise during the lactation and digestion processes. When rising outdoor temperatures prevent adequate heat dissipation by natural means, cattle will suffer heat stress. In the case of dairy cows, this condition results, among other things, in a higher cell count, lower concentrations of milk constituents and, most importantly, a reduction in milk yield.

#### Guaranteed better barn environment

Cooling tubes can be used to create ideal indoor environmental conditions in cubicles, at feeding stations, in group areas, in milking parlours and in holding areas, regardless of the barn architecture. High-precision ventilation, designed on the basis of 3D barn environment simulations, helps to prolong lying times, promote constant fodder consumption and boost milk yields. All cooling systems can be used in conjunction with state-of-the-art control technology (automatic environmental control, EC fans etc.) so as to enable year-round use.

#### WE GUARANTEE FOR COWS:

- Cooling and ventilation via fresh air flowing directly to the animal
- Cooling via faster air speeds
- No energy loss – 100% of the fresh air is delivered to the livestock area

**Optimum cooling performance can only be guaranteed through application of our globally unique computation method based on 3D barn environment simulations.**

Check out our 'money-back guarantee'.

#### How it works:

HUESKER offers a totally new concept. Applying comprehensive veterinary expertise, the actual conditions on site are assessed. Custom-made tubes are then designed and optimised in a number of calculation stages using complex computing methods. Exploiting veterinary know-how and physical fluid dynamics expertise, the production method produces each tube to precisely meet the commensurate application requirements.



## Light and Air

### Cooling Tubes



Feeding stations and cubicles, all-in system solution



Group areas



Cubicle rows



Milking parlour and holding areas

#### Benefits for feeding stations and cubicles:

- Constant fodder consumption, even at temperatures over 25°C
- No impact on fodder moisture content
- Uniform distribution and occupation of cubicles
- Longer lying times through efficient heat stress prevention
- Air velocities tailored to requirements for specific areas

#### Benefits for milking parlours and holding areas:

- Heat stress reduction through precision-directed air flows in milking parlour
- Ideal conditions for milkers thanks to targeted fresh air supply in milking pit
- Reduced fly nuisance through precisely designed air flows around cows
- High air change rates guaranteed by factoring extract air parameters into computation

#### Benefits for group areas:

- Uniform distribution over entire resting area, without any congregation of animals
- Variable cooling effect offered by local high-velocity air cones
- Optional control functions for special-needs areas

Consult our team of professional veterinarians.

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HUESKER Synthetic is certified to ISO 9001, ISO 14001 and ISO 50001.