

2 *Part of the StoreVent ventilation system range*



The Martin Lishman StockVent system has been specifically designed to provide livestock farmers with products that maximise animal productivity, efficiency and health.

Extract warm air from buildings and replace it with cool fresh air to reduce heat stress and improve animal productivity



The StockVent system includes high efficiency belt-drive fans to ventilate larger stock buildings as well as pedestal & wall fans to circulate air in a wide variety of parlour and barn applications.

*Why is it essential to ventilate your livestock building?
Why use the Martin Lishman StockVent system in your building?
Turn over for the answers to these questions ... and much more.*

StockVent Livestock Ventilation Systems

Great Britain and UK wholesale milk deliveries

In 2012/13, UK milk production was 3.9% (520 million litres) lower than the previous milk year - the lowest since 2009/10. The poor weather experienced that year was the reason for this decline.

Milk production in Great Britain alone fell by 4.1% in 2012/13 versus the previous milk year.

Data courtesy of the AHDB

Requirements of Natural Ventilation

DairyCo state that correct building design is critical to ensure adequate ventilation.

Buildings should be designed to:

- Remove excess heat
- Remove excess water
- Remove micro-organisms, dust and gases
- Provide a uniform distribution of air
- Provide correct air speed for stock comfort

The aim of the ventilation system must be to provide a continuous stream of fresh air to every housed animal at all times of the day or night.

Source: AHDB Dairy Housing - a best practice guide

Heat Stress

Dairy cows need to maintain a constant body temperature of 38.8°C +/- 0.5°C.

When an animal becomes heat stressed, feed intake will decline which in turn will affect milk yield.

There is also likely to be a reduction in fertility and an increase in embryonic loss. An increase in cases of clinical mastitis is often seen in heat stressed animals.

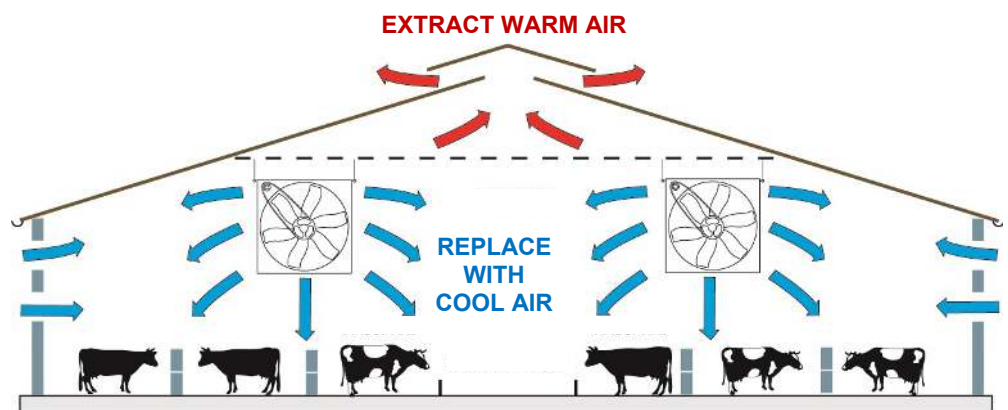
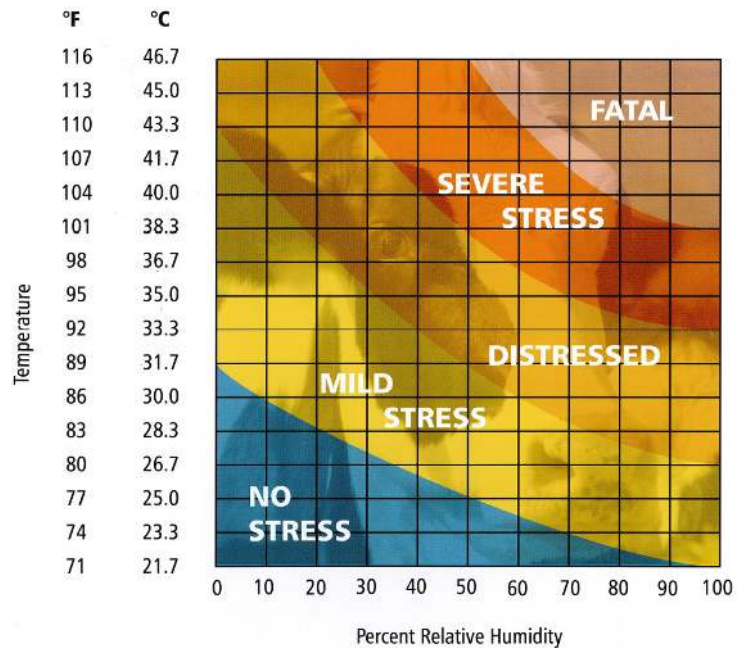
Why is it essential to ventilate your livestock building?

Heat produced by livestock naturally rises. If it is unable to exhaust from the building, it will condense on cold roof surfaces, increase humidity and make bedding damp and cold. This creates a suitable environment for bacteria to thrive.

Not only does this increase the risk of disease for livestock, it also increases heat stress levels which can have a serious impact on productivity, particularly with milk production, as well as fertility, miscarriage and low calf birth weights.

Installing a ventilation system provides a continuous stream of fresh air which alleviates the effects of heat stress and contributes to maintaining and increasing livestock production levels.

Heat Stress Chart



Why use the Martin Lishman StockVent system in your building?

- StockVent is specifically designed to enhance the quality of the environment in the livestock building throughout each season of the year
- StockVent removes moisture, heat and odours generated by livestock, replenishing the supply of oxygen by bringing in cooler, drier air from outside the building
- StockVent removes harmful gases such as ammonia (NH₄), methane (CH₄) and Hydrogen Sulphide (H₂S) which benefits animals and farm workers

It makes sense to include StockVent in your building ventilation systems

StockVent Livestock Ventilation Systems

Specifications of the StockVent system components

StockVent Turbulator

- Control of insects in the summer months
- Overcomes dunging problems
- A reduction in heat stress
- Constant airflow to eliminate condensation and reduce harmful gases
- Can be mounted at any angle for optimum coverage
- Supplied with 3 metre cable and 13 amp plug



Product Code	Airflow (m³/s)	Volts	Watts	FLC Amps	Throw of air (m)	Fan Dia (mm)	Sound Level dBA @ 3m	Width (mm)	Depth (mm)	Weight (kg)
SVKT355	0.86	230	120	1.10	30-35	355	57	360	420	10
SVKT400	1.27	230	180	1.60	35-40	400	62	410	420	13
SVKT450	1.70	230	280	1.90	40-45	450	64	460	420	15
SVKT500	1.37	230	90	1.40	40-45	500	56	510	420	16
SVKT630	2.86	230	280	2.10	45-50	630	60	660	420	29

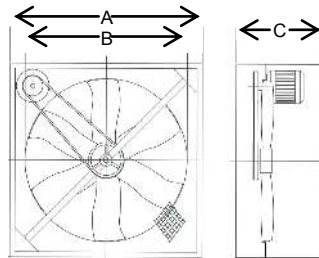
Variable Speed Controller available as an optional extra. Contact Martin Lishman Ltd for further details.

StockVent Belt-Drive Fans

- Used in larger buildings, such as cow cubicle housing
- Substantial airflow at low pressures and low energy consumption
- Galvanised sheet steel fan housing with bird mesh on both sides
- Motors protected to IP55 with sealed bearings
- Self-cleaning stainless steel impeller
- Optional built-in centrifugally operated back-draught shutter - once opened, fan performance is unaffected



Belt-Drive Fan	Max Vol (m³/S)	Max Pressure (Pa)	Volts	Watts	FLC Amps	A	B	C	Wt (kg)	Wt inc louvre (Kg)
SVK800/1	4.6	60	230	750	4.5	960	800	330	32	44
SVK800/3			400		2.0					
SVK1000/1	7.1	100	230	750	5.4	1150	1000	330	40	50
SVK1000/3			400		2.6					
SVK1250/1	12.1	100	230	1500	8.4	1380	1250	330	52	72
SVK1250/3			400		3.2					
SVK2000/1	20.1	60	230	1500	10.0	1930	1760	450	75	100
SVK2000/3			400		3.8					



A Variable Speed Controller is also available as an optional extra for the Belt-Drive Fans. Contact Martin Lishman Ltd for further details.

Free-Standing & Wall Fans

- Provide powerful, cool, yet effective, positive air movement - to improve the environmental conditions, especially in milking parlours
- Powerful 650mm three speed fan - deliver up to 3.83m³/s of air
- Wall mounted fans - can be mounted to any structurally sound wall, rafter or post
- Free-standing fans - supported by a cast iron base to provide sturdiness and durability

Product Code	Airflow (m³/s)	Sound Level dBA @ 3m	Watts	FLC Amps	Weight (kg)
SVKFLOOR	1.83	55	135 - 179	0.7 - 1	23
SVKWALL	3.83	68	135 - 179	0.7 - 1	14.3

Wall mounted fans- suitable for mounting in milking parlours, holding areas and calf housing.

Free-standing fans - suitable for localised cooling.



Typhoon Floor Fans

- Versatile circulation fans ideal for a variety of agricultural buildings
- The range offers high performance motors, efficient cooling and quiet operation

Product Code	Airflow (m³/s)	Fan diameter (mm)	Weight (kg)
SVKTY300	0.75	300	4
SVKTY450	1.83	450	6.3



Installation of StockVent

StockVent system components should be installed to take the best advantage of prevailing winds and the airflow generated by ventilation systems.

Installation of StockVent components must be carried out by competent engineers in accordance with all statutory electrical and health and safety regulations.

Turbulator

The Turbulator range of fans are constructed with Alu-Zinc or stainless steel casings, with high efficiency, lightweight motors and non-corrosive plastic impellers, offering various sizes from 355mm to 630mm diameter.

The units are suitable for all year round ventilation and movement of air within milking parlours and calf houses, giving evenness of temperature throughout the unit, removing condensation, thereby improving the building environment at low cost.

Belt-Drive Fans

The belt-drive fans are available in four sizes: 800mm, 1000mm, 1250mm and 2000mm diameter, each with single or three phase motors and the option of louvres and guards. This powerful fan produces air volumes up to 20m³/S.

Constructed from galvanised steel with a specially designed stainless steel impeller, these fans are extremely hard wearing and robust in application. The drive mechanism includes sealed for life maintenance free ball bearings, which means low noise and vibration levels.

The range is available in four variations for either wall mounting with shutters, suspension mounting from roof space or floor mounting with wheels.

The range also includes a centrifugal operated back draught shutter or an automatic louvre shutter model. Units are supplied fully assembled complete with standard safety guards.

Ventilation Socks

The StockVent Ventilation Sock System provides a constant, positive supply of fresh air to dilute foul air and, at the same time, create an even air movement in the building. The system is easy to install and improves the animals environment at low cost.



Professional Ventilation Systems

Four steps to improving your crop and building ventilation

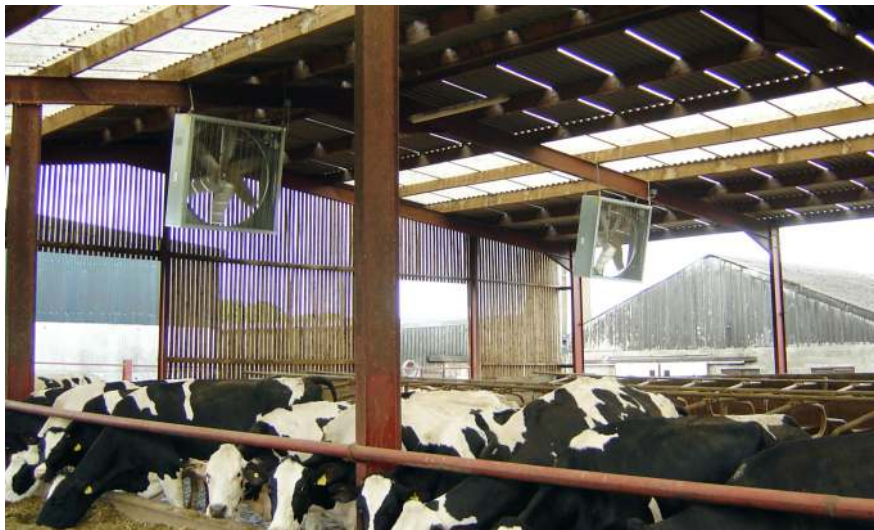
1 Pile-Dry Pedestals & Fans

- *The highest grain quality with the fastest cooling system*
 - *The only low volume system able to dry grain*
 - *Backed by research and 40 years experience*
- see the *Martin Lishman Pile-Dry Pedestals and Fans brochure* for further details.



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3 Automatic Fan Control & Crop Monitoring

- *Portable and Static Automatic fan controllers for energy efficient crop cooling and drying*
 - *Cost effective crop monitoring equipment to ensure the highest crop quality*
 - *Barn Owl Wireless remote crop monitoring, data storage and automatic fan control system*
- see the *Martin Lishman Fan Control and Crop Monitoring brochure* for further details.



Temperature Differential Fan Control

Fast, energy-efficient crop cooling



Thermo-humidistat Fan Control

Simple control for crop cooling and drying



Barn Owl Temperature & Humidity Fan Control

Comprehensive control for crop cooling and drying



Barn Owl Wireless Control & Monitoring System

Complete crop store management

4 Trouble-Dry Hot Spot Spears & Fans

- *Portable and economic cooling - a simple solution to a common problem*
 - *An emergency solution to hot spots where Pile-Dry Pedestals are not in use*
- see the *Martin Lishman Trouble-Dry brochure* for further details.



SPECIFICATIONS

StockVent systems are available in many models and sizes to suit different storage situations. Talk to your local stockist or contact Martin Lishman to discuss the most appropriate configuration to meet your requirements. It is the user's ultimate responsibility to decide which option is best suited for the conditions and situation in which the StockVent is to be installed and used.

The StockVent system has been devised and is marketed nationally and internationally exclusively by Martin Lishman Ltd. We reserve the right to alter product specifications at any time without notice.
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Your StockVent Dealer: