

**Martin  
Lishman**

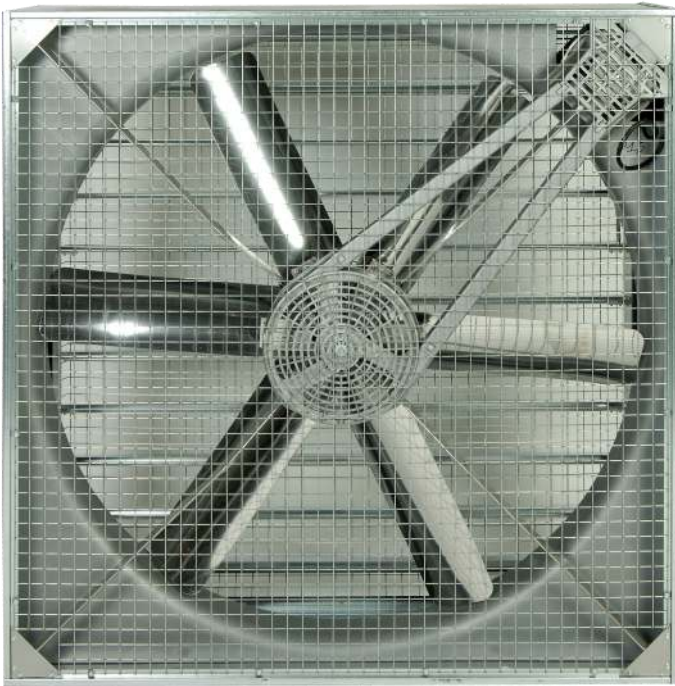
**Building Ventilation**



***Crop Store and Livestock Building Ventilation***

# Crop Store Building Ventilation

## StoreVent



See StoreVent in action - visit:  
[www.martinlishman.com/storevent](http://www.martinlishman.com/storevent)

### Fixed Blade Louvres

StoreVent fixed blade louvres are specially made for Martin Lishman with extra rain resistance to suit agricultural conditions.

#### Key Features

- **Class B category** - providing 95-98.9% protection against rain ingress, with integral internal drip cill and water ejection system
- **Extra strong** - aluminium construction with louvre blades screwed into flanged frame and strengthening mullion to rear
- **Bird mesh** - fitted to inside face
- **Optional** powder coat finish and variable control versions available



### Building AIR EXTRACTION to INCREASE cooling and drying EFFICIENCY

The StoreVent building air extraction system extracts warm, moist air from buildings and replaces it with cool fresh air. This avoids condensation and enables buildings to remain closed for security and quality assurance purposes.

StoreVent maximises the efficiency of crop cooling and drying systems and improves the quality of the stored crop by increasing cooling speed, reducing energy consumption and minimising insect infestation.

StoreVent works equally well with all types of crop ventilation and drying systems, including underfloor ducts.

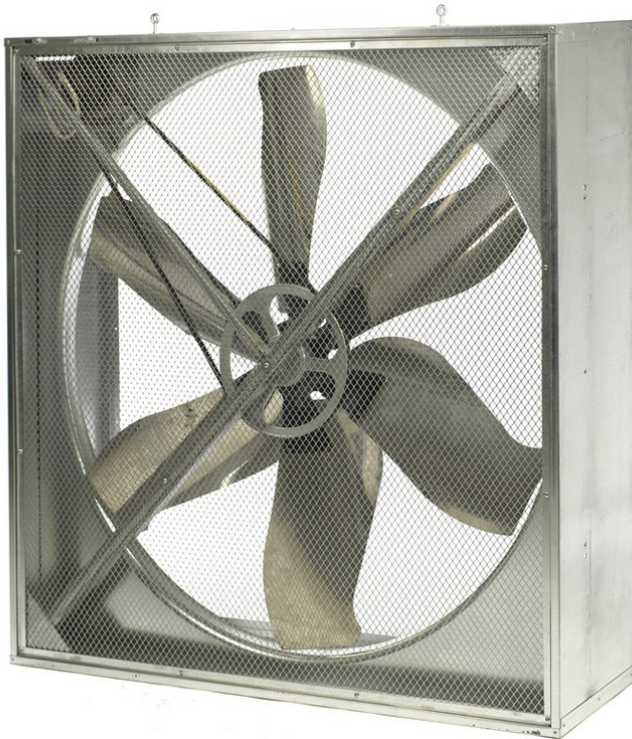
### High Volume Belt Drive Fans

#### Key Features

- **Substantial airflow**, at low pressures and low energy consumption
- **Built-in back draught shutter** - opens and closes automatically when fan switches on or off
- **Bird mesh** - fitted to both sides of the galvanised sheet steel fan housing
- **Automatic control** - can be connected to an automatic fan control system



## StockVent



### High Volume Belt Drive Fans

#### Key Features

- **Suited to large buildings**, such as cow cubicle housing
- **Substantial airflow**, at low pressures and low energy consumption
- **Available in four variations** for wall mounting, suspension mounting or floor mounting with wheels
- **Bird mesh** - fitted to both sides of the galvanised sheet steel fan housing
- **Optional built-in back draught shutter** - opens and closes automatically when fan switches on or off

## Turbulator fans

Suitable for 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.



- Control of insects in the summer months
- Overcomes dunging problems
- A reduction in heat stress

## Free-standing, wall and floor fans

Providing powerful, cool, yet effective, air movement to improve the environmental conditions of milking parlours, calf housing and a variety of agricultural buildings.



## Ventilation Socks

The Ventilation Sock System provides a constant, positive supply of fresh air to dilute foul air, create an even air movement in the building and improve the building environment at low cost.

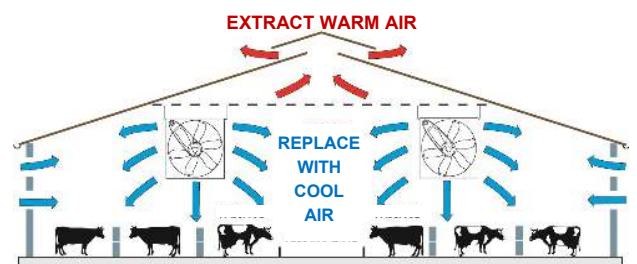


## Warm AIR EXTRACTION to REDUCE heat stress and improve PRODUCTIVITY

The StockVent system provides livestock farmers with products that maximise animal productivity, efficiency and health, including fans to ventilate large stock buildings and to circulate air in milking parlours.

StockVent enhances the quality of the environment in buildings by removing moisture, heat, harmful gasses and odours, and replenishing the supply of oxygen by bringing in cooler, drier air from outside the building - benefiting animals and farm workers alike.

## Why it is essential to ventilate livestock buildings



Heat produced by livestock naturally rises and will condense on cold roof surfaces, increase humidity and make bedding damp and cold. This increases the risk of disease and heat stress which can impact productivity, particularly milk production.

Installing a ventilation system provides a continuous stream of fresh air which improves the environment for the animals and helps to maintain and increase livestock production levels.

# Building Ventilation Details and Specifications



## StoreVent

### Belt-Drive Fans

Galvanised steel fan housing with bird proof mesh on both sides, self-cleaning stainless steel impeller and built-in centrifugally operated back-draught shutter that closes automatically when the fan switches off.

Product Codes (measurement is fan diameter):

**800mm - Single phase (SV800/1BELT); - 3 phase (SV800/3BELT)**

**1000mm - Single phase (SV1000/1BELT); - 3 phase (SV1000/3BELT)**

**1250mm - Single phase (SV1250/1BELT); - 3 phase (SV1250/3BELT)**

Fans require an individual manual or automatic starter with overload protection.



### Air Intake Louvres

Aluminium, Class B (95-98% rain protection), 30mm flanged frame, 38mm pitch fixed blade air intake louvre with rear mullion, drip cill, rear drip tray and bird proof mesh.

Product Codes (measurement refers to size of the hole in the wall required):

**1000 x 1000mm (SV1000); 1100 x 1100mm (SV1100); 1200 x 1200mm (SV1200); 1250 x 1250mm (SV1250); 1500 x 1500mm (SV1500)**

Louvres can be supplied powder-coated to order to match most cladding colours.

Moving blade and motorized louvres available on request.

**NB:** Fans and louvres should be installed by competent installation technicians.

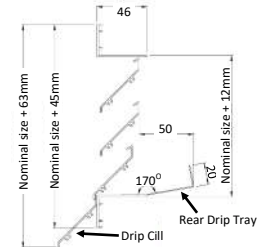
## Specifications:

Fan Code	m <sup>3</sup> /S	Pa	V	kW	A	H/W (mm)	D (mm)	Wt (Kg)	dB
SV800/1BELT	4.6	60	240	0.75	4.5	960	470	44	58
SV800/3BELT			400		2.0				
SV1000/1BELT	7.1	100	230	0.75	5.4	1150	470	50	59
SV1000/3BELT			400		2.6				
SV1250/1BELT	12.1	80	230	1.1	7.2	1380	470	70	60
SV1250/3BELT			400		2.9				

m<sup>3</sup>/S = max airflow; Pa = max pressure; V = volts; kW = power; A = Amps; H/W = height/width (mm); D = depth (mm); Wt = weight (Kg); dB = sound

### Louvre dimensions

(all sizes shown in mm)



## StockVent

### Belt-Drive Fans

Galvanised steel fan housing with bird proof mesh on both sides and self-cleaning stainless steel impeller.

**Options:** - built-in centrifugally operated back-draught shutter that closes automatically when the fan switches off; 3-step variable speed controller

Product Codes (measurement is fan diameter):

**800mm - Single phase (SVK800/1BELT); - 3 phase (SVK800/3BELT)**

**1000mm - Single phase (SVK1000/1BELT); - 3 phase (SVK1000/3BELT)**

**1250mm - Single phase (SVK1250/1BELT); - 3 phase (SVK1250/3BELT)**

Fans require an individual manual or automatic starter with overload protection.

**NB:** Fans should be installed by competent installation technicians.

## Specifications:

Fan Code	m <sup>3</sup> /S	Pa	V	kW	A	H/W (mm)	D (mm)	Wt (Kg)	dB
SVK800/1BELT	4.6	60	240	0.75	4.5	960	350	44	58
SVK800/3BELT			400		2.0				
SVK1000/1BELT	7.1	100	230	0.75	5.4	1150	350	50	59
SVK1000/3BELT			400		2.6				
SVK1250/1BELT	12.1	80	230	1.1	7.2	1380	350	70	60
SVK1250/3BELT			400		2.9				

m<sup>3</sup>/S = max airflow; Pa = max pressure; V = volts; kW = power; A = Amps; H/W = height/width (mm); D = depth (mm); Wt = weight (Kg); dB = sound



## Turbulator Recirculation Fans

Constructed with Alu-Zinc casings, with high efficiency, lightweight motors and low vibration high volume impellers.

Product Codes (measurement is fan diameter):

**450mm (SVKT450)**

**500mm (SVKT500)**

**630mm (SVKT630)**

## Specifications:

Fan Code	m <sup>3</sup> /S	Throw	kW	A	Wt	dB
SVKT450	1.31	23.4	0.545	2.31	20	64
SVK500	1.21	19.7	0.280	1.33	19	57
SVK630	2.34	22.5	0.721	3.15	30	64

m<sup>3</sup>/S = max airflow; Throw = air throw (m); kW = power; A = Amps; Wt = weight (Kg); dB = sound



## Free-Standing, Wall and Floor Fans

Powerful single phase 650mm three speed fans - deliver up to 3.83m<sup>3</sup>/s of air

Product Codes:

**Free standing (SVKFLOOR)** - supported by a cast iron base to provide sturdiness and durability

**Wall mounting (SVKWALL)** - mount to any structurally sound wall, rafter or post  
**Floor (SVKTY450)** - adjustable positioning fan for precision airflow

## Specifications:

Fan Code	m <sup>3</sup> /S	W	A	Wt	dB
SVKFLOOR	1.83-3.83	130-170	0.56-0.80	23	59
SVKWALL				14.3	
SVKTY450	1.83	1.80	0.81	5.5	n/a

m<sup>3</sup>/S = max airflow; W = power; A = Amps; Wt = weight (Kg); dB = sound



## Ventilation Sock System

Bespoke kit can include plate fan, plastic external weather cowl with integral bird mesh, rigid duct straightener, catenary wire and tensioning turnbuckles, up to 34metre [100feet] tube with holes, variable speed inverter control.

For guidance only - please contact us for advice on your specific requirement.

Product Codes:

**450mm x 24m (SVKSV450/S)** - sock 450mm dia. with max. length 24m

**630mm x 34m (SVKSV630/S)** - sock 630mm dia. with max. length 34m

StoreVent louvres are designed and produced exclusively for Martin Lishman Ltd. StoreVent and StockVent fans are manufactured by Hydor Ltd.™StoreVent and StockVent are trade marks of Martin Lishman Ltd. Martin Lishman Ltd reserves the right to alter product specifications at any time without notice.

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