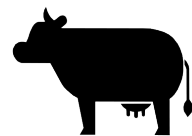


Air inlet systems

for modern livestock farming

- Made entirely of plastic and stainless steel
- An appropriate solution for every situation
- Modular system
- Flexible dimensions
- Easy to install



An optimum climate in the animal house

Your animals are your capital and the climate in the animal house is an important factor in their development. The right amount of air, of the right quality, with the right speed and in the right place for your animals. That is the secret to a healthy climate in animal houses. What is important for your animals is how the air enters the house; not how it leaves the house. Good air distribution where there is a calm,

consistent movement of air means a good climate in your animal house. The AeroWing has been carefully shaped to achieve this. The result: a constant temperature in the house, without any draughts. This should be combined with sufficient ventilation to remove temperature, moisture, CO₂, ammonia and dust. Stienen BE supplies air intake systems of several different types and designs:

- AeroWing
- AeroWing-tunnel
- AeroFlex
- AeroRoof
- AeroFree

AeroWing

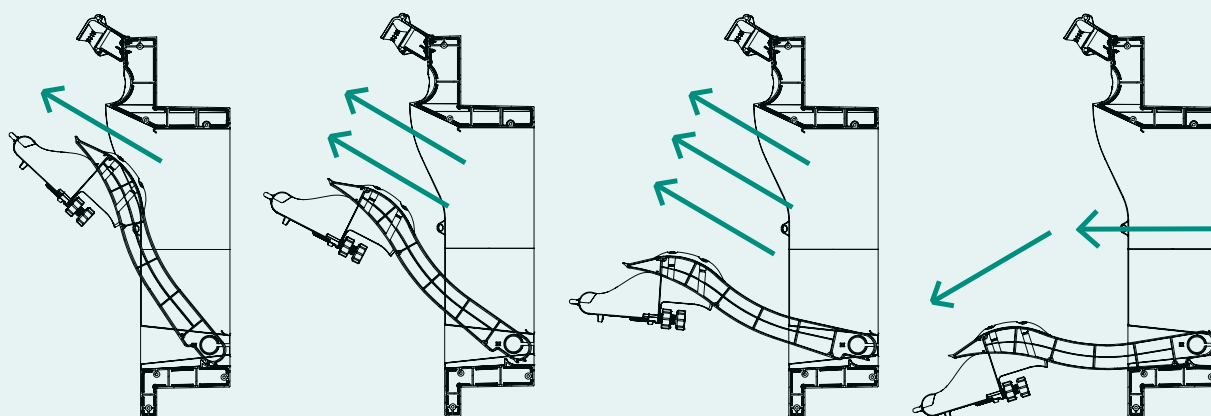
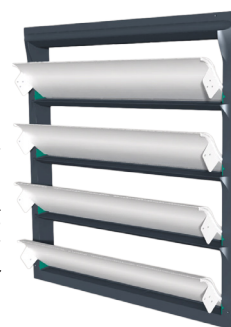
for a constant and independent incoming air throw

The aerodynamic shape of the AeroWing angles the incoming air at 22°. This means that the path of the air throw is always known and this enables ventilation independently of the roof. A constant air throw is guaranteed, even at minimum ventilation levels. The AeroWing is available in various different sizes and tunnel versions, with two, three, four or five valve layers.

AeroWing-tunnel

for extra ventilation

Tunnel ventilation can be used to increase ventilation levels on extremely hot days. Tunnel flaps are applied in addition to the conventional AeroWing in order to create a cooling effect by subjecting the animals to air at a higher velocity.



LOWERING PRESSURE DROP

If the ventilation level is 70% or higher, the pressure can be lowered to apply displacement ventilation.

Technical specifications AeroWing and AeroWing-tunnel

Type	Layers	Cut-out (mm) *		Rear view (mm)		Front view (mm)		Air flow (m ³ /h)				Force Kg
		Width	Height	Width	Height	Width	Height	10 Pa	20 Pa	30 Pa	40 Pa	
AW1-16 C	1	617	390	610	385	690	520	1,600	2,200	2,700	3,100	5
AW1-24 C	1	902	390	895	385	975	520	2,400	3,400	4,100	4,800	6
AW1-32 C **	1	1187	390	1180	385	1260	520	3,200	4,500	5,500	6,400	7
TAW2-48	2	902	745	895	740	975	875	4,800	6,700	8,300	9,500	12
TAW2-64	2	1187	745	1180	740	1260	875	6,400	9,100	11,100	12,800	14
TAW3-72	3	902	1100	895	1095	975	1230	7,200	10,100	12,400	14,300	18
TAW3-96	3	1187	1100	1180	1095	1260	1230	9,600	13,600	16,600	19,200	21
TAW3-120	3	1472	1100	1465	1095	1545	1230	12,000	17,000	20,900	24,100	24
TAW4-95	4	902	1455	895	1450	975	1585	9,500	13,500	16,500	19,100	24
TAW4-128	4	1187	1455	1180	1450	1260	1585	12,800	18,100	22,200	25,600	28
TAW4-161	4	1472	1455	1465	1450	1545	1585	16,100	22,700	27,800	32,100	32
TAW5-119	5	902	1810	895	1805	975	1940	11,900	16,900	20,700	23,900	30
TAW5-160	5	1187	1810	1180	1805	1260	1940	16,000	22,600	27,700	32,000	35
TAW5-201	5	1472	1810	1465	1805	1545	1940	20,100	28,400	34,800	40,200	40

* Tolerance deviations in width and height have been taken into account in the cut-out dimensions.

** AW1-32 C has two brackets as standard.

AeroFlex

for situations where the air needs to be steered

We recommend the AeroFlex in situations where it is very important that the air is steered. The adjustable fins steer the air in the desired direction. This enables perfect steering of the air in broad animal houses, animal houses with obstacles, or in poultry houses with aviary or cage systems. The AeroFlex with a V-type slide valve guarantees the desired throw even at minimum ventilation levels. The air is then bundled to create a 'jet stream'. To ensure a long service life, the AeroFlex is made entirely of plastic and stainless steel; it can also be custom-made to fit any opening. The AeroFlex valves are also available in transparent (daylight) and multiple designs. The AeroFlex is self-opening and is closed by a motor. The fins are installed in front of the slide; the fin position has little or no impact on the effective air intake.



Technical specifications AeroFlex

Type	Integration dimensions			Net surface area (cm ²)	Capacity (m ³ h)			Tensile force (kg)	Stroke length (mm)
	W	H	D		10Pa	20Pa	80Pa		
UF-2500	540	345	100	1525	1800	2500	2900	2	350
UF-3500	640	395	100	2130	2550	3500	4050	2.5	400
UF-5350	940	445	100	3240	3900	5350	6150	3.5	450
UF-7500	1,040	495	100	4550	5450	7500	8650	4.5	500
UF-9000	1,120	545	100	5454	6550	9000	10350	5	550

Dimensions of made to measure solutions

Width : 200-1120 mm (any increment is possible)
 Height : 245-670 mm (in 25mm increments)
 Depth : 0-500 mm (in 25mm increments)



AeroRoof

for situations that require the 'coanda' effect

The AeroRoof is self-opening and is closed by a motor. The design with a curved flap steers the air horizontally along the ceiling for an optimum 'coanda' (ceiling) effect. Versions with a straight flap direct the air downwards, in a straight line. The AeroRoof ceiling valves are available with single and double valves and are made entirely of plastic and stainless steel to guarantee a long service life. We can provide matching solutions for all applications. The valves are also available as kits that need to be assembled on site. This saves up to 70% on transport volume.

Technical specifications AeroRoof

Type	Integration dimensions			Net surface area (cm ²)	Capacity (m ³ h)			Tensile force (kg)	Stroke length (mm)
	W	H	D		10Pa	20Pa	80Pa		
PVH-E-2400	320	100	600	1456	1750	2400	2750	1.5	320
PVH-E-3350	670	100	700	2046	2450	3350	3850	2	370
PVH-E-4500	420	100	800	2736	3250	4500	5150	2.5	420
PVH-D-4800	600	100	600	2912	3500	4800	5500	3	320
PVH-D-6750	700	100	700	4092	4900	6750	7750	4	370
PVH-D-9000	800	100	800	5472	6550	9000	10350	5	420

Dimensions of made to measure solutions

Width : 320/670/420/600/700/800
 Height : 100-500 mm (in increments of 25 mm)
 Depth : 200-1120 (in increments of 25 mm)

AeroFree

for smooth and hassle-free pop-hole opening control

The AeroFree enables you to smoothly control the pop-holes to the outdoor range. The AeroFree pop-hole door is self-closing and is opened using a motor. Fitting rooms with multiple pop-holes doors offers the advantage of being able to close some shutters in cold periods. To ensure a long service life, the AeroFree pophole slide shutter is made entirely of plastic and stainless steel.



Technical specifications AeroFree

Type	Integration dimensions			Net pop-hole (mm)	Cut-out(mm)		Tensile force (kg)	Stroke length (mm)	Dimensions of made to measure solutions
	W	H	D		W	H			
KU-H1-1000	1040	540	100	1000	1050	550	6	550	Width: 200-4800 mm (any increment is possible)
KU-H1-1100	1140	540	100	1100	1150	550	6.5	550	
KU-H2-2000	2086	540	100	2001	2096	550	12	550	Height: 245-670 mm (in 25mm increments)
KU-H2-2200	2286	540	100	2201	2296	550	13	550	
KU-H3-3000	3132	540	100	3002	3142	550	18	550	Depth: 0-500 mm (in 25mm increments)
KU-H3-3300	3432	540	100	3302	3442	550	19.5	550	

Overview Aero product range

available made to measure



AeroWing



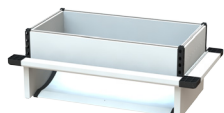
AeroWing-tunnel



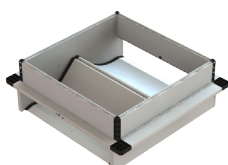
AeroFree
single



AeroFree
multiple



AeroRoof horizontal
with a single air intake



AeroRoof horizontal
with a double air intake



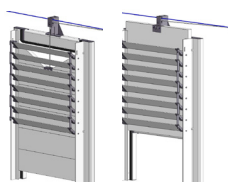
AeroRoof horizontaal
with turn-air



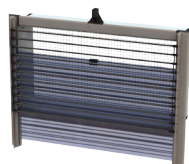
AeroRoof vertical
with a single air intake



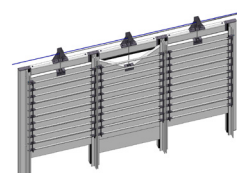
AeroRoof vertical
with a double air intake



AeroFlex with a
V-type / lag slide valve



AeroFlex
transparent



AeroFlex
multiple

Stienen BE Agri Automation

Stienen BE is a leading family company (1977) which has strong roots in the livestock farming. By nature we are very close to the farmer. We are a global supplier of innovative automation solutions for poultry and pig farms. Climate solutions, automation systems, management software and peripheral equipment are developed and produced in-house.