

MOTORS

To control air inlet systems

STW - Motor gearbox
To control the curtain control, Stienen has developed a new motor : The STW. This motor controls accurately, is reliable and ensures smooth control.



EGM - Winch motor
A robust, brushless 24V motor with a pulling force of 100 and 250 kg respectively. The EGM series is supplied as standard with a cable drum and is available with 0-10V control or potentiometer feedback.



STIENEN AGRI AUTOMATION

Stienen 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.

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AerowingSC

AIR INLET



Spring-closing

- Spring-closing: In idle state the air inlet is closed, with voltage loss the air inlet closes automatically
- Better control of minimum ventilation
- Robust central operation
- Aerodynamic design
- Constant air throw over the entire ventilation range
- Easy to assemble
- Minimal risk of freezing





Accurate ventilation

The secret of a healthy climate is to provide your animals with the right volume of fresh air at the right speed in the right place.

Your animals don't care how the air leaves the house. What matters to them is how it comes in.

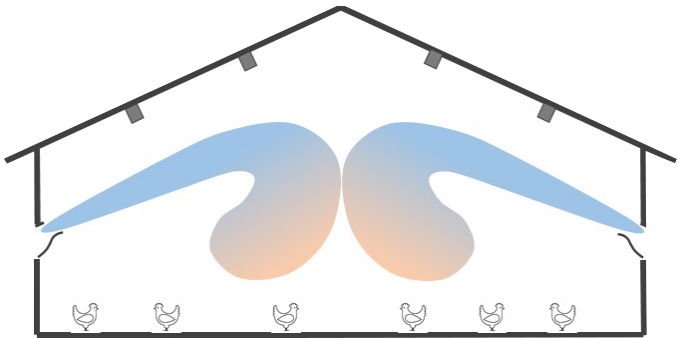
CONSTANT CLIMATE

The primary requirement for a healthy climate is a good air distribution, keeping it moving evenly all the time. The temperature in the house should remain constant and draughts should be avoided. Sufficient air exchange is necessary to remove CO₂, ammonia and dust to keep your animals healthy.

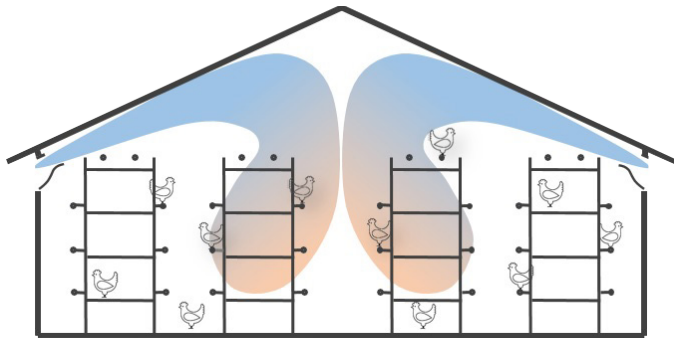
Stienen has developed the AeroWing SC to optimise the distribution of the air throughout your poultry house under all conditions.

MOUNTING POSITION AEROWING SC

The mounting position of the AeroWing SC depends on the type of housing. The example below shows two poultry houses with different housing systems: floor housing and aviary or cage housing.



For floor housing, the AeroWing SC can be installed at a low height, since the air throw is independent of the roof slope. An additional advantage of this is that obstacles at roof height, such as roof trusses, lighting or winch-suspended feed and water lines, do not affect the air distribution.

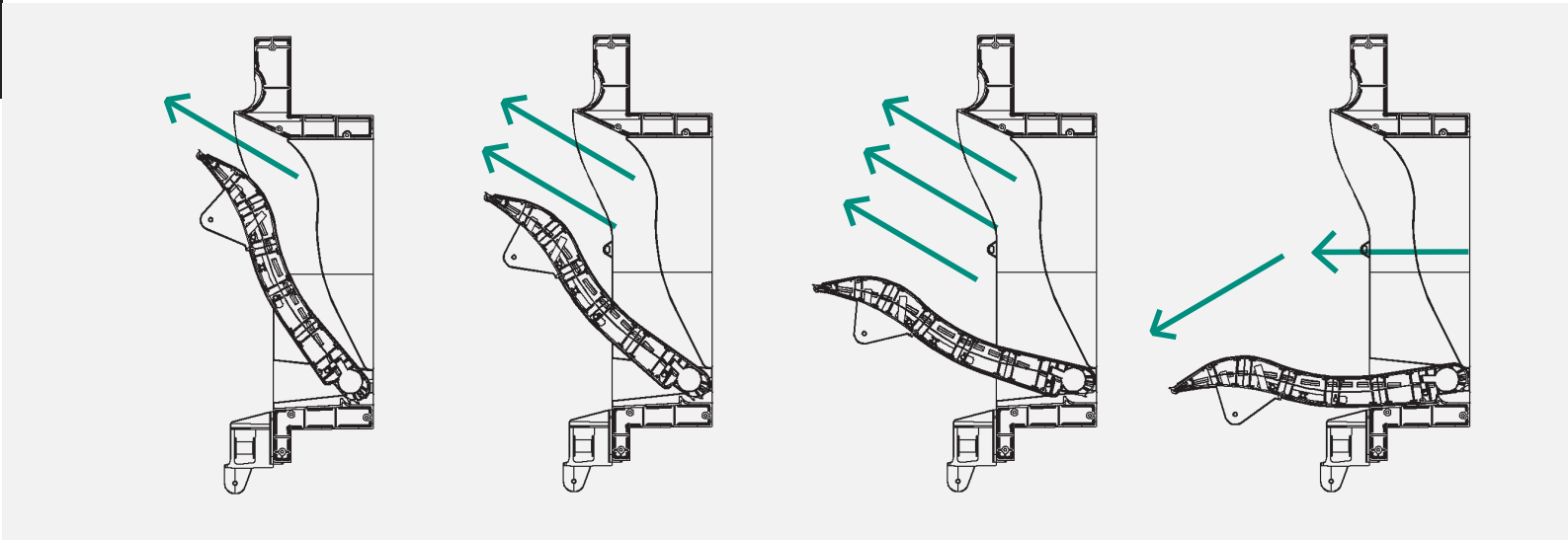


For aviary or cage housing systems, the AeroWing SC can be placed high up to ensure ventilation between the roof and the housing system.

BENEFITS AEROWING SC

1. Constant and independent air throw

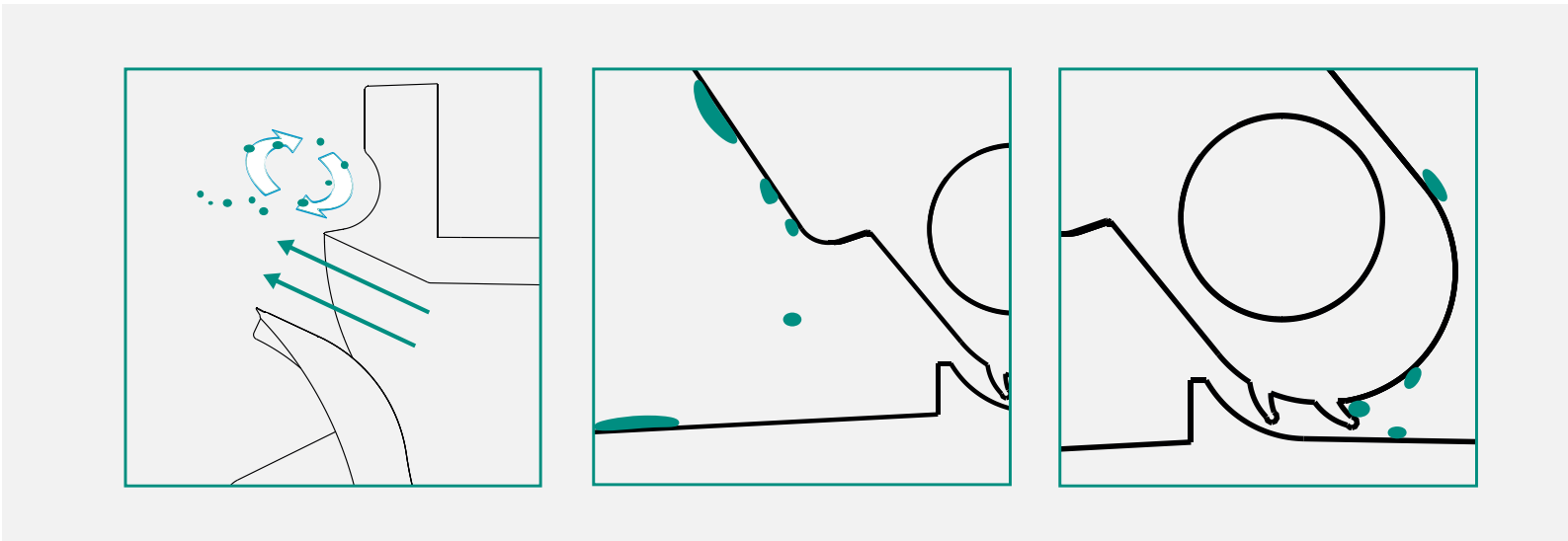
The aerodynamic design of the AeroWing SC gives the incoming air a 22-degree angle, resulting in an air throw path which is always known and enables any kind of ventilation, regardless of the roof structure. A constant air throw is even guaranteed at minimum ventilation.



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

2. Minimal risk offreezing

Cold incoming air cools the hot and moist air in the house, causing condensation. This condensate may cause moving parts to freeze. The AeroWing SC avoids this problem in three ways:



The air inlet uses the venturi effect to draw in the air inside the house along with the incoming air. The round opening keeps the air in the house moving to prevent condensate from forming on the valve.

The blunt corner on the inside of the valve and the slanted edge of the lower corner sections cause the condensate to run off the moving parts.

Two rubber strips seal the lower side of the flap to prevent the condensate from dripping into the moving parts and the air from leaking away under the valve.

SPECIFICATIONS AEROWING SC

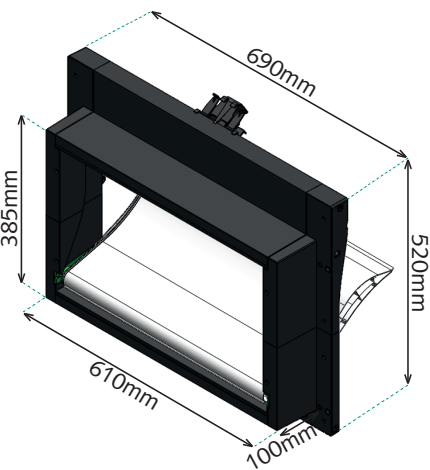
GENERAL

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OPTIONS

- Available with a plastic grille

DIMENSIONS AW1-16-SC



MATRIX

Type	Layers	Cut-out (mm) *		Rear view (mm)		Front view (mm)		Air flow (m³/h)				Force Kg	Wind up length
		Width	Height	Width	Height	Width	Height	10 Pa	20 Pa	30 Pa	40 Pa		
AW1-16-SC	1	617	390	610	385	690	520	1,600	2,200	2,700	3,100	8,5	330
AW1-18-SC	1	660	390	650	385	730	520	1,800	2,400	2,900	3,300	8	330
AW1-24-SC	1	902	390	895	385	975	520	2,400	3,400	4,100	4,800	6	330

* With the recess dimensions any tolerance variations in width or height have been taken into account.