



Ventilation chimneys

for modern livestock farming

- Made entirely of HDPE, both single walled and double walled
- UV-resistant
- Can be fitted on AQC measuring and control units and SGS fans without the use of coupling rings
- Complete product line
- 80% reduction of transport volume due to compact design
- Easy click-system assembly
- Easy to clean



Compact ventilation chimneys

air intake and air exhaust chimneys
in single- and double-walled designs

Stienen BE supplies smart, compact ventilation chimneys for air intake and exhaust. The ventilation chimneys seamlessly fit the AQC measuring and control units and SGS fans. When assembled together into one system, they are sturdy and they can be installed quickly.

To save on transport costs, the chimneys are supplied with a coupling strip. This enables them to be assembled at the project site.

To prevent condensation, this ventilation chimney is also suitable for double-walled application. The sturdy double-walled structure with an 8mm air cavity between the inner and outer walls ensures an insulation value of $2\text{W/m}^2\text{K}$.

Air supply chimneys

with integrated recirculation section for equal pressure ventilation

If the use of air inlet valves is virtually impossible or if you want to ventilate on the basis of equal pressure, the air can be brought in by applying a partial vacuum or by using an intake fan. The air supply chimney features a unique air distribution unit made up of stainless steel fins. They can be positioned in the direction required in order to easily avoid any obstacles such as purlins. The built-in recirculation section ensures that hot air in the house is mixed with the incoming fresh outside air. The insulated upper section of the chimney and the stationary air layer of 8 mm between the inner and outer walls prevent the air from condensing in the chimney. The backdraught shutter determines the recirculation air-to-outside air ratio.

Accurate air flow rate control

using a Stienen AQC measuring and control unit

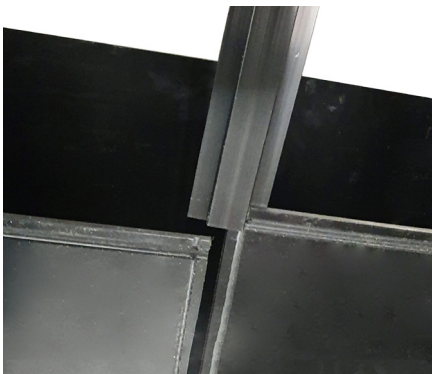


We recommend using an air entry cone to ensure the optimum functioning of the Stienen SGS fan and exhaust chimney. The air entry cone reduces air inflow resistance by 20% or more. This can be combined with the Stienen AQC measuring and control unit to regulate the air flow rate very accurately. This is because the diameter of the AQC exactly matches the diameter of the exhaust chimney.

Transportation

The HDPE ventilation chimneys can be produced in compact versions, enabling up to 80% reduction in transport volume.

Simple system



A connection profile is used to simply click the wall ends together.



The profile ensures a perfect alignment of both ends.

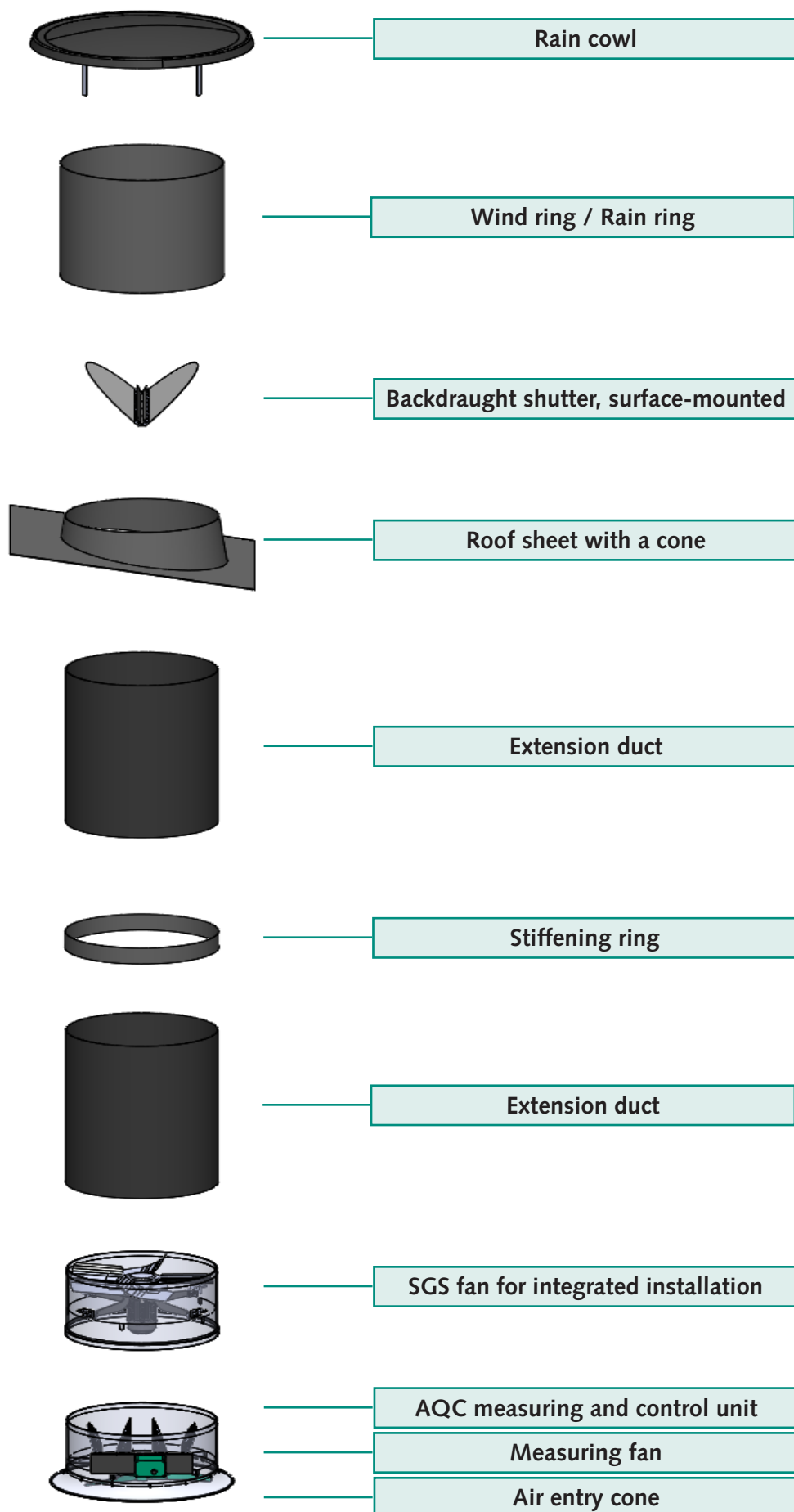


With double-walled chimneys the wall ends are attached to each other using a rubber profile.

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.

Example of an HDPE exhaust chimney with accessories



Technical specifications

Ø Chimney (mm)	Design*			
	Air intake chimney capacity (m ³ /h) measured at 20 Pa	Air supply chimney capacity (m ³ /h) combined with SGS fan measured at 50 Pa	Ø AQC (mm)	Air exhaust chimney capacity AQC (m ³ /h) compatible with exhaust chimney, measured at an air speed of approx. 7 m/s
320	1.400	×	300	1.700
370	2.000	×	350	2.400
420	2.600	×	400	3.100
470	3.200	×	450	4.000
520	3.900	×	500	5.000
580	4.900	×	560	6.200
645	6.100	10.000	630	7.600
730	7.800	13.000	710	10.000
820	9.800	22.400	820	12.800
920	12.400	25.500	920	16.500

* Available as HDPE compact, HDPE welded, PUR 40mm with fibre glass coating and 25mm PUR Optimavent.

Accessories (optional)

The following accessories are available for all chimney sizes listed:

