Ventilation

DACS

Company profile

DACS A/S is a family owned business, based in Denmark, established in 1982.

DACS produce ventilation systems, climate and production controllers, weighing systems and management systems for the agricultural business.

We see a close link between in-house environment, animal welfare, and profitability. Hence we base our engineering and development on the latest research and combine it with a company tradition for high quality products and a strong focus on animal welfare.

Our customers demand reliable, up to date solutions that help increase profitability. The balanced ventilation system from DACS is one example of a well engineered, profitable system, offering potential savings on heating costs of up to 50 % compared to other systems - and yet a superior in-house environment every day of the year.

We operate globally.

www.dacs.dk

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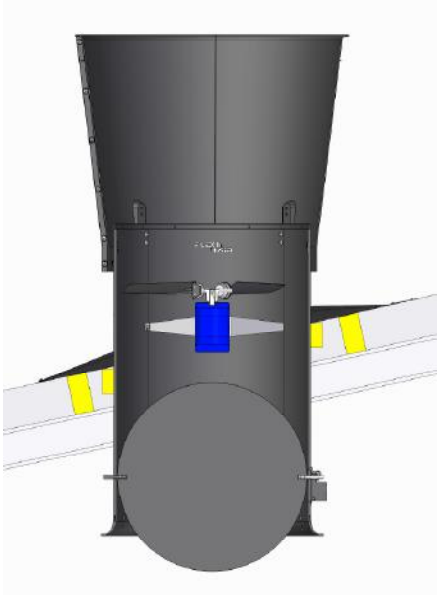


FAU 740

Exhaust ventilator

The backbone of the FAU740 exhaust fan is our newly developed chimney panel which reduces shipping volume by as much as 80 percent.

The flexible construction is highly impact resistant and offers a superior insulation value. It can be built to any length in increments of 115cm and needs no structural support thanks to the high-tech expanded ABS manufacturing process.

The precision in manufacturing makes these chimneys unusually easy to assemble and install, and the result is a high efficiency roof mounted exhaust fan, unique in its simplicity and virtually maintenance free.

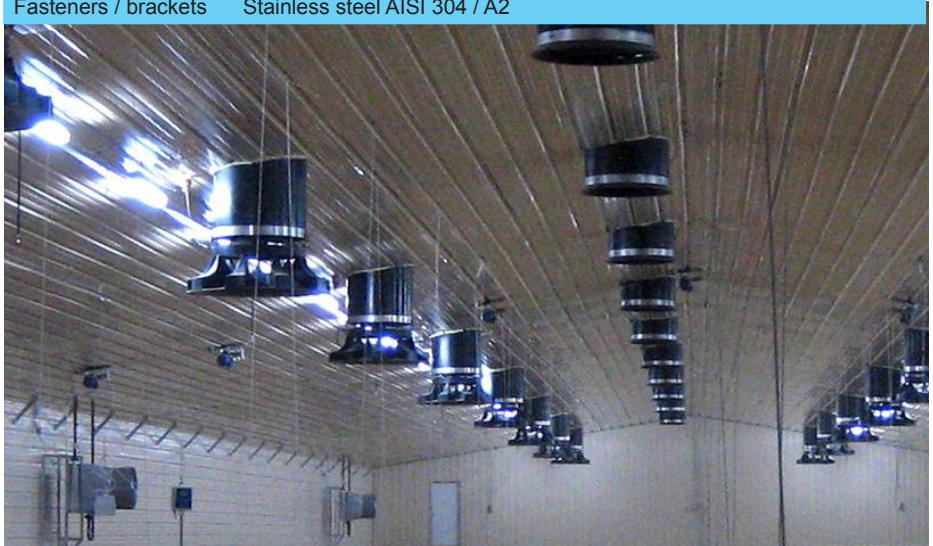
Balanced ventilation

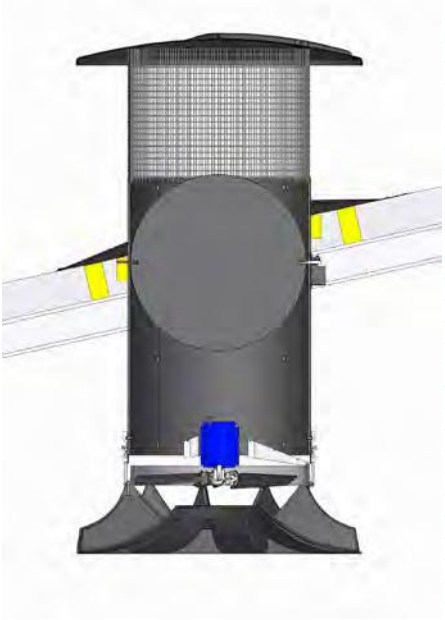
Negative pressure systems

Curtain sided houses

The FAU 740 exhaust unit is available with 3 different capacities:

Technical specifications				
	Motor 3 x 230 / 400V	1,10 A	1,90 A	2,85 A
	Shaft output power	0,3 kW	0,6 kW	0,9 kW
Fan 920 RPM	Volume Flow at 0 Pa	15.000 m^3/h	18.000 m^3/h	21.500 m^3/h
	Fan blade pitch	37,5°	45°	45°
Chimney	Diameter	760 / 740 mm		
Damper	Butterfly / turning	765 / 735 mm		
Material	ABS and stainless steel			
Fasteners / brackets	Stainless steel AISI 304 / A2			





Corona D

Inlet unit for poultry production

Today´s poultry producers realize that optimum bird performance is closely linked to in-house environmental factors. Deviations from target values of humidity and temperature cause discomfort and may seriously hurt bird performance and overall profitability. The Corona Dstrat inlet ventilation unit from DACS ensures complete mixing of incoming air with warm room air, before distributing the air gently and evenly in the bird zone.

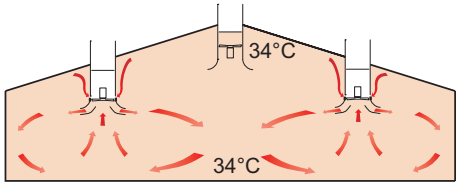
Better performance

The first days after arrival of the day-old birds the CoronaD inlet units constantly distribute warm air in the bird zone. The constant flow of air removes pollutants such as CO_2 and keeps the litter dry. Dry litter prevents ammonia production. CO_2 and ammonia restrain the development of the birds. During the growout period, and depending on outside climatic conditions, dampers adjust automatically, maintaining at all times the correct mixing percentage between incoming air and warm room air before distributing the air in the bird zone.

50% lower heating costs

The precisely controlled mixing of incoming air with warm room air lowers the heating costs by 50% compared to other ventilation systems.

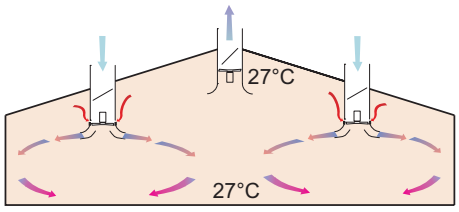
Technical specifications			
Corona D	Motor	3x400V/1.1 A	0,3 kW
	Volume flow	12000 m³/h	at 0 Pa
	Fan blade pitch		32,5°
Chimney	Diameter	760 / 740 mm	
Damper	Turning		
Material	ABS and stainless steel		
Fasteners / brackets	Stainless steel AISI 304 / A2		



Destratification

At low ventilation rates (when it is very cold outside and when the birds are small), the CoronaD mixes a minor quantity of cold incoming air with warm room air, before distributing the air evenly throughout the house, eliminating thereby draught and cold air droppings. Depending on damper position, the mixing percentage of incoming air / warm room air changes automatically. The breeze of tempered air effectively removes pollutants and humidity from the occupied zone, and a stable, well defined flow pattern can be established under all conditions.

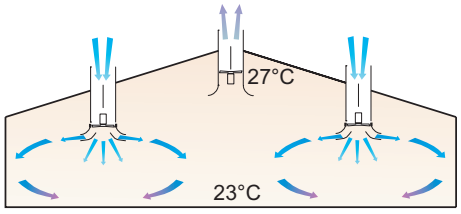
In addition to the wellfare benefits, the continuous mixing of the air eliminates heat stratification and significantly reduces heating costs.



Mixing

With partially opened dampers, the CoronaD mixes a larger quantity of incoming, cool air with warm room air. Still depending on damper position, the mixing percentage of incoming air / warm room air changes automatically. The desired temperature in the bird zone adjusts quickly and efficiently, ensuring even and appropriate temperatures, high air quality and comfort.

As the need for higher air exchange rate in the house increases, the air flow pattern gradually changes from horizontal to a slightly downwards flow.



Full Flow

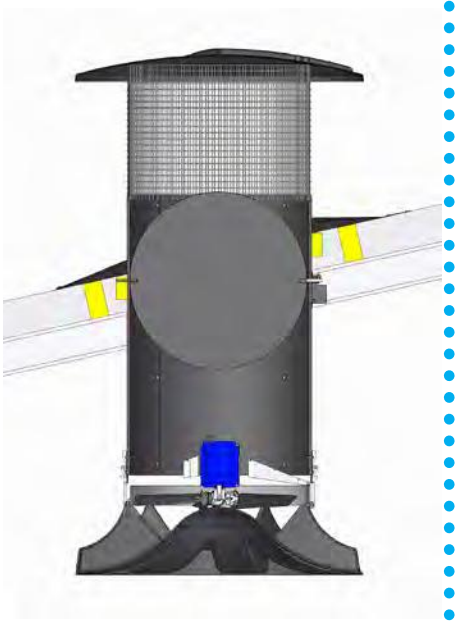
Dampers in vertical position allow for maximum airflow and no air mixing because the mixing action is suppressed by the main flow.

At this stage, the center venturi acts as an extra discharge that allows for vertical air distribution.

The CoronaD forces the cool air outwards and downwards, giving maximum airflow and air speed in the occupied zone. This unique air distribution pattern ensures abundant air supply and a high degree of thermal comfort. Fully opened dampers are used during hot weather with full grown birds.

Studies have shown that the vertical air distribution pattern leads to significantly higher cooling effects than tunnel ventilation systems with equivalent air capacity, thereby reducing the heat load under hot weather conditions.

The adjustment of the damper in the chimney is computer controlled, and no manual adjustment is needed.



Corona S

Inlet unit for pig production

Optimum performance in a pig house is closely linked to in-house environmental factors. An unstable environment causes discomfort and may seriously hurt performance and overall profitability. The CoronaS inlet ventilation unit from DACS ensures complete mixing of incoming air with warm room air, before distributing the air gently and evenly in the occupied zone.

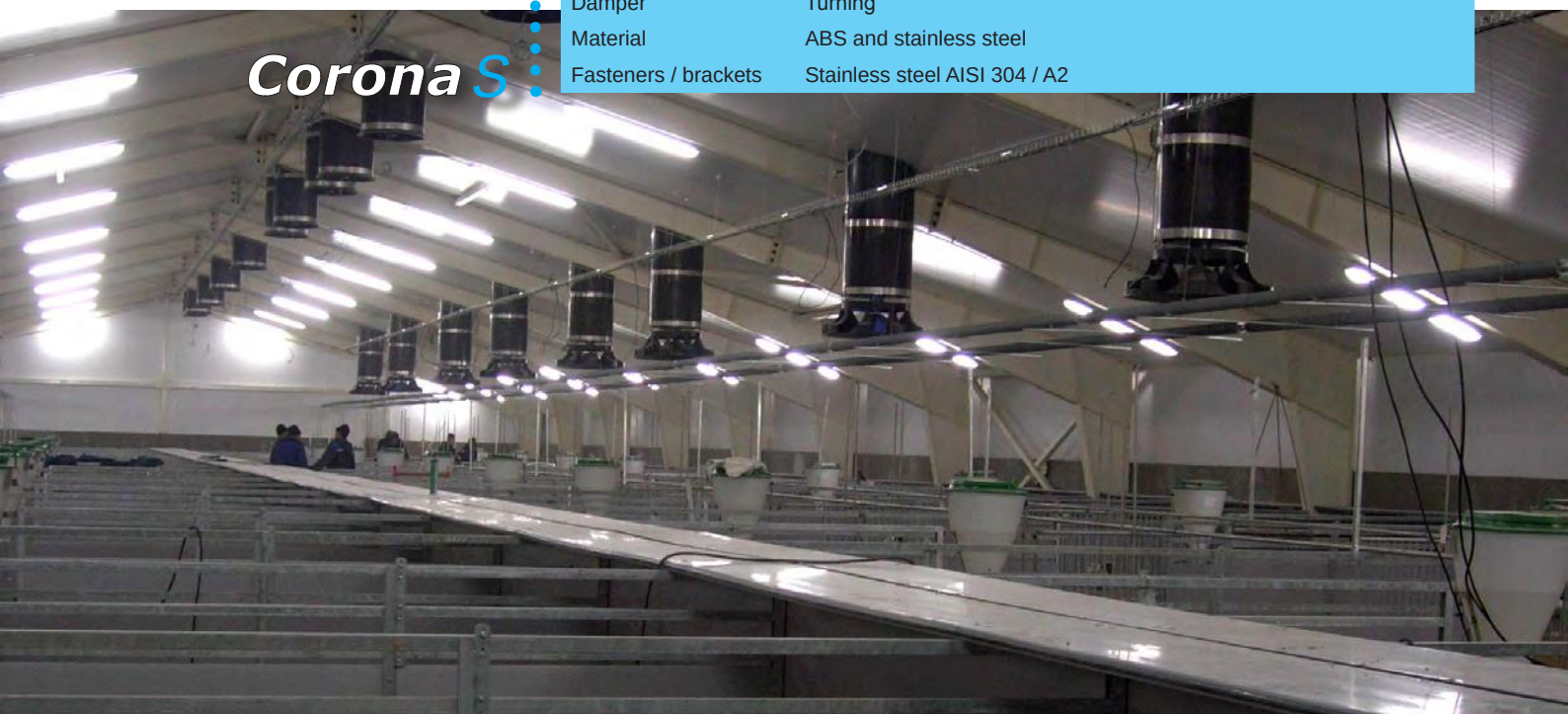
Better performance

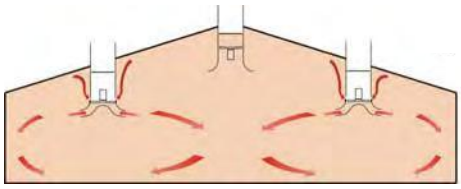
Depending on age of animals and outside conditions the CoronaS inlet units constantly distribute the warm air in the occupied zone. The constant flow of air removes pollutants such as CO_2 and keeps the building dry and pleasant. During the growout period, and depending on outside climatic conditions, dampers adjust automatically, maintaining at all times the correct mixing percentage between incoming air and warm room air, before distributing the air in the occupied zone.

50% lower heating costs

The precisely controlled mixing of incoming air with warm room air lowers the heating costs by 50% compared to other ventilation systems.

Technical specifications					
Corona S	Motor	3x400V/1.1 A	0,3 kW	3x400V/1.9 A	0,6 kW
	Volume flow	12000 m^3/h	at 0 Pa	15000 m^3/h	at 0 Pa
Fan blade pitch	32,5°				
Chimney	Diameter	760 / 740 mm			
Damper	Turning				
Material	ABS and stainless steel				
Fasteners / brackets	Stainless steel AISI 304 / A2				



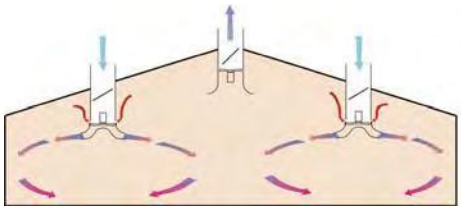


Destratification

At low ventilation rates (when it is very cold outside), the CoronaS mixes a minor quantity of cold incoming air with warm room air, before distributing the air evenly throughout the house, thereby eliminating draught and cold air droppings. Depending on damper position, the mixing percentage of incoming air / warm room air changes automatically.

The breeze of tempered air effectively removes pollutants and humidity from the occupied zone, and a stable, well defined flow pattern can be established under all conditions.

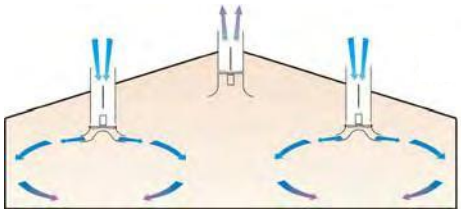
In addition to the welfare benefits, the continuous mixing of the air eliminates heat stratification and significantly reduces heating costs.



Mixing

With partially opened dampers, the CoronaS mixes a larger quantity of incoming air with warm room air - still depending on damper position, the mixing percentage of incoming air / warm room air changes automatically. The desired temperature in the occupied zone adjusts quickly and efficiently, ensuring even and appropriate temperatures, high air quality and comfort.

As the need for more air increases, the baffle in the chimney adjusts automatically allowing more air to enter the house.



Full Flow

Dampers in vertical position allow for maximum airflow and a minimum air mixing because the mixing action is suppressed by the main flow.

The CoronaS forces the cool air outwards, giving maximum airflow and air speed in the occupied zone.

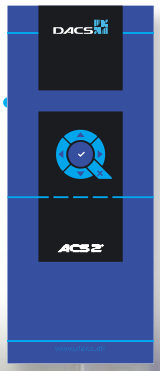
Full Flow is used during hot weather. Under such condition, cool air is forced downwards, entering the occupied zone at relative high velocities. This unique air distribution pattern ensures ample air supply and a high degree of thermal comfort.

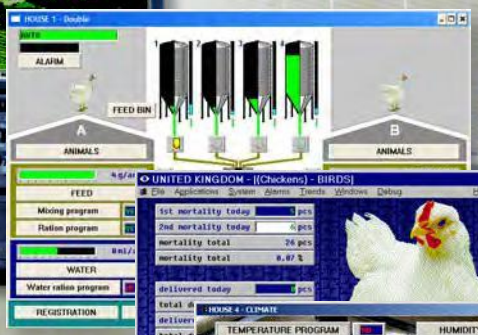
The adjustment of the damper in the chimney is computer controlled, and no manual adjustment is needed.

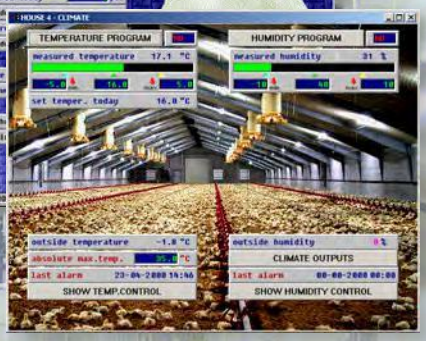
Controllers
for poultry and pig production

The DACS series of climate- and production controllers for poultry and pig facilities are logic and simple to work with. All ACS controllers can be linked to a central PC via the ACSlink Management system - a unique, real time communication system, that integrates all your production facilities.

In addition we manufacture bird scales, feed weighing systems, and alarm systems.







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