

Fancom[®]
forward thinking





No cold air drop on your animals

Fancom offers a unique Fantura air inlet system distinguished by the special shape of the inlet that bundles the incoming air for a better throw. Fantura ensures a constant and uniform supply of fresh air into the house under all circumstances. Cold air no longer drops onto your animals and the litter stays nice and dry which eliminates foot problems. Your animals stay healthy, grow better and the even growth conditions improve uniformity. The Fantura air inlet system consists of an air inlet, an intelligent actuator motor and a smart control computer.

Always enough fresh air in every part of your house

When a conventional air inlet is set to the minimum ventilation position, a long, narrow opening is created. The cold, incoming air has too little mass, and its flow speed decreases too rapidly so it drops onto the animals. A special jet stream formed by the Fantura air inlet valve changes the shape of the inlet into a compact, rectangular opening. The incoming air is bundled which creates a better throw so that all the animals in the house can benefit from sufficient supplies of fresh air. The system works fully automatically, which eliminates the need to close the inlets manually. This saves times and prevent errors.



Aerodynamic

The aerodynamic housing is fitted with an air entry cone which reduces the air resistance. In combination with the jet stream, the Fantura air inlet valve delivers up to 30% more capacity. This means you can reduce the number of air inlets. This also has a positive effect on energy consumption.



Years of trouble-free operation

The Fantura inlets are made from a special polyurethane. This ensures a high insulation value and an extra robust exterior. The special seals are dimensionally stable, wear-resistant, and will not expand or contract. This guarantees a perfect seal and optimal air control. Condensation and the inconvenience of frozen inlets will be a rare occurrence. You can rely on your ventilation system to provide years of trouble-free operation.





Fantura in every house

The Fantura air inlet system is available in four versions: a wall inlet, a ceiling inlet, a sliding inlet and a tunnel inlet. This enables Fancom to offer a suitable Fantura air inlet system for every type of house.

Wall inlets

Wall inlets are built into the side wall of pig and poultry houses. The incoming air is directed to the ridge of the building where it mixes with the warm air in the house. There are two models, a plastic version (>-5°C) and an extra insulated PU version (>-35°C). The air inlet is spring-closed, which makes it easier to control in the minimum ventilation range and ensures an airtight seal when the inlet is closed.



Ceiling inlets

The ceiling inlet has been specially designed for wider houses with lowered ceilings and enables pre-treatment of the incoming air. A single and a double version is available. The special V-shaped inlet expels the fresh air so powerfully that a capacity of up to 80% flows horizontally along the ceiling. The incoming air can mix better with the air already in the house and prevent temperature fluctuations. Moreover, the ventilation system stays in an accurately controllable position for longer and only switches to tunnel ventilation if it is absolutely necessary. This not only saves energy, but also means the animals experience fewer draughts. There are fewer respiratory problems and the growth performance of the animals is better.

Sliding inlets

The sliding inlet has been specially designed for houses with nesting boxes, cages or other obstacles that can disrupt the air flow. To avoid obstacles in the house, the user can control the direction of the incoming air using four louvres that can be independently set in a certain position. The louvres click into the set position. They also stay in place when the house is being cleaned, for example. The capacity of the inlet is regulated using a plate that moves vertically. The special guide system prevents the plate from clamping. The plate is removable for proper cleaning. A Greenline version is also available in addition to the Fantura sliding inlet. This offers the same practical advantages, but without the special Fantura jet stream.





Tunnel inlet

The Fantura tunnel inlet has a number of unique properties. What makes the tunnel inlet unique is the special way it opens. The panels slide smoothly from top to bottom and create a gradual increase in the flow of ventilation in the house. The clever design with the Fantura jet stream prevents incoming air from dropping directly onto the animals, so your animals can enjoy the cooling breeze effect of the air flow without any disruption.

Also for minimum ventilation

The gradual opening action in combination with the inlet's unique shape also makes the tunnel inlet ideal for minimum ventilation. This effect is a good way of cutting costs as there is no need to install additional inlets above the tunnel inlet.



Years of trouble-free operation

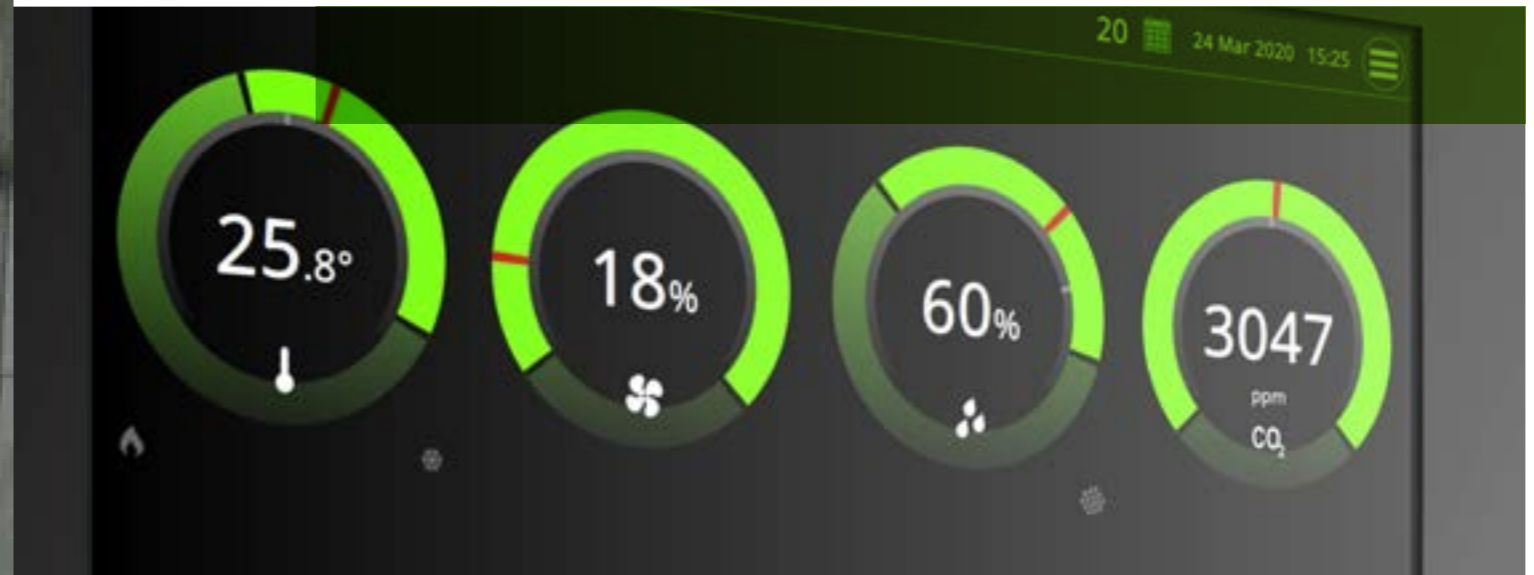
With a capacity of no less than 38,000 m³, the Fantura tunnel inlet delivers a top performance. The inlet is airtight and well insulated and made of materials that are perfectly resistant to weather influences and the aggressive substances in the air inside the house. Users can rely on years of trouble-free operation.

Intelligent actuator

The Fantura system works in combination with the Fancom climate computer and the intelligent actuators. Depending on the capacity needed, the actuator determines the optimum position of the air inlet, taking into account the Fantura jet stream in the air inlet opening. This guarantees the correct flow of fresh air under all circumstances.

The Fantura system has two types of actuator. Choose the iM.60 to control the air inlets and small air inlet valves, and the iM.125 for more heavy-duty applications. A long service life and reliable control are the key features of our actuators.





Intelligent control computer

The intelligent control functionality of the Lumina climate computers helps you maximise the benefits of the unique features of the Fantura air inlet systems. The controller automatically optimises the inlet positions to ensure a sufficient supply of fresh air for all animals in the house in all conditions.

Easy operation

The huge advantages of the modern Lumina climate controllers are a clear overview and convenience. Lumina software is characterised by the use of clear icons and colours: green means everything is fine, red means that some aspect needs your attention. Handy navigation buttons on the main screen give direct access to the most important climate data from the houses.

Unique controls

- The controller always selects the optimal settings for heating and ventilation. This prevents ventilation removing heat from the house unnecessarily and keeps your heating costs under control
- Minimum ventilation is automatically optimised for the best possible start for young animals
- Even in the minimum ventilation

range, cooled air can flow into the house to prevent heat stress in young animals

- The ventilation control takes outside the humidity in the house into account and prevents heat stress





Technical specifications

Fantura

Type	Airflow in m3/h (CFM) Best circumstances pressure Pa (Pascal)				Force kg	Stroke mm	Weight kg	Insulation Rc-value	Dimension edge		Dimension built-in part			
	10	20	30	40					Height (mm)	Length (mm)	Height (mm)	Length (mm)	Depth (mm)	
Fantura inlet >-35°C	2600	3600	-	5000	6	490	5,2	0,91	455	970	375	890	136	
Fantura inlet >-5°C	2600	3600	-	4800	6	440	6,6	0,5	457	913	389	860	141	
Fantura ceiling double	3420	4840	-	6970	6,5	260	3,5	0,83	710	800	610	610	25	
Fantura ceiling single	1608	2211	-	3113	3,25	260	1,85	0,83	710	485	610	340	25	
Fantura sliding inlet	Maximum capacity* (m3/h)	2500	3600	4200	5000	3	420	3,7	0,91	860	760	763	470	93,5
	Minimum capacity* (m3/h)	31	45	57	63									
Fantura tunnel inlet		26700	38200	47450	53200	-	-	70	0,83	1905	1905	1825	1825	198

Intelligente aandrijfmotoren

Type	Power supply	Frequency	Current (A)	Capacity (kw)	Thermal protection	Torque (nm)	Tensile force (kg) ø50 mm	Tensile force (kg) ø80 mm	Tensile force (kg) ø106mm	Min/max stroke (cm) ø50mm	Min/max stroke (cm) ø80mm	Min/max stroke (cm) ø106mm	Running speed (revs/min) 50/60hz
iM.125	230Vac	50/60Hz	1.0/1.2	0.09	yes	125	450	300	225	23-195	35-300	50-400	2.0 / 2.4

Type	Power supply	Frequency	Current (A)	Capacity (kw)	Current protection	Pulling torque (nm)	Holding torque (nm)	Tensile force 50/65mm (kg)	Holding force 50/56 mm (kg)	Min. No. Revs	Max. No. Revs.	Running speed (revs/min)	Min/max stroke (ø50mm)	Min/max stroke (ø60mm)
iM.60	24Vac	50/60Hz	0.8	45	yes	60	40	250/190	167/127	0.7	2.7	0.95	11-40 cm	15-53 cm

fantura



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