

FANTURA INLET



PRODUCT APPLICATION MANUAL

GB230717

Introduction

The Fantura inlets are part of the Fantura air inlet system designed to create optimal climate conditions in pig and poultry houses. The Fancom Fantura air inlet system is applied in closed houses which use an under pressure ventilation system. The system consist of a special designed actuator (iM.60 or iM.125) and Fantura inlets. The Fantura inlets are air inlets for wall mounting. The unique air inlet system ensures a constant, even supply of fresh air into the house in all conditions. The special design puts an end to cold air dropping down onto your animals and the litter stays nice and dry, avoiding foot problems. Your animals stay healthy and grow better, and the consistent growth conditions improve uniformity. The design of the inlet consists of a integrated jet stream on the inlet which changes the shape of the inlet opening to a compact, rectangular aperture. The incoming air is bundled, creating a better throw, and is directed to the ridge of the house where it can mix with the warm air inside the house. In relation with the unique design, the capacity is not linear with the opening of the air inlet. For this reason, it is not possible to use an arbitrary actuator. Especially for this application Fancom developed two types of actuators: iM.60 and iM.125. These actuators can also be used with a transitional air intake system. When the local absolute outside temperature / incoming air temperature is not lower than -5°C (23°F) for poultry and pigs, the Fantura inlet > -5.0 °C is suitable otherwise use the > -35.0 °C.

	Article number	Description
	4409165	Fantura inlet > -5,0°C
	4409170	Fantura inlet > -35,0°C
	4409171	Fantura inlet > -35,0°C with a flat backside for easier finish

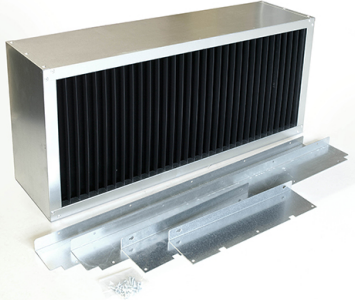
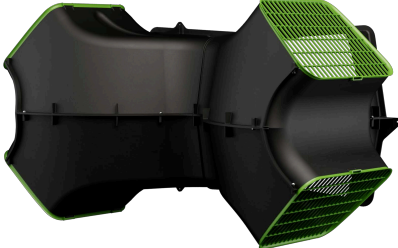


Features


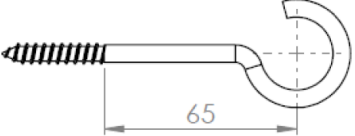


- Inlets can be used in pig and poultry houses with every slope of ceiling and flat ceiling.
- Inlets are flange built- in.
- The flap of the Fantura inlet > -5,0°C is insulated with expanded polystyrene.
- The Fantura inlet > -35,0°C is completely made of polyurethane.
- Fresh air throughout the house even with minimum ventilation.
- By the use of sealings there are no leakages.
- No need to close a part of the inlets at minimum ventilation (less labour).
- Also at maximum ventilation an optimum airflow is guaranteed.
- The air inlets are spring closed making them 100% close in the closed position.
- The air inlets are bottom hinged.
- Air inlets are standard provided with a netting.
- Air inlets are standard provided with a connection set.

- Easily mounted on each type of wall.
- The air inlets are provided with a bracket for the main cable or rod making mounting easier.
- Easy to clean for optimal hygiene (caution is advised with high-pressure cleaning
Maximum pressure: 100-120 bar, minimum spray distance: 40 cm (15,7 inch)).
- A complete range of accessories (like light filters and windhoods) is available.

Options

Article number	Description	Image
3859135	<p>Pully set Fantura >-35,0°C vertical</p> <p>Complete pulley set where the winch motor (iM.60 or iM.125), provided with a single band drum, is mounted vertical.</p>	
3859136	<p>Pully set Fantura >-35,0°C horizontal</p> <p>Complete pulley set where the winch motor (iM.60 or iM.125), provided with a single band drum, is mounted horizontal.</p>	
3859140	<p>Pully set Fantura >-5,0°C – 1500 – 3500 vertical</p> <p>Complete pulley set where the winch motor (iM.60 or iM.125), provided with a single band drum, is mounted vertical.</p>	
3859141	<p>Pully set Fantura >-5,0°C -1500 - 3500 horizontal</p> <p>Complete pulley set where the winch motor (iM.60 or iM.125), provided with a single band drum, is mounted horizontal.</p>	
2799367	<p>Cable Pully 65mm inner corner Fantura >-35°C</p> <ul style="list-style-type: none"> • Cable pulley can be used to guide the cable with through an inner corner of 90°. • Made of stainless steel. 	

<p>4409028</p>	<p>Light filter Fantura / 3500 inlet</p> <ul style="list-style-type: none"> ● Avoid light entrance through the inlets. ● PVC louvers built in metal galvanised frame. ● Light reduction factor: approx. 8.540.000. ● Mounting kit with 8 cm high strips (distance wall to light filter approximately 6 cm). ● Galvanized frame. ● The windhood causes 5% loss of capacity of the air inlet. 	
<p>2859594</p>	<p>Fantura Windhood</p> <ul style="list-style-type: none"> ● Eliminates the influence of wind pressure from outside ● Special design has no loss of capacity of the air inlets ● More information in the PAM Fantura Windhood ● 	
<p>32459022.01 32459022.02</p>	<p>Main cable 5mm plastic 75 meter Main cable 5mm plastic 100 meter</p>	
<p>2459102</p>	<p>Rod 3 M. + Connection Nut SS</p>	

3859034	Connection set belt – rod Connection set for connecting from band to rod.	
2420274	Screw eye Fantura > -35,0°C inlet <ul style="list-style-type: none"> ● Use at a mutual distance between the inlets of more than 3 m. ● Thickness 6 mm. ● Galvanised. 	
2420275	Screw eye Fantura > -5,0°C / 1500 / 3500 inlet <ul style="list-style-type: none"> ● Use at a mutual distance between the inlets of more than 3 m. ● Thickness 7 mm. ● Galvanised. 	
2799376	Fantura guiding bracket <ul style="list-style-type: none"> ● Easy mounting on sandwich panel. ● Use at a mutual distance between the inlets of more than 3 m. ● Both 65 mm and 100 mm spacing. 	

Technical specifications

Operation		
	Fantura > -5,0°C	Fantura > -35,0°C
Airflow 10 Pa (0.04" H2O)	2600 m ³ /h (1530 cfm)	2600 m ³ /h (1530 cfm)
Airflow 20 Pa (0.08" H2O)	3600 m ³ /h (2118 cfm)	3600 m ³ /h (2118 cfm)
Airflow 40 Pa (0.16" H2O)	4800 m ³ /h (2825 cfm)	5000 m ³ /h (2943 cfm)
Force	6.0 kg	6.0 kg
Stroke	440 mm (17.3")	490 mm (19.3")
RC value thermal resistance	0.50 m ² (19.7")	0.91 m ² (35.8")
U value thermal resistance	2.00 W/m ² K	1.10 W/m ² K

Dimensions		
	Fantura > -5,0°C	Fantura > -35,0°C
Edge height	457 mm (18.0")	455 mm (17.9")
Edge length	913 mm (35.9")	970 mm (38.2")
Built-in part height	389 mm (15.3")	375 mm (14.7")
Built-in part length	860 mm (33.9")	890 mm (35.0")
Built-in part depth	141 mm (5.6")	136 mm (5.4")

Housing		
	Fantura > -5,0°C	Fantura > -35,0°C
Dimensions	920x141x389 mm (36.2x5.6x15.3")	970x136x375mm (38.2x5.4x14.8")
Weight (unpacked)	6.6 kg	5.2 kg

Ambient climate	
Operating temperature	
Fantura inlet >-5,0°C	-5°C to +50°C (23°F to 122°F)
Fantura inlet >-35,0°C	-35°C to +50°C (-31°F to 122°F)
Storage temperature range	-10°C to 50°C (14°F to 122°F)

Dimensions

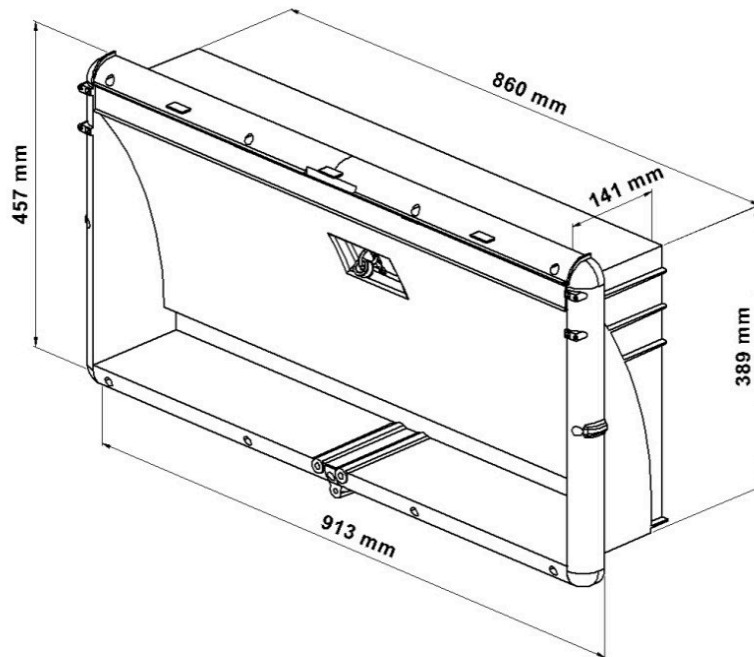


Figure 1: Fantura inlet >5,0°C

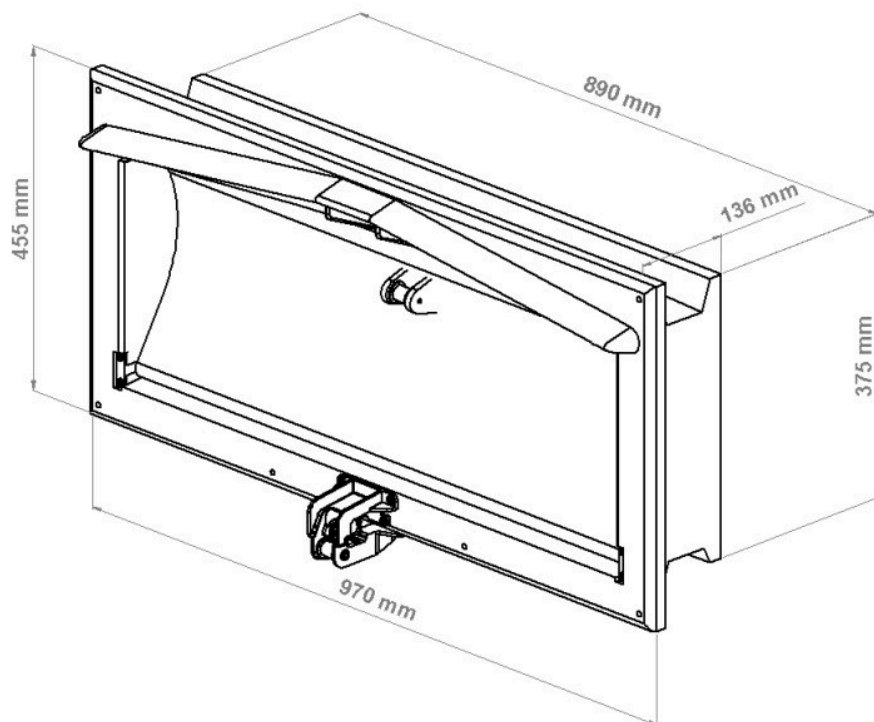
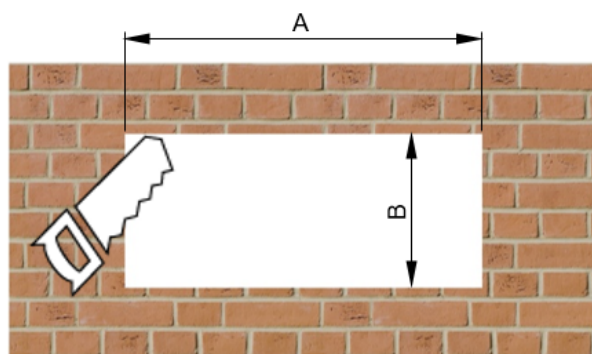


Figure 2: Fantura inlet >35,0°C

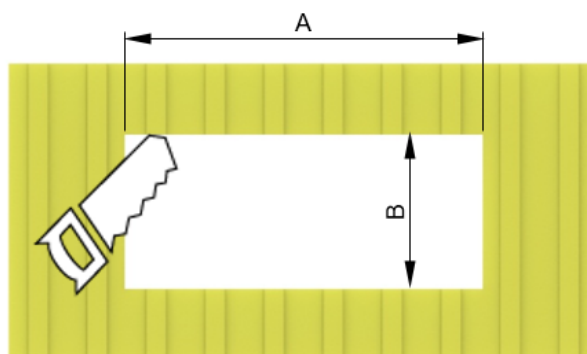
Mounting instructions

Hole in concrete



Fantura > -5,0°C
A = 880 mm
B = 400 mm
Fantura > -35,0°C
A = 910 mm
B = 385 mm

Hole in panel



Fantura > -5,0°C
A = 865 mm
B = 395 mm
Fantura > -35,0°C
A = 895 mm
B = 380 mm

Installation examples

Example 1

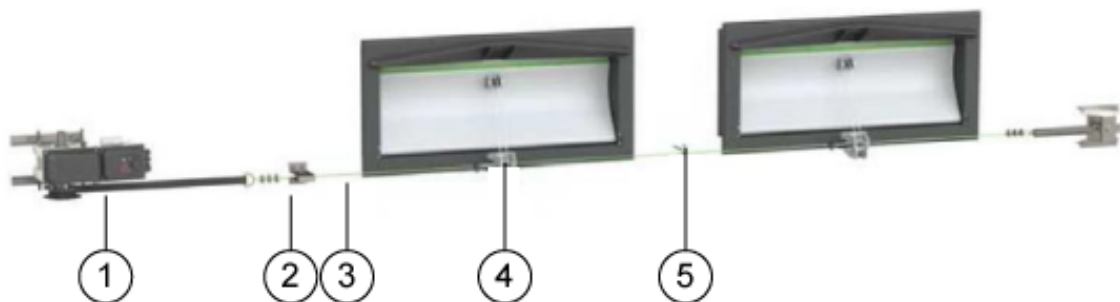


Nbr	Article number	Description
1		Drive motor*
2	3859135	Pully set Fantura >-35°C vertical
3	32459022.01 32459022.02	Main cable 75m Main cable 100m
4	4409170	Fantura inlet >-35.0°C
5	2420274	Screw eye Fantura >-35°C

*Selection drive motor

Nbr	Article number	Description
1	35332021	iM.60 24V + CPS
2	34331015 34331016	iM.125 200-230V 50 HZ 1-PH iM.125 200-230V 60 HZ 1-PH
3	5450100	Belt drum D 50mm iM.60 + belt
4	5450105	Belt drum D 55mm iM.125 + belt

Example 2

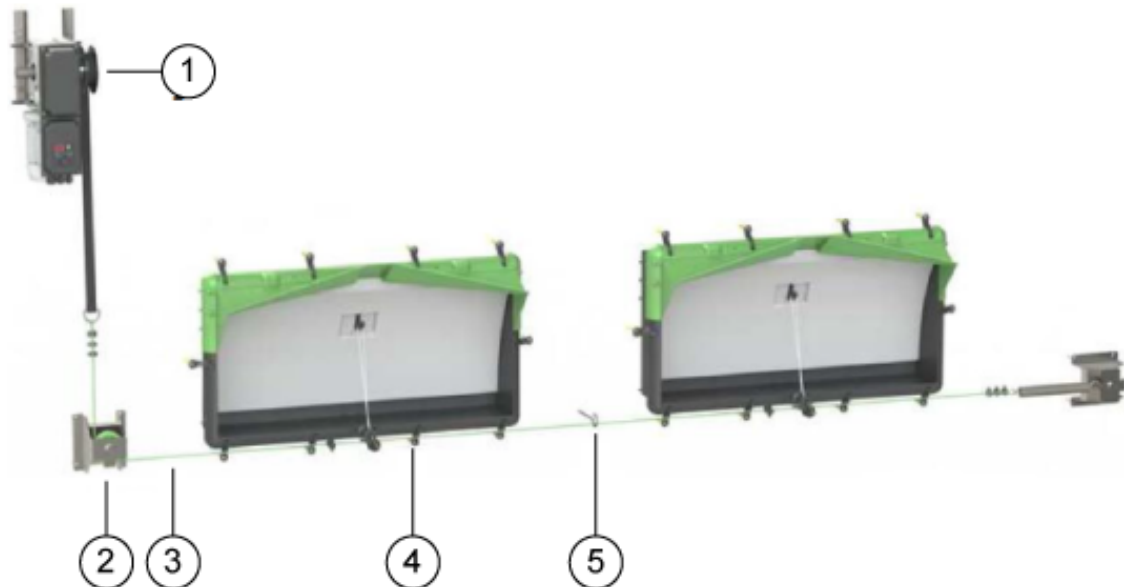


Nbr	Article number	Description
1		Drive motor*
2	3859136	Pully set Fantura >-35°C horizontal
3	32459022.01 32459022.02	Main cable 75m Main cable 100m
4	4409170	Fantura inlet >-35.0°C
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Example 3

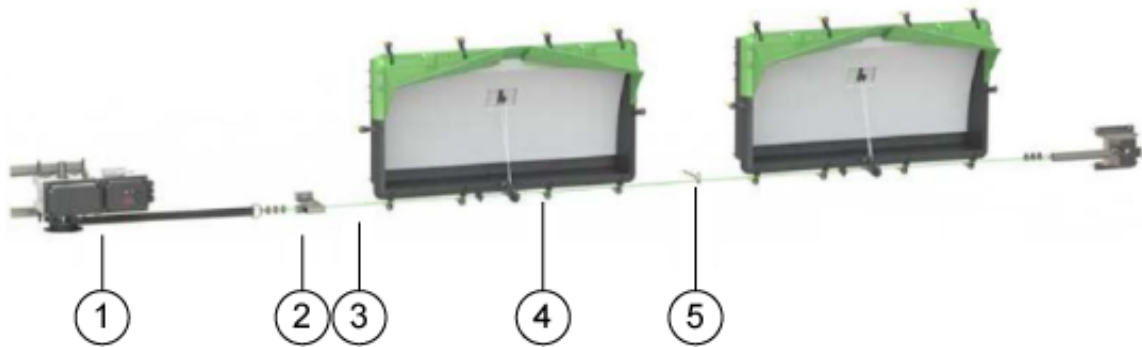


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Example 4



Nbr	Article number	Description
1		Drive motor*
2	3859136	Pully set Fantura >-35°C horizontal
3	32459022.01 32459022.02	Main cable 75m Main cable 100m
4	4409165	Fantura inlet >-5.0°C
5	2420274	Screw eye Fantura >-35°C

*Selection drive motor

Nbr	Article number	Description
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2	34331015 34331016	iM.125 200-230V 50 HZ 1-PH iM.125 200-230V 60 HZ 1-PH
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4	5450105	Belt drum D 55mm iM.125 + belt