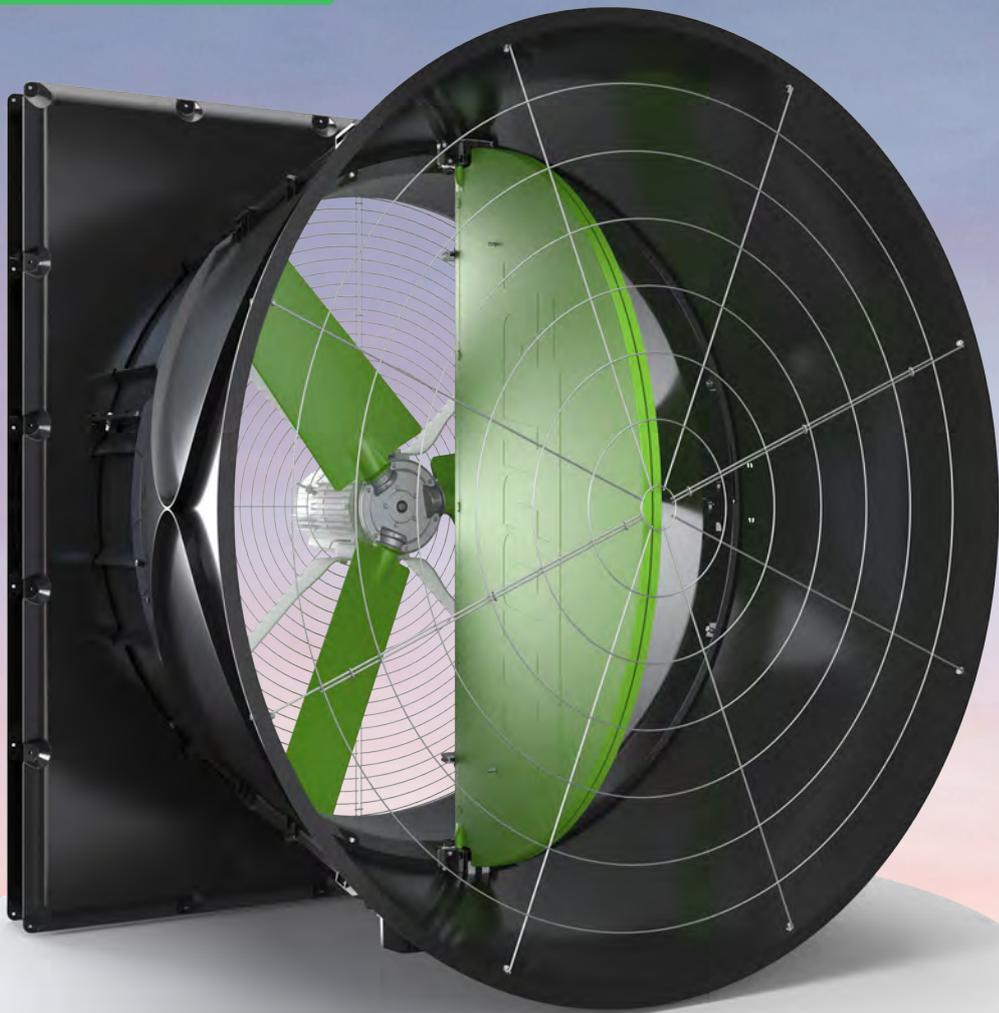


# Durable ventilation

Powerful, intelligent  
and energy-efficient



**FANCOM**<sup>®</sup>

forward thinking

# Facts & Figures

45+

Years of experience

1600+

1600+ poultry houses annually

210+

Global network of distributors and partners

4900+

Sections for pigs annually

700

Growing rooms for mushrooms annually

1

Number one in farm automation



Proven Dutch quality:

Fancom is active in 4 market segment in 63 countries.

All our products are designed and developed in the Netherlands.



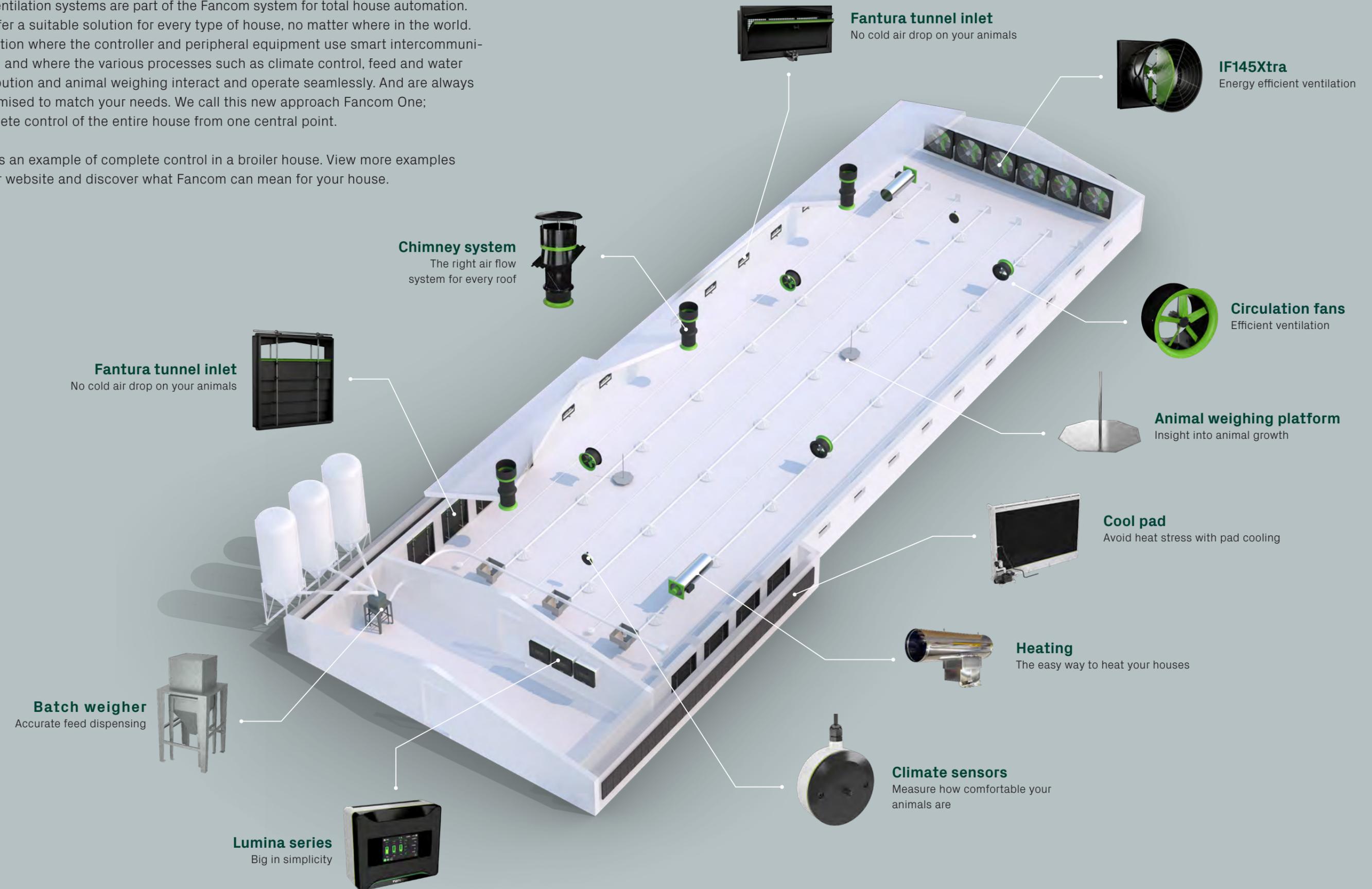
The creative and development processes at Fancom are entirely focussed on achieving superior conditions for pig and poultry producers. Creating the right conditions starts in the house.

FANCOM®

# Total house automation

Our ventilation systems are part of the Fancom system for total house automation. We offer a suitable solution for every type of house, no matter where in the world. A solution where the controller and peripheral equipment use smart intercommunication and where the various processes such as climate control, feed and water distribution and animal weighing interact and operate seamlessly. And are always customised to match your needs. We call this new approach Fancom One; complete control of the entire house from one central point.

Here is an example of complete control in a broiler house. View more examples on our website and discover what Fancom can mean for your house.



# Optimal animal performance

Creating superior conditions in livestock houses starts by regulating an optimal climate in the house, regardless of the outdoor conditions. Your animals are your living capital and the environment they live in influences their development and welfare. Balanced and correct ventilation is beneficial to the growth and health of your animals and ensures the best possible performance. Extreme weather conditions and sharply fluctuating day and night temperatures have no influence on the house climate. You, however, can exert an influence on a sustainable and profitable production process. You are in control, not the conditions.

## Ventilation costs under control

It's not just the technical performance of the animals that determines the bottom-line profitability of your farm. To realise the best returns, you also want to control the costs of the ventilation system. The total costs are more than the investment alone. Energy consumption, maintenance costs and service life are all important aspects you should factor in when buying your ventilation system. The fan capacity determines how many fans you need. So don't compare the fans purely on the price, but take the m<sup>3</sup>/hour into account. And you also want the security of absolutely reliable climate equipment. Selecting the right fans is an important choice in this respect. Because you know better than none the impact the effects of ventilation have on the house climate and your operating results at the end of a cycle.

## Durable

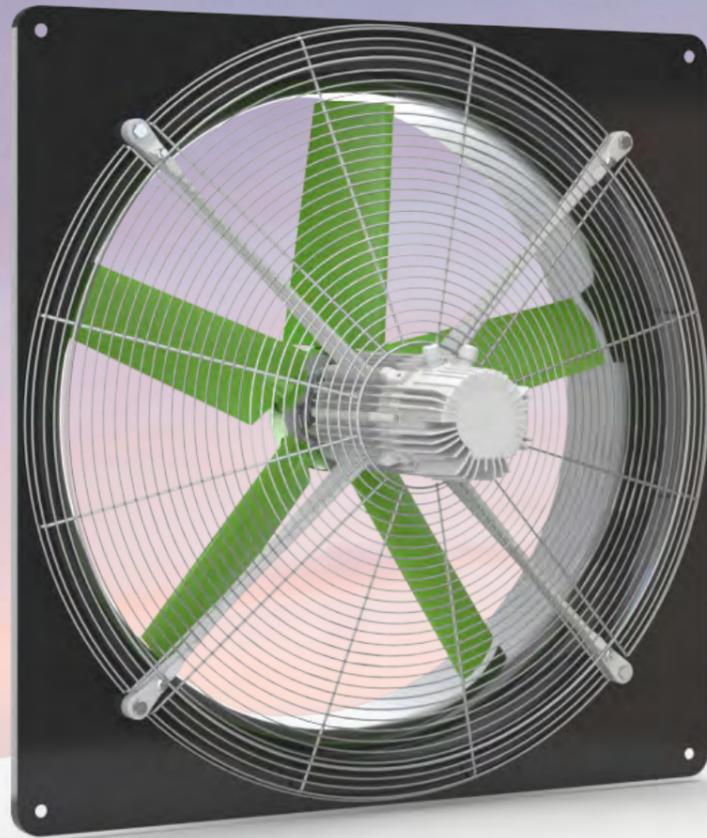
A pig or poultry house is "enemy territory" for most materials. Aggressive substances in agricultural buildings place a considerable onslaught on fans. With all the related destructive consequences. However, with a Fancor fan in the house there's no need to worry. Fancor fans feature an aluminium motor housing with a high IP66 classification, plastic or coated steel edges and synthetic fan blades. Corrosive and caustic substances have absolutely no chance. This allows us to guarantee a long and malfunction free operating life.

Your animals benefit from a healthy climate in the house under all circumstances.



# Fancom fans

Powerful, intelligent  
and energy-efficient



Fancom supplies a range of fans especially designed for use in animal houses. The fans are available in diameters from 35 to 145 cm, as a wall-mounted fan or built into a chimney module. We have a suitable fan for every house.

## Energy efficient

A Fancom fan combines a high air output with low energy consumption and low noise production. In addition to the wide range of standard fans, we offer a range of extremely energy efficient fans. The I-fan Xtra has a special energy efficient motor that delivers high efficiency and reduces energy losses. The low energy consumption has a positive impact on your costs as well as increasing the sustainability of the fan. The low energy consumption and excellent controllability also reduce motor heat, which extends the fan's service life.

## Outstanding adjustability

All our fans can be controlled accurately. The internal electronics in our I-fan regulate the fan RPM. This is continually monitored and automatically corrected by the motor. The extremely stable motor can be regulated to levels as low as even 25%, depending on the counter-pressures. This motor will still deliver a guaranteed air flow and automatically compensates for wind influences, for example. The result is an extremely constant air flow without any negative wind influences.

## Virtually silent

Noise production has become an increasingly important factor during the development of a fan. A lower RPM on a number of fans and the right choice of fan blades can contribute to significantly lower noise production.



### Complete fan

The complete fans from Fancom are incredibly easy to mount in or on the wall. The fans in the 35-56 cm and 80 cm series are supplied with a strong plastic edge. The larger fans with diameters of 63 and 92 cm are mounted in a strong steel edge. The coating on the edges also prevents corrosion with these fan versions.



### Modular fan

To mount your fan under a chimney, Fancom supplies the fan in a robust, dimensionally stable synthetic module that is part of a complete package of chimney systems that supply air and are suitable for all possible types of roof. Our chimney system has a unique, quick mounting system for rapid and easy installation.



### Circulation fans

Circulation fans are often used to mix the air in the house and create uniform climate conditions. These circulation fans can also increase air movement at animal level to create drier litter. Our circulation fans are supplied in a robust, dimensionally stable synthetic module and are available in diameters of 40-56 cm. The technical specifications of our circulation fans are similar to the other models.



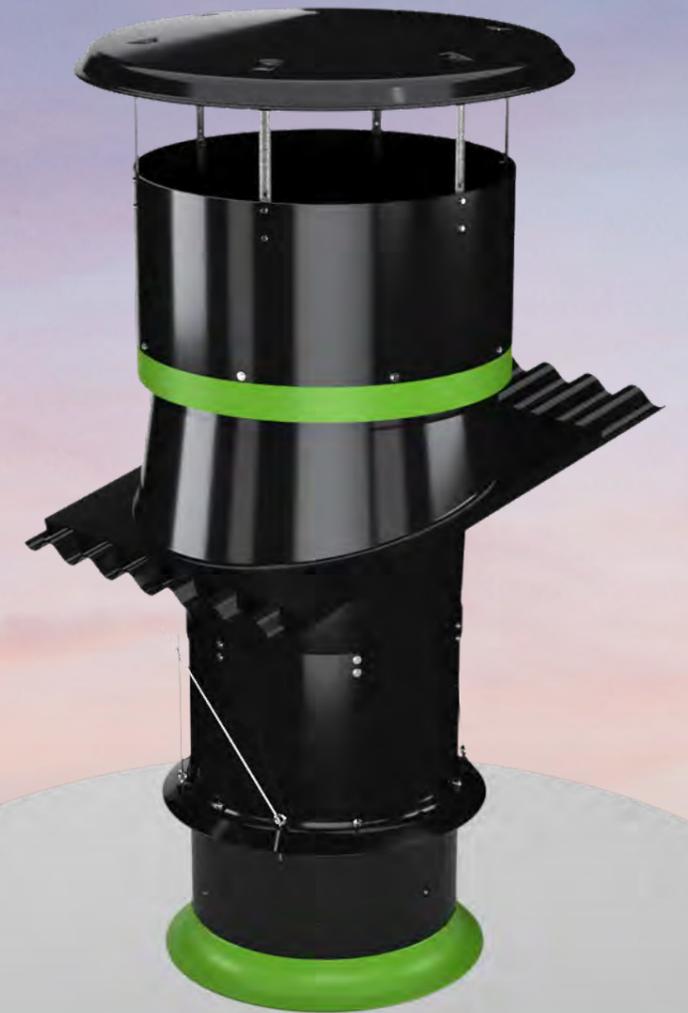
### High pressure fan

Fancom has developed a number of high pressure fans with diameters of 50, 63, 80 and 92 cm, especially for central exhaust systems and other installations that use higher counter-pressures. These fans are characterised by a very high air displacement. They also feature very low energy consumption and noise production.

# Fancom chimney systems

The right air flow system for every roof

Fancom supplies a comprehensive package of chimney systems for the air flow in your house. They can be mounted on all possible types of roofs used in the pig and poultry sector and are suitable for air exhaust and air inlet systems. This is a durable and maintenance free system, made from dimensionally stable polyethylene. An insulated chimney version is also available to prevent condensation in air inlet systems and for application in situations that use ceiling ventilation. Our chimney system has a unique, quick mounting system for rapid and easy installation.





### Complete package

Fancom supplies a comprehensive package of accessories to complete your chimney system. The accessories also all feature the handy quick mounting system.

- Extension duct available as standard in lengths of 0.5 and 1 metre
- The air entry cone prevents any fan capacity loss
- The manually operated diaphragm damper closes the opening in the chimneys to reduce wind sensitivity
- The cover prevents rainfall into the chimney and greatly reduces the incidence of light through the chimney
- Using a backdraught shutter increases the airtightness of the house and contributes to a stable under pressure. The backdraught shutter closes off the chimney and prevents air from flowing back into it when the fan is not active.



# Accurate ventilation with air flow measurement

There is only one way to ensure there is sufficient ventilation in all conditions: measure it! This can be done with a built-in RPM feedback sensor in your fans. The airflow can also be constantly and accurately measured using an airflow transmitter. This is a rotating transmitter that is placed in a round chimney. As air flows through the chimney, the transmitter starts to rotate. The RPM of the airflow transmitter is indicative of how much air is flowing through the chimney. The Fancom climate controllers use this airflow measurement to precisely control the ventilation level. Never too much, or too little. An energy-saving solution that also saves on heating costs.



# I-Fan 145 Xtra simply the best fan available

Fancom's latest energy efficient fan is the largest in our I-fan Xtra fan series and it can be safely labelled a 'super fan'. The large I-fan145 Xtra excels in all the traits essential for fans in livestock housing; a virtually indestructible fan with exceptionally high performances and minimum energy consumption. Add to that its outstanding controllability and comprehensive safety features and you have simply the best fan currently available. And the perfect ventilation solution for your pig or poultry house.

## Powerhouse that uses your precious energy efficiently

The I-fan145 Xtra is a direct driven fan. Intelligent EC technology is used to ensure that the fan always runs in the optimal position. The I-fan145 Xtra also produces practically no heat and therefore loses less energy. This technology, combined with the aerodynamic design, makes energy savings of up to 85% feasible compared with traditional fans.

The choice of the best fan for your situation is easy, there is one type of motor you can use and which suits all kinds of conditions. This is possible thanks to the extremely accurate fan control (continuously variable from 54 to 610 RPM) without compromising on stability and fan capacity. This fan also performs extremely well in the minimum ventilation range.

- For optimal energy savings, use the fan up to 75% of its capacity up to 46,500 m<sup>3</sup>/h (at 20 Pa)
- When saving energy is less important, use the full 100% capacity and the fan will deliver a top performance of 61,500 m<sup>3</sup>/h (at 20 Pa)

## Fan 145 on/off

The FAN 145 is a direct driven on/off tunnel fan with a shut-off inlet. The direct drive increases the sustainability of the FAN 145, and reduces maintenance. The aerodynamic design improves the air flow so the FAN 145 delivers a top performance even in situations with high counter-pressures. As a result, the FAN145 can be considered one of the most efficient direct drive, high capacity tunnel fans available. A combination of the adjustable I-fan 145Xtra and the I-fan 145 on/off version allows perfect tunnel ventilation to be created with a gradual increase in the ventilation capacity. This enables the ideal climate conditions to be achieved during every phase of the life of animals in the pig and poultry production sector.



# Intelligent control computer

The intelligent control functionality of the Lumina climate computers helps you maximise the benefits of the unique features of the Fancom fans. The controller automatically optimises the fan position to ensure a sufficient supply of fresh air for all animals in the house in all conditions with minimum energy consumption.

## Smart control for extra energy savings

This controller cleverly utilises the fact that I-fans are far more efficient at a lower RPM. For instance, a fan operating at 100% RPM uses up to four times more energy than a fan operating at 50%. So for efficient use it is important to prevent the fans from running at full capacity as much as possible. This is achieved by activating several fans operating at the optimal RPM if there is an increasing ventilation demand. Your installer will input the most efficient combination of available fans in the combi-table in your Fancom climate computer.

## 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, orange 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 Lumina climate controllers feature a number of unique controls that create the optimal climate under all conditions. Extreme weather conditions and sharply fluctuating day and night temperatures do not influence the house climate.

## A few examples:

- 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



# Superior conditions in the house

The creative and development processes at Fancom are entirely focussed on achieving superior conditions for pig and poultry producers. And for mushroom growers. Creating the right conditions starts in the house. That is why we firmly believe in the value of total house automation. With smart house technology that manages and controls all the processes in the house from a central location. Ventilation and heating, feed and water distribution, lighting, animal weighing and egg counting - all controlled and monitored perfectly.

You can create insight by collecting and linking as much data as possible from these automated processes. Insight into animal health and behaviour, insight into feed and consumption, insight into growth and development. Valuable information that enables more efficient and profitable production in a way that respects animals and the environment.

In our opinion, there are no limits to what complete farm automation can do. Whatever our customers need to know - we can automate and measure it. And the more informed they are, the better control of animal welfare and results. Creating the right conditions for healthy and future-proof farming. Our ambition together with our customers is to ensure that whatever happens inside the house has an impact outside.

We call the driver behind creating an impact Forward Thinking - the way of thinking, acting and working that

typifies Fancom. We set the bar high for ourselves and the people around us based on the belief that things can always get better. And must. Our automated processes facilitate control inside the house. Outside the house, making a meaningful impact requires a thorough understanding of the challenges facing our customers. They operate in a sector that has to balance the interests and tensions of nature, technology, data, politics and social sentiment. Against the background of this dynamic, we challenge ourselves to develop ever-smarter systems. We are at the forefront of development and innovation. Yesterday, we provided the solutions to today's challenges. Today, we are working on the solutions to tomorrow's challenges. Always anticipating developments. This is precisely what we mean by Forward Thinking.

**By combining the power of innovation, leadership, empathy and partnership, Fancom guarantees solutions that benefit operational management, people, animals and the environment. Today and tomorrow.**



# Fancom ventilation systems all over the world

Countless farmers all over the world benefit from optimal conditions in their houses by using one of our feeding systems.



**Spain**  
Wall fans



**The Netherlands**  
Modular fans



**Australia**  
IF145Extra



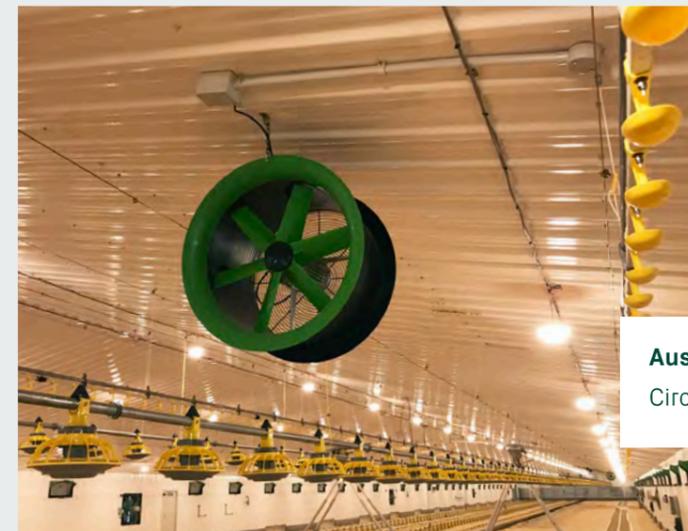
**The Netherlands**  
Ceiling fan



**UK**  
Modular fans



**Australia**  
Wall fans



**Australia**  
Circulation fan



## Fan 1 phase

Fan 1 Phase	Diameter	Revolutions	Voltage	Motor current (50Pa)	Power (50Pa)	Noise level 0Pa 2m (7m)	Airflow in m3/h Pressure in Pa (Pascal)										Airflow in cfm Pressure in in.H2O										
50Hz	cm / inch	RPM	Vac	A	W	dB(A)	0	30	50	80	100	150	200	250	300	max	0.0	0.12	0.2	0.32	0.4	0.6	0.8	1.0	1.2	max	
1435	35 / 14	1404	200-240	0.96	211	61 (50)	3940	3580	3250							2660 / 78	2319	2107	1913								1566 / 0.31
1440	40 / 16	1347	200-240	1.19	273	64 (53)	5040	4630	4250	3580						3300 / 92	2966	2725	2501	2107							1942 / 0.37
1445	45 / 18	1326	200-240	1.6	223	65 (54)	6690	6140	5760	5050	4400					4310 / 102	3938	3614	3390	2972	2590						2537 / 0.41
1450	50 / 20	1317	200-240	2.08	474	66 (55)	8550	7800	7300	6460	5780					5710 / 102	5032	4591	4297	3802	3402						3361 / 0.41
1450P	50 / 20	1381	200-240	2.99	720	69 (58)	9720	9250	8970	8450	7950					6900 / 128	5721	5444	5280	4973	4679						4061 / 0.51
1456	56 / 22	1366	200-240	3.16	741	70 (59)	12060	11260	10830	10040	9250					8520 / 113	7098	6627	6374	5909	5444						5015 / 0.45
1463	63 / 25	1381	200-240	3.1	721	68 (57)	14600	13200	123800	10730	9070					8980 / 101	8593	7769	72866	6315	5338						5285 / 0.41
1680	80 / 31	903	200-240	4.64	1091	69 (58)	20750	19050	17820	15760	14160					13020 / 113	12213	11212	10488	9276	8334						7663 / 0.45
1692	92 / 36	905	200-240	4.54	1058	68 (57)	24400	21840	19940	16530	13767					13340 / 103	14361	12855	11736	9729	8103						7852 / 0.41
<b>60Hz</b>																											
1450	50 / 20	1695	200-240	2.64	623	68 (57)	8510	8000	7710	7260	6890	5410				5060 / 158	5009	4709	4538	4273	4055	3184					2978 / 0.63
1456	56 / 22	1667	200-240	3.06	707	69 (58)	10672	10090	9690	9130	8730	7330				5420 / 192	6281	5939	5703	5374	5138	4314					3190 / 0.77
1656	56 / 22	1132	200-240	2.42	561	65 (54)	10260	9560	9030	8020	7110					6620 / 109	6039	5627	5315	4720	4185						3896 / 0.44
1463	63 / 25	1672	200-240	3.1	716	68 (57)	13870	12760	12100	11040	10190					8950 / 123	8164	7510	7122	6498	5998						5268 / 0.49
1680	80 / 31	1067	200-240	4.64	1166	68 (57)	20625	19180	18260	16775	15600					10678 / 148	12139	11289	10747	9873	9182						6285 / 0.59

All 1 phase fans are trafo and electronic controllable.

## Fan 3 phase

Fan 3 Phase	Diameter	Revolutions	Voltage	Motor current (50Pa)	Power (50Pa)	Noise level 0Pa 2m (7m)	Airflow in m3/h Pressure in Pa (Pascal)										Airflow in cfm Pressure in in.H2O										
50Hz	cm / inch	RPM	Vac	A	W	dB(A)	0	30	50	80	100	150	200	250	300	max	0.0	0.12	0.2	0.32	0.4	0.6	0.8	1.0	1.2	max	
3435	35 / 14	1426	400-415	0.34	157	61 (50)	3710	3400	3140	2640						2520 / 86	2184	2001	1848	1554							1566 / 0.31
3440	40 / 16	1376	400-415	0.43	227	64 (53)	5120	4750	4370	3750						3430 / 96	3014	2796	2572	2207							1942 / 0.37
3445	45 / 18	1297	400-415	0.55	312	65 (54)	6540	5910	5470	4670						4020 / 99	3849	3478	3220	2749							2537 / 0.41
3450	50 / 20	1304	400-415	0.72	414	66(55)	8240	7530	7010	6120	5440					5240 / 105	4850	4432	4126	3602	3202						3361 / 0.41
3456	56 / 22	1364	400-415	1.17	657	70 (59)	11830	10920	10260	9220	8490					7700 / 120	6963	6427	6039	5427	4997						4061 / 0.51
3656	56 / 22	936	400-415	1.05	384	65 (54)	10190	9080	8020							6690 / 65	5998	5344	4720								5015 / 0.45
3463P	63 / 25	1439	400-415	2.75	1351	74 (63)	17530	16740	16270	15590	15150	13930	12370	10240		10240 / 250	10318	9853	9576	9176	8917	8199	7281	6027			5285 / 0.41
3663	63 / 25	931	400-415	1.38	687	67 (56)	14180	12920	12060	10350						9000 / 97	8346	7604	7098	6092							7663 / 0.45
3680	92 / 36	941	400-415	2.03	1047	70 (59)	22220	20555	19380	17390	15910					14070 / 122	13078	12098	11407	10235	9364						7852 / 0.41
3480P	80 / 31	1429	400-415	4.58	2268	77 (66)	28650	27582	26870	26300	25290	23580	21225	18655		17440 / 268	16863	16234	15815	15480	14885	13879	12493	10980			
3480D	80 / 31	1436	400-415	4.26	1981	69 (58)	21610	21130	20810	20310	19990	19050	17920	16495	14770	11050 / 380	12719	12437	12248	11954	11766	11212	10547	9709	8693		2978 / 0.63
3692	92 / 36	936	400-415	2.16	1033	68 (57)	24870	22570	20840	17820	15470					14110 / 110	14638	13284	12266	10488	9105						3190 / 0.77
3692P	92 / 36	929	400-415	3.64	1850	71 (60)	28080	26600	25560	23950	22810	17820				15200 / 167	16527	15656	15044	14096	13425	10488					3896 / 0.44
145	145 / 57	722	400-415	4.8	2144	78 (67)	64500	58900	54800	48600	44100					35400 / 130	37963	34667	32254	28605	25956						5268 / 0.49
<b>60Hz</b>																											
3450	50 / 20	1617	400-415	0.63	358	67 (56)	7660	7160	6810	6120	5420					4130 / 126	4509	4214	4008	3602	3190						
3456	56 / 22	1649	400-415	1	558	69 (58)	10160	9550	9180	8600	8190	6720				5910 / 170	5980	5621	5403	5062	4820	3955					
3480P	80 / 31	1698	400-415	4.32	2340	74 (63)	26020	25294	24810	24090	23610	22310	20820	19050	16870	15590 / 326	15315	14887	14603	14179	13896	13131	12254	11212	9929		
145	145 / 57	859	400-415	5	2541	81 (70)	65100	60100	56800	52000	48700					40200 / 140	38316	35374	33431	30606	28664						

All 3 phase fans are frequency controllable.

# Forward thinking

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