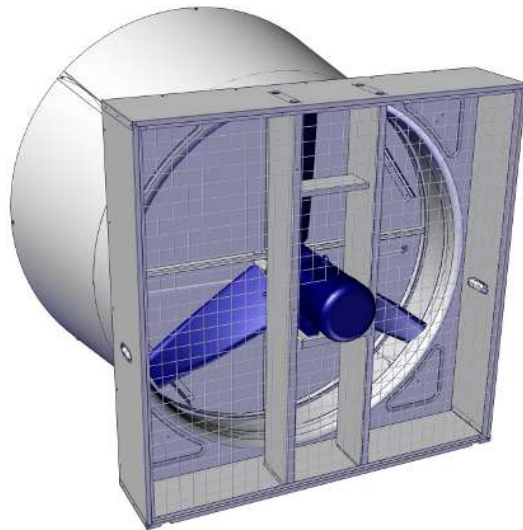


GF 50 Wall Fans

Technical Info



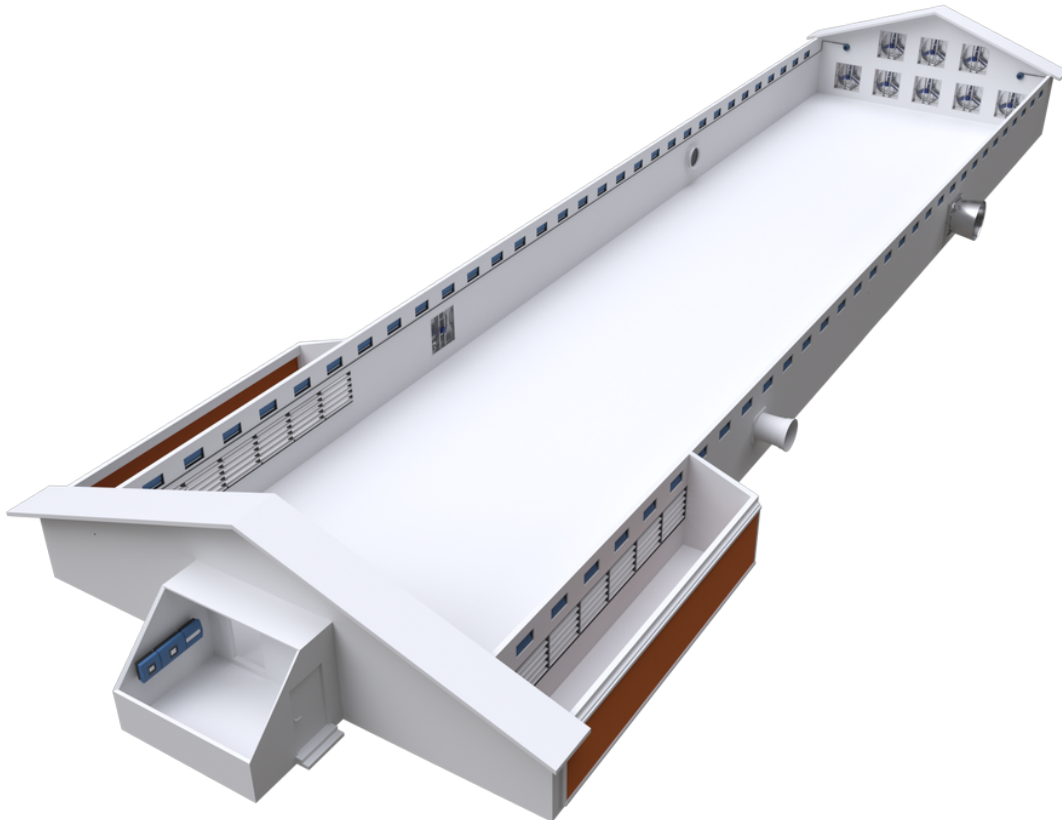
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1 Product description

GF 50 ON/OFF AIR is a wall-mounted galvanized wall fan with a cone and mechanical butterfly flap.

GF 50 ON/OFF AIR is suitable for all types of poultry production even in areas where cold draft and heat loss can be a challenge.

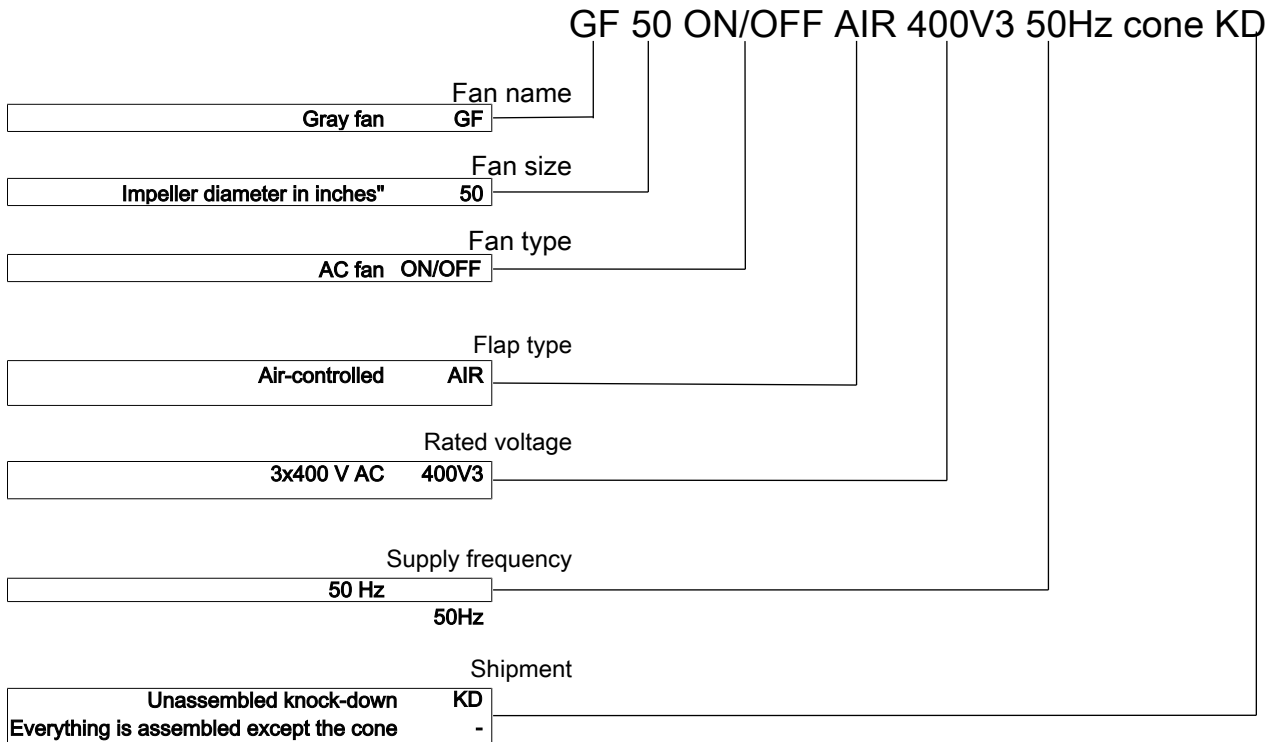
The wall fan has a 1.5 kW directly driven AC motor, which makes it a high-performance and highly energy-efficient wall fan.



2 Product survey

2.1 GF 50 wall fan

2.2 Type key



435567F GF 50 ON/ OFF AIR 400V3 50Hz cone

435566F GF 50 ON/OFF AIR 400V3 50Hz cone KD

Motor control method – ON/OFF.

Shutter control method – ON/OFF air-controlled.

Complete fan type – ON/OFF (MultiStep unit).

AC motor 3x400 V kW 1.5.

2 m motor cable.

The cone must be assembled before installation.

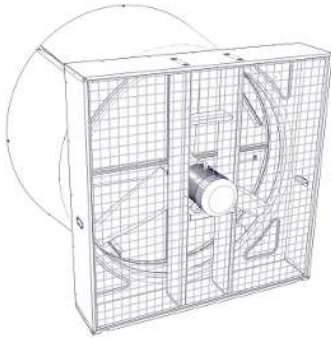
It is supplied with mounting parts.

435566F is supplied as knock-down (KD), i.e., the wall fan must be assembled before installation.

It should not be used for negative pressure higher than 80 Pa.

F item numbers are produced in Asia, which can be a logistic advantage.

ErP 2015 approved.

**435571F GF 50 ON/ OFF AIR 400V3 60Hz cone****435570F GF 50 ON/OFF AIR 400V3 60Hz cone KD**

Motor control method – ON/OFF.

Shutter control method – ON/OFF air-controlled.

Complete fan type – ON/OFF (MultiStep unit).

AC motor 3x400 V kW 1.3.

2 m motor cable.

The cone must be assembled before installation.

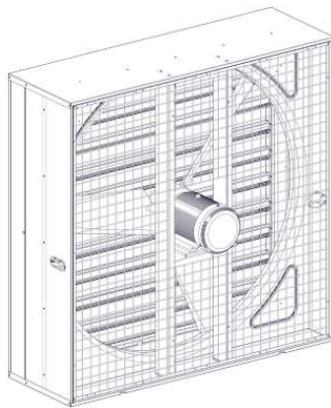
It is supplied with mounting parts.

435570F is supplied as knock-down (KD), i.e., the wall fan must be assembled before installation.

It should not be used for negative pressure higher than 80 Pa.

F item numbers are produced in Asia, which can be a logistic advantage.

ErP 2015 approved.

**435565F GF 50 ON/OFF AIR 400V3 50Hz****435564F GF 50 ON/OFF AIR 400V3 50Hz KD**

Motor control method – ON/OFF.

Shutter control method – ON/OFF air-controlled.

Complete fan type – ON/OFF (MultiStep unit).

AC motor 3x400 V kW 1.5.

2 m motor cable.

It is supplied with mounting parts.

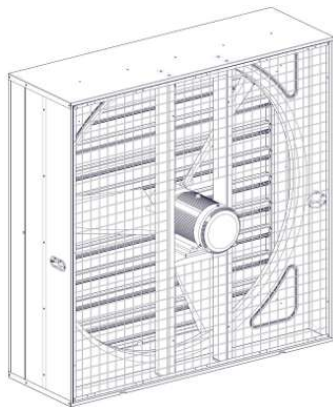
435564F is supplied as knock-down (KD), i.e., the wall fan must be assembled before installation.

It should not be used for negative pressure higher than 80 Pa.

F item numbers are produced in Asia, which can be a logistic advantage.

Not CE marked as the minimum efficiency target of Ecodesign is not met (ErP 2015).

The fan does however fulfill the 2006/42/EC Machinery Directive.



435569F GF 50 ON/OFF AIR 400V3 60Hz

435568F GF 50 ON/OFF AIR 400V3 60Hz KD

Motor control method – ON/OFF.

Shutter control method – ON/OFF air-controlled.

Complete fan type – ON/OFF (MultiStep unit).

AC motor 3x400 V kW 1.3.

2 m motor cable.

It is supplied with mounting parts.

435568F is supplied as knock-down (KD), i.e., the wall fan must be assembled before installation.

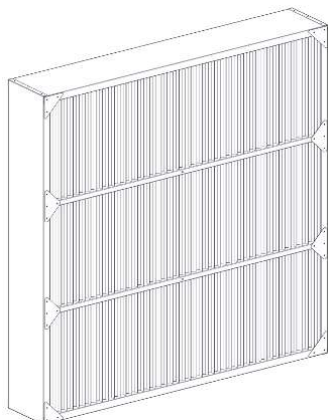
It should not be used for negative pressure higher than 80 Pa.

F item numbers are produced in Asia, which can be a logistic advantage.

Not CE marked as the minimum efficiency target of Ecodesign is not met (ErP 2015).

The fan does however fulfill the 2006/42/EC Machinery Directive.

2.3 Accessories



435572F GF 50 light trap brown out

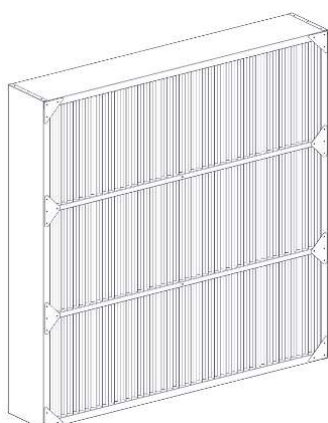
Use if dimming is required in the livestock house.

Supplied with brackets.

Light reduction factor 9.000:1.

The light trap reduces the air output of the fan by approx. 9 %.

The light trap frame (435574F) must be ordered separately.



435573F GF 50 light trap black out

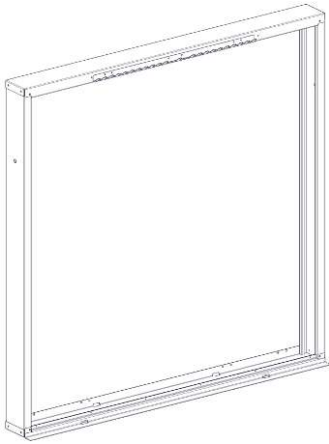
Used if a large amount of dimming is required in the livestock house.

Supplied with brackets.

Light reduction factor 9.000.000:1.

The light trap reduces the air output of the fan by approx. 22 %.

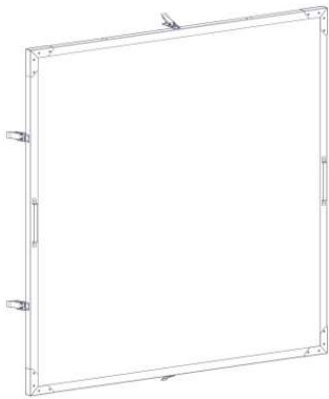
The light trap frame (435574F) must be ordered separately.



435574F GF 50 frame for light trap

Is used when mounting the GF 50 light trap.

1 per light trap.



435575F GF 50 insulation plate

The plate prevents draft and heat loss during cold periods when the fan is not in use.

Supplied with mounting parts.

1 per wall fan.

3 Technical data

3.1 GF 50 ON/OFF AIR 3x400 V including cone

		435566F/435567F GF 50 ON/OFF AIR 50 HZ	435570F/435571F GF 50 ON/OFF AIR 60 HZ
Electrical			
Rated voltage	V AC	400	
Operating voltage	V AC	342 – 418	
Frequency	Hz	50	60
Max. current consumption At 400 V AC power supply	A	4.2	5.0
Max. input power (P1)	W	1763	1750
Max. power (P2) shaft	W	1500	1300
Efficiency motor [η]	%	80.5	73
CosPhi [Φ]	Factor	0.70	0.52
Thermal cutout (PTO)		-	
Mechanical			
Cable length	m	2	
Impeller diameter	mm	1263	
Number of fan blades	pcs.	3	
Fan output			
Revolutions per minute	RPM	720	670
Air output at 0 Pa	m ³ /h	43700	42200
Air output at -10 Pa	m ³ /h	42100	40700
Air output at -20 Pa	m ³ /h	40600	39300
Air output at -30 Pa	m ³ /h	39200	37900
Air output at -40 Pa	m ³ /h	37500	36200
Air output at -50 Pa	m ³ /h	35900	34300
Air output at -60 Pa	m ³ /h	34100	32500
Air output at -70 Pa	m ³ /h	32300	29700
Air output at -80 Pa	m ³ /h	29400	26200
Power consumption at -10 Pa	W	1545	1524
Specific output at -10 Pa	m ³ /kWh	27200	26700
Specific energy at -10 Pa	Watt/1000 m ³ /h	37	
Testing body		SKOV A/S	
Environment			
Temperature, operation	°C	÷ 25 to + 40	
Temperature, storage	°C	÷ 40 to + 70	
Ambient humidity, operation	% RH	10 – 95	
Protection class	IP	Fan motor: IP 55	
Storage (fan motor)		Indoors and dry	
Fan noise, outside (2 m, 45 degrees)	dB (A)	77	76

3.1.1 ErP/Ecodesign GF 50 ON/OFF AIR 3x400 V with cone

Fan type		50 Hz	60 Hz
Ecodesign		ErP 2015 (40)	
Efficiency classification	N	44.4	41.3
Efficiency (η)	%	39.5	36.6
Measurement setup		A	
Fan efficiency		Static	
VSD required		No	
Year of manufacture		2023	
Name of manufacturer		Qoma	
Item number		435566F/435567F	435570F/435571F
Motor power input	W	1.7	1.8
Flow rate	m ³ /s	7.63	6.76
Optimum pressure	Pa	86	100
Revolutions per minute	RPM	708	695
Pressure conditions		1	
Recycling/Disposal		The product is designed to be recycled and customers will be able to deliver their used products to their local collection points/recycling centers in accordance with local instructions	
Environmental impact		-	

3.2 GF 50 ON/OFF AIR 3x400 V without cone

		435564F/435565F GF 50 ON/OFF AIR 50 HZ	435568F/435569F GF 50 ON/OFF AIR 60 HZ
Electrical			
Rated voltage	V AC	400	
Operating voltage	V AC	342 – 418	
Frequency	Hz	50	60
Max. current consumption At 400 V AC power supply	A	4.2	5.0
Max. input power (P1)	W	1824	1750
Max. power (P2) shaft	W	1500	1300
Efficiency motor [η]	%	80.5	73
CosPhi [Φ]	Factor	0.70	0.52
Thermal cutout (PTO)		-	
Mechanical			
Cable length	m	2	
Impeller diameter	mm	1263	
Number of fan blades	pcs.	3	
Fan output			
Revolutions per minute	RPM	720	670
Air output at 0 Pa	m ³ /h	40800	39400
Air output at -10 Pa	m ³ /h	39400	38100
Air output at -20 Pa	m ³ /h	37900	36500
Air output at -30 Pa	m ³ /h	36200	35000
Air output at -40 Pa	m ³ /h	34600	33200
Air output at -50 Pa	m ³ /h	32800	31500
Air output at -60 Pa	m ³ /h	30900	29500
Air output at -70 Pa	m ³ /h	28900	27600
Air output at -80 Pa	m ³ /h	26900	25500
Power consumption at -10 Pa	W	1687	1616
Specific output at -10 Pa	m ³ /kWh	39400	23600
Specific energy at -10 Pa	Watt/1000 m ³ /h	43	42
Testing body		SKOV A/S	
Environment			
Temperature, operation	°C	÷ 25 to + 40	
Temperature, storage	°C	÷ 40 to + 70	
Ambient humidity, operation	% RH	10 – 95	
Protection class	IP	Fan motor: IP 55	
Storage (fan motor)		Indoors and dry	
Fan noise, outside (2 m, 45 degrees)	dB (A)	75	76

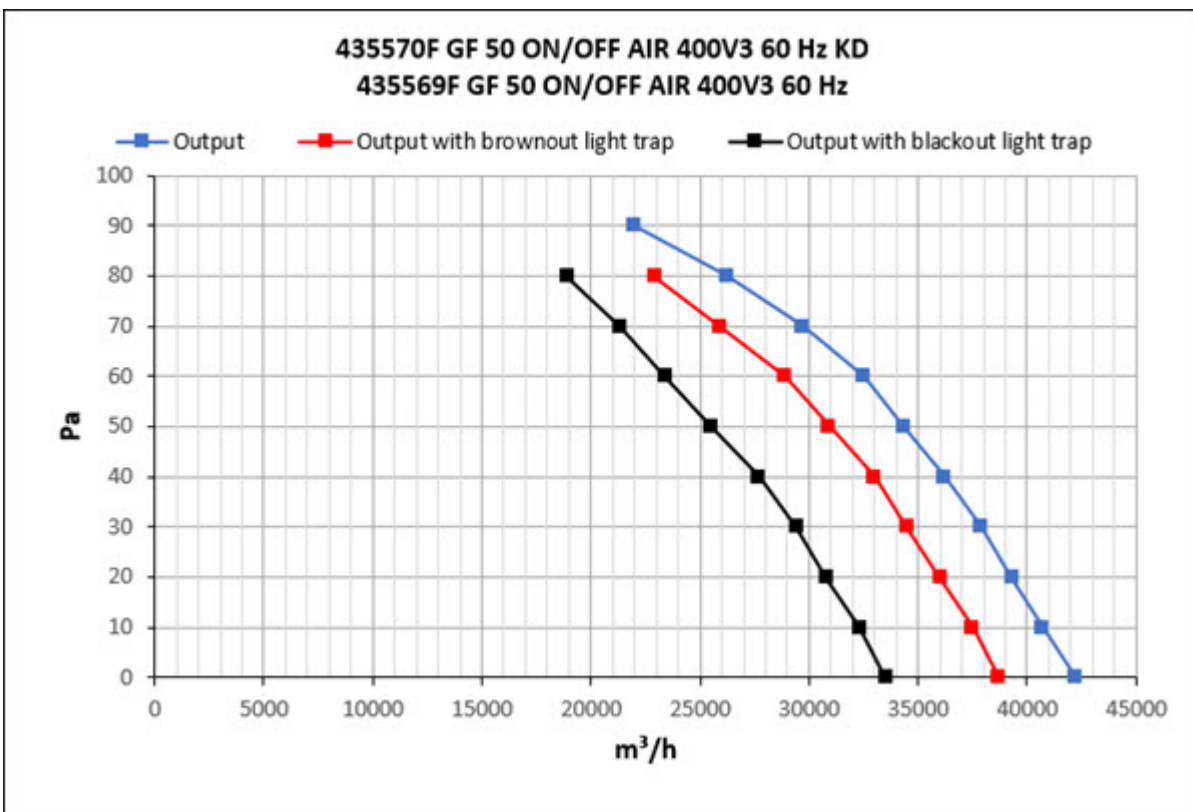
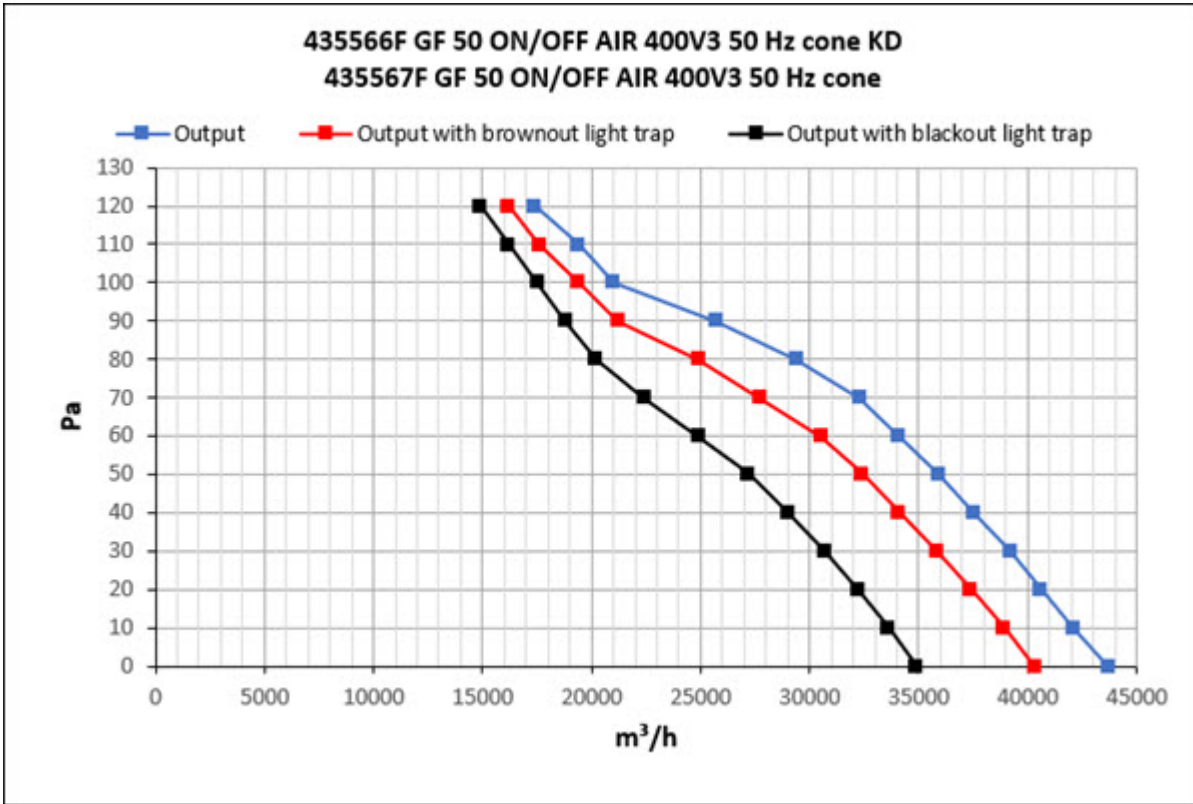
3.3 Number of wall fans in a 40' HC container

Product	Assembled unit	Knock-down unit
GF 50 ON/OFF AIR with cone	40	160
GF 50 ON/OFF AIR without cone	25	160

3.4 Performance diagrams

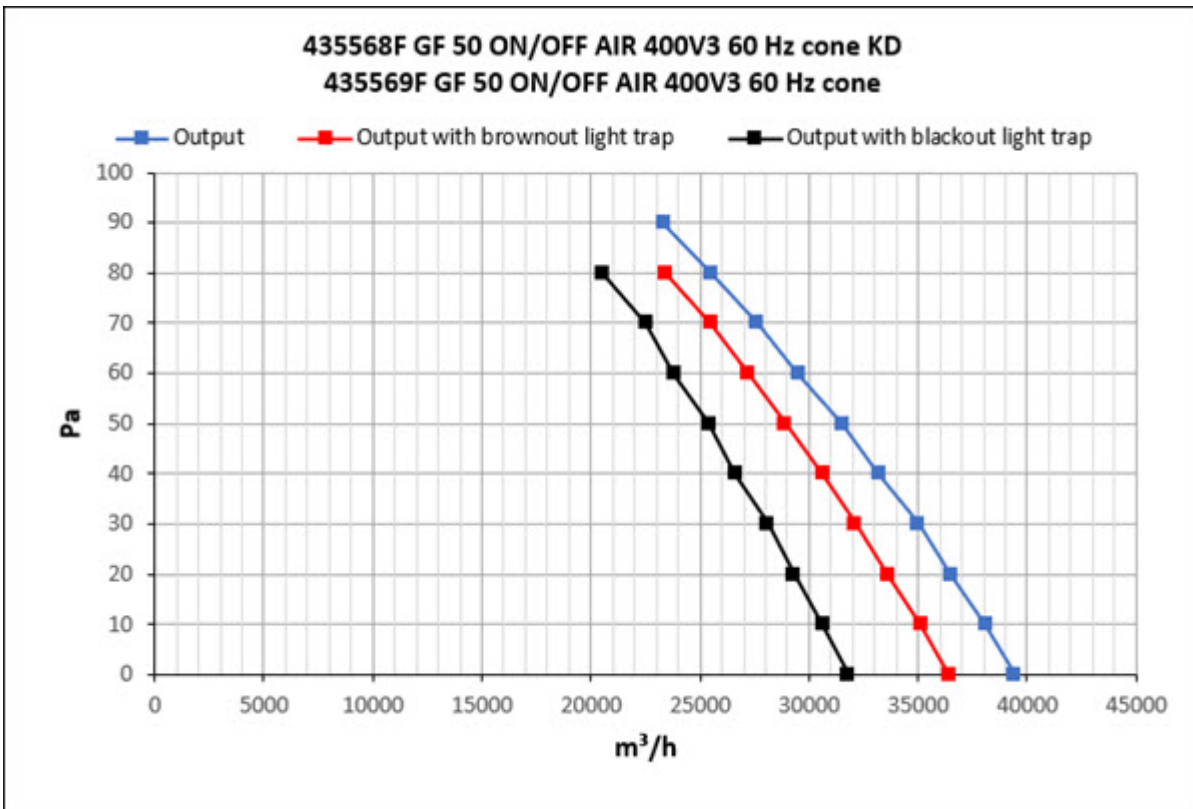
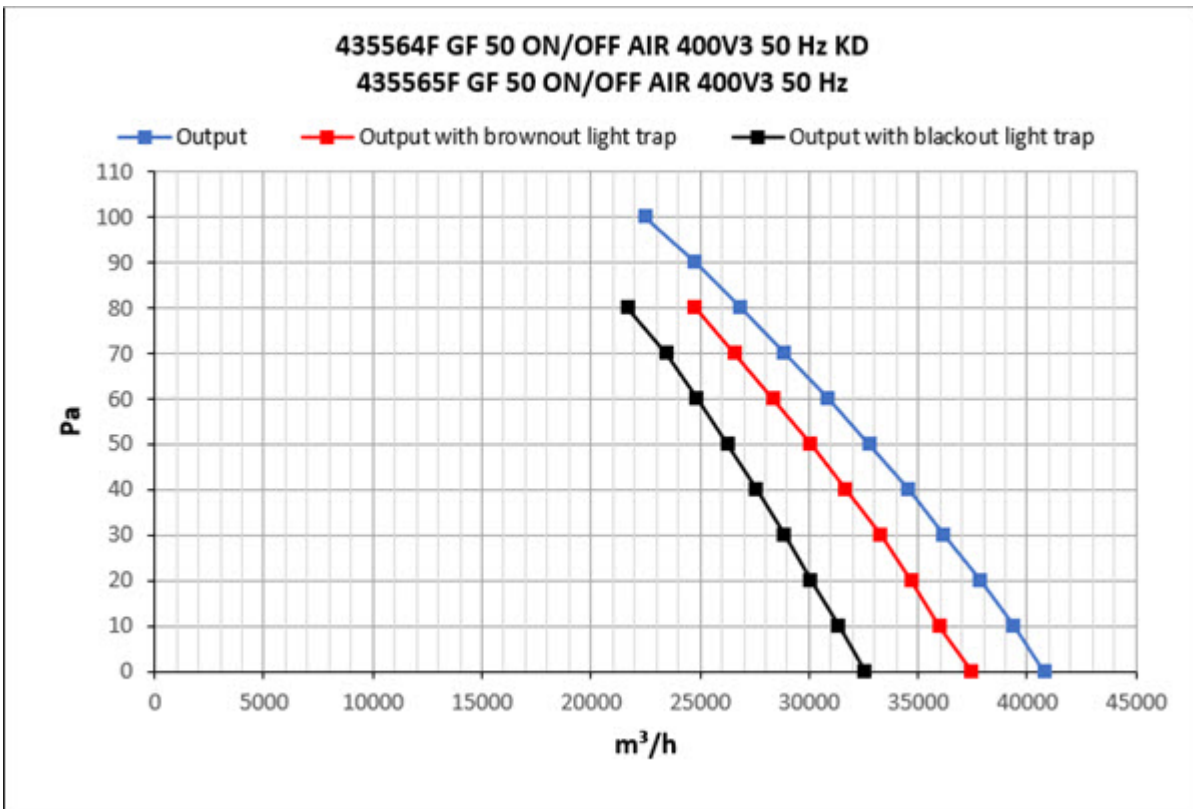
3.4.1 GF 50 ON/OFF AIR 3x400 V with cone

GF 50 ON/OFF AIR 3x400 V with cone should not be used for negative pressure higher than 80 Pa.



3.4.2 GF 50 ON/OFF AIR 3x400 V without cone

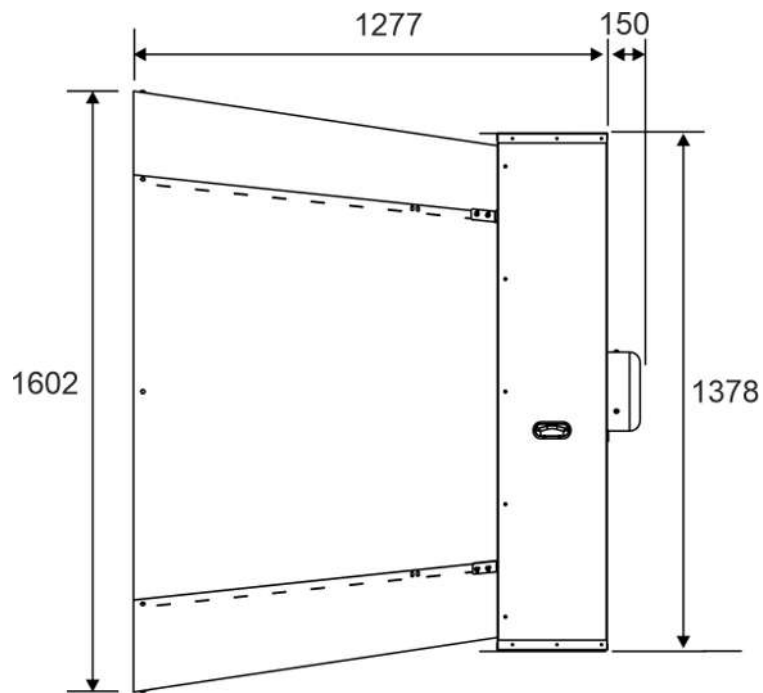
GF 50 ON/OFF AIR 3X400 V without cone should not be used for negative pressure higher than 80 Pa.



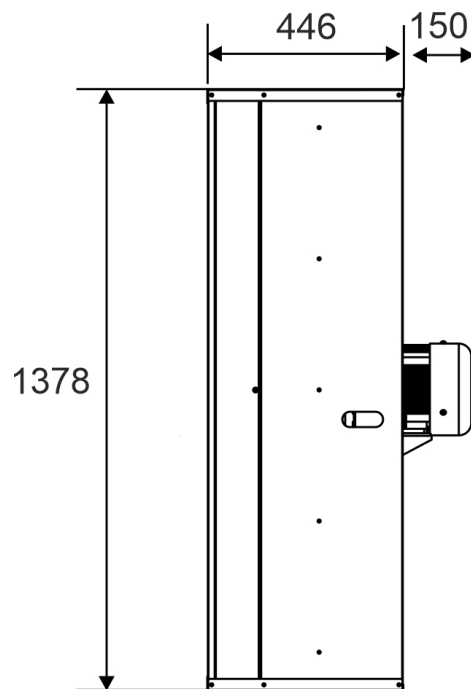
3.5 Dimensioned sketch

Dimensions in mm.

3.5.1 GF 50 ON/OFF AIR 3x400 V with cone



3.5.2 GF 50 ON/OFF AIR 3x400 V without cone



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