

BF 55 Wall Fan

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1 Product description

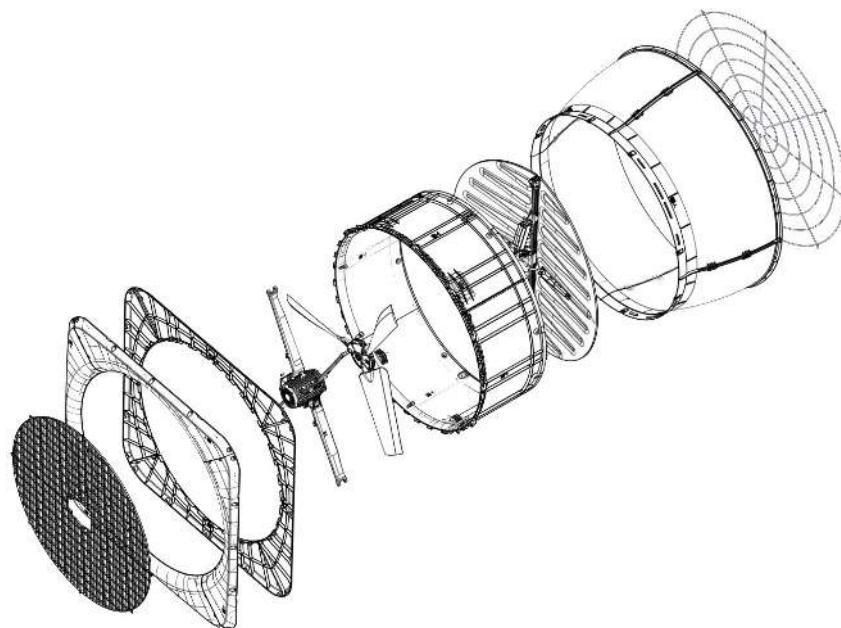
The BF 55 wall fan is a flange-mounted corrosion-free fan with cone and motor-controlled shutter. The fan is supplied in one version focused on low energy consumption and one version focused on maximizing air output. Both versions are available in several variants.

BF 55 is characterized by having a particularly tightly closed motor-operated shutter, which prevents unwanted air movement when the fan is not in operation, and a direct-driven motor to reduce motor maintenance.

BF 55 is specially designed for harsh livestock house environments. This applies to both climatic and electrical influences.



2 Product survey



2.1 BF 55 wall fan

2.2 Type key

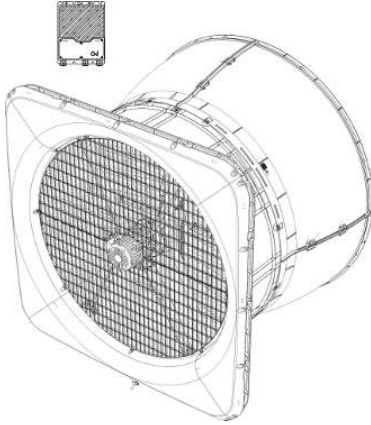
		BF 55 ON/OFF HF 400V3 50Hz TH	
		Fan name	
Blue fan	BF		
		Fan size	
Impeller diameter in inches"	55		
		Fan type	
AC fan	ON/OFF		
LPC fan	LPC		
		Fan characteristics	
Low energy	LE		
High flow	HF		
Extra high flow	HF+		
		Rated voltage	
3x400 V AC	400V3		
3x230 V AC	230V3		
1x230 V AC	230V1		
		Supply frequency	
50 Hz and 60 Hz	50/60Hz		
50 Hz	50Hz		
60 Hz	60Hz		
		Thermal cutout	
Thermal cutout	TH		

For every 100 pcs. BF 55 wall fans 1 extra BF 55 mounting parts and documentation (560412) are supplied. For every 101-200 pcs., 2 extra BF 55 mounting parts and documentation (560412) etc. are supplied.

The mounting parts consists of:

1 x BF 55 mounting parts.

3 x technical user guides for the BF 55 wall fans in English.



435461 BF 55 LPC LE 230V1 50/60Hz 1 pcs.

435473 BF 55 LPC LE 230V1 50/60Hz 2 pcs.

Fan control method - stepless.

Shutter system control method - ON/OFF.

LPC motor drive.

PM motor 230V 1,5 kW.

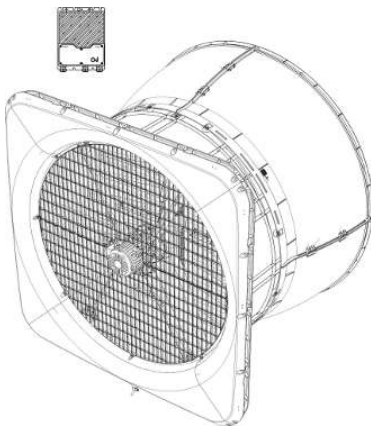
4 m motor cable.

Supplied with fan housing, motor shutter, motor, impeller, LPC motor drive, safety nets, and mounting parts.

Safety nets inside and outside must be mounted to comply with CE marking.

ErP 2015 approved.

Should not be used for negative pressure higher than 80 Pa.



435463 BF 55 LPC HF 400V3 50/60Hz 1 pcs.

435475 BF 55 LPC HF 400V3 50/60Hz 2 pcs.

435464 BF 55 LPC HF 400V3 50/60Hz TH 1 pcs.

435476 BF 55 LPC HF 400V3 50/60Hz TH 2 pcs.

Fan control method - stepless.

Shutter system control method - ON/OFF.

LPC motor drive.

PM motor 400V 1,8 kW.

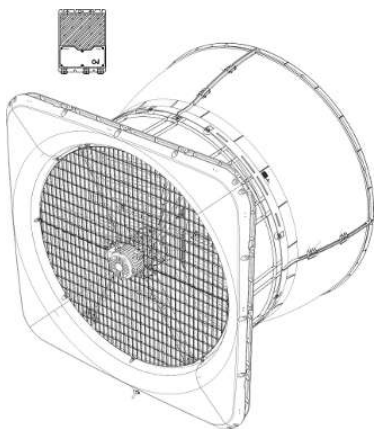
4 m motor cable.

Supplied with fan housing, motor shutter, motor, impeller, LPC motor drive, safety nets, and mounting parts.

Safety nets inside and outside must be mounted to comply with CE marking.

ErP 2015 approved.

Should not be used for negative pressure higher than 100 Pa.



435462 BF 55 LPC HF 230V3 50/60Hz 1 pcs.

435474 BF 55 LPC HF 230V3 50/60Hz 2 pcs.

Fan control method - stepless.

Shutter system control method - ON/OFF.

LPC motor drive.

PM motor 230V 1,8 kW.

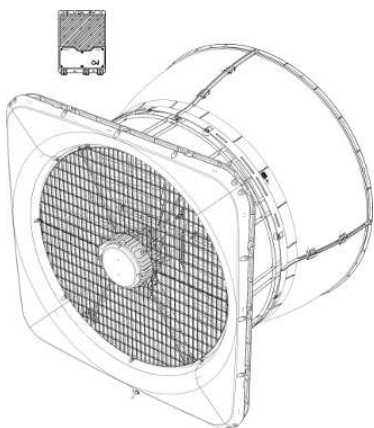
4 m motor cable.

Supplied with fan housing, motor shutter, motor, impeller, LPC motor drive, safety nets, and mounting parts.

Safety nets inside and outside must be mounted to comply with CE marking.

ErP 2015 approved.

Should not be used for negative pressure higher than 100 Pa.



435466 BF 55 LPC HF+ 400V3 50/60Hz 1 pcs.

435478 BF 55 LPC HF+ 400V3 50/60Hz 2 pcs.

Fan control method - stepless.

Shutter system control method - ON/OFF.

LPC motor drive.

PM motor 400V 2,5 kW.

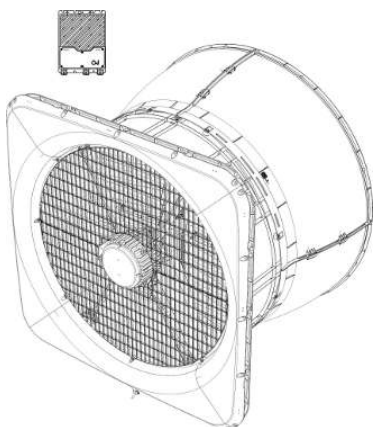
4 m motor cable.

Supplied with fan housing, motor shutter, motor, impeller, LPC motor drive, safety nets, and mounting parts.

Safety nets inside and outside must be mounted to comply with CE marking.

ErP 2015 approved.

Should not be used for negative pressure higher than 120 Pa.



435465 BF 55 LPC HF+ 230V3 50/60Hz 1 pcs.

435477 BF 55 LPC HF+ 230V3 50/60Hz 2 pcs.

Fan control method - stepless.

Shutter system control method - ON/OFF.

LPC motor drive.

PM motor 230V 2,5 kW.

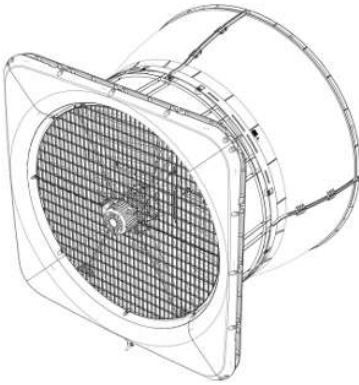
4 m motor cable.

Supplied with fan housing, motor shutter, motor, impeller, LPC motor drive, safety nets, and mounting parts.

Safety nets inside and outside must be mounted to comply with CE marking.

ErP 2015 approved.

Should not be used for negative pressure higher than 120 Pa.



435467 BF 55 ON/OFF LE 400V3 50Hz 1 pcs.
435479 BF 55 ON/OFF LE 400V3 50Hz 2 pcs.
435468 BF 55 ON/OFF LE 400V3 50Hz TH 1 pcs.
435480 BF 55 ON/OFF LE 400V3 50Hz TH 2 pcs.

Fan control method - ON/OFF.

Shutter system control method - ON/OFF.

AC motor 3x400 V 1.5 hp.

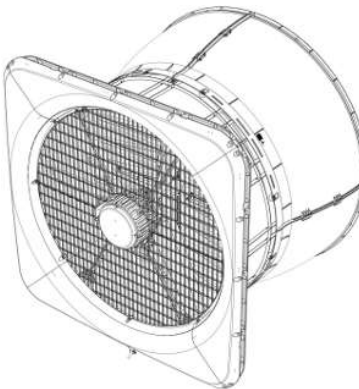
4 m motor cable.

Supplied with fan housing, motor shutter, motor, impeller, safety nets, and mounting parts.

Safety nets inside and outside must be mounted to comply with CE marking.

ErP 2015 approved.

Should not be used for negative pressure higher than 80 Pa.



435536 BF 55 ON/OFF LE 400V3 60Hz 1 pcs.
435537 BF 55 ON/OFF LE 400V3 60Hz 2 pcs.

Fan control method - ON/OFF.

Shutter system control method - ON/OFF.

AC motor 3x400 V 3 hp.

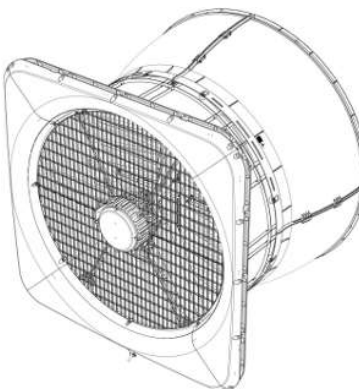
4 m motor cable.

Supplied with fan housing, motor shutter, motor, impeller, safety nets, and mounting parts.

Safety nets inside and outside must be mounted to comply with CE marking.

ErP 2015 approved.

Should not be used for negative pressure higher than 80 Pa.



435470 BF 55 ON/OFF HF 400V3 50Hz 1 pcs.
435482 BF 55 ON/OFF HF 400V3 50Hz 2 pcs.

Fan control method - ON/OFF.

Shutter system control method - ON/OFF.

AC motor 3x400 V 3 hp.

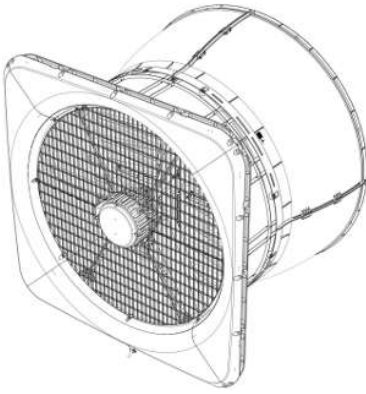
4 m motor cable.

Supplied with fan housing, motor shutter, motor, impeller, safety nets, and mounting parts.

Safety nets inside and outside must be mounted to comply with CE marking.

ErP 2015 approved.

Should not be used for negative pressure higher than 100 Pa.



435544 BF 55 ON/OFF HF 400V3 60Hz 1 pcs.

435546 BF 55 ON/OFF HF 400V3 60Hz 2 pcs.

Fan control method - ON/OFF.

Shutter system control method - ON/OFF.

AC motor 3x400 V 3 hp.

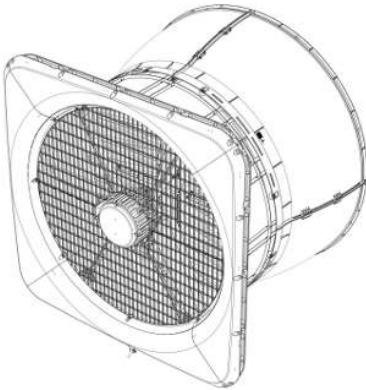
4 m motor cable.

Supplied with fan housing, motor shutter, motor, impeller, safety nets, and mounting parts.

Safety nets inside and outside must be mounted to comply with CE marking.

ErP 2015 approved.

Should not be used for negative pressure higher than 100 Pa.



435534 BF 55 ON/OFF LE 230V3 60Hz 1 pcs.

435535 BF 55 ON/OFF LE 230V3 60Hz 2 pcs.

Fan control method - ON/OFF.

Shutter system control method - ON/OFF.

AC motor 3x230 V 3 hp.

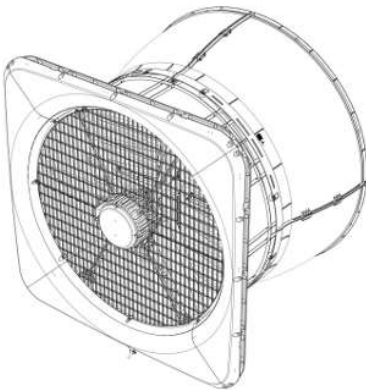
4 m motor cable.

Supplied with fan housing, motor shutter, motor, impeller, safety nets, and mounting parts.

Safety nets inside and outside must be mounted to comply with CE marking.

ErP 2015 approved.

Should not be used for negative pressure higher than 80 Pa.



435543 BF 55 ON/OFF HF 230V3 60Hz 1 pcs.

435545 BF 55 ON/OFF HF 230V3 60Hz 2 pcs.

Fan control method - ON/OFF.

Shutter system control method - ON/OFF.

AC motor 3x230 V 3 hp.

4 m motor cable.

Supplied with fan housing, motor shutter, motor, impeller, safety nets, and mounting parts.

Safety nets inside and outside must be mounted to comply with CE marking.

ErP 2015 approved.

Should not be used for negative pressure higher than 100 Pa.

2.3 Accessories



435496 BF 55 magnet and tool kit

Magnet and toolkit is used to prevent the shutter plates from clattering in the closed position if the BF 55 is subject to strong wind impact.

1 per wall fan.

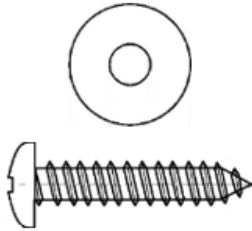


560412 BF 55 mounting parts and dokumentation

Mounting parts and dokumentation is used for mounting the fan motor.

Includes:

- 1 x BF 55 mounting parts
- 3 x technical user guides for the BF 55 wall fans in English.



435319 BF 55/DA 1700 screw kit

BF 55/DA 1700 screw kit can be used for mounting the wall fan in wall.

1 per wall fan

Includes:

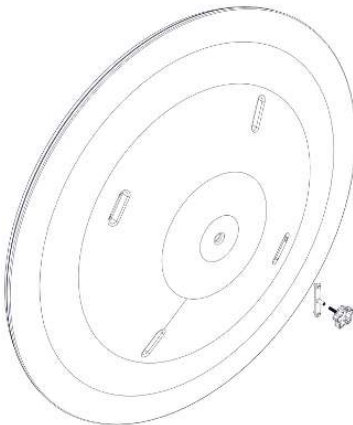
- 21 x tapping screw 4.8x70 pan TX25 A2 ISO14585C
- 21 x washers $\varnothing 6.4/\varnothing 18 \times 1.6$ A2 DIN9021



530162 Berner Fix MS-polymer sealer gray 600 ml

Joint sealer is used for pointing against the wall.

3 per wall fan.



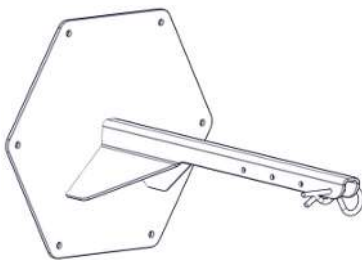
435494 BF 55 insulation plate

The plate is used to minimize draft and heat loss during cold periods, when BF 55 is not in use.

The plate should always be used if the dimensioned outside temperature is less than 0 °C.

Supplied with mounting parts.

1 per wall fan.



435328 BF 55/DA 1700 bracket for insulation plates

BF 55/DA 1700 bracket for insulation plates is used for storage of insulation plates when they are not in use, i.e. typically during the summer.

1 per 5 BF 55/DA 1700 insulation plates.

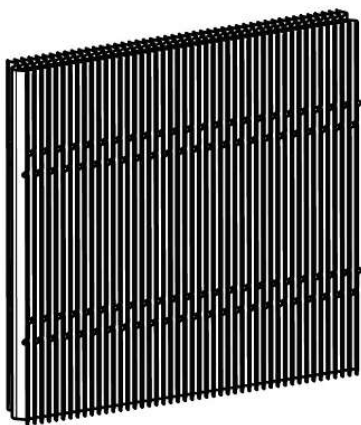


435516 BF 55/DA 1700 cover for cone

Used to prevent ice, snow etc. from settling in the cone, which can damage the shutter system.

The cover is blown off automatically at start-up and must be fitted manually again.

1 per wall fan.

**435325 BF 55/DA 1700 light trap black out**

The light trap is mounted and removed manually.

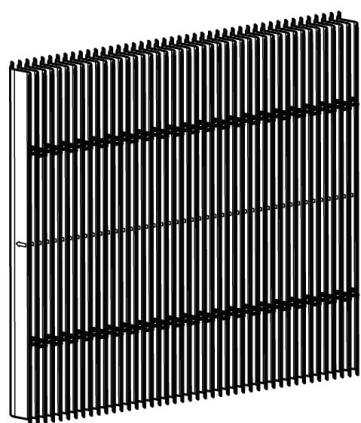
Supplied as an unassembled unit incl. brackets.

Used for BF 55/DA 1700 wall fan if a large amount of dimming is required in the livestock house.

Light reduction factor 11.000.000:1.

The light trap reduces the air output of the fan by approx. 28%.

For mounting light trap see Mounting guide for BF 55/DA 1700 light trap black out.

**435326 BF 55/DA 1700 light trap brown out**

The light trap is mounted and removed manually.

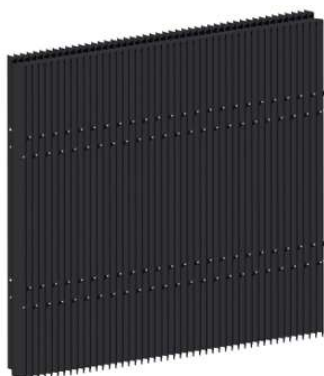
Supplied as an unassembled unit incl. brackets.

Used for BF 55/DA 1700 wall fan if dimming is required in the livestock house.

Light reduction factor 17.000:1.

The light trap reduces the air output of the fan by approx. 15 %.

For mounting light trap see Mounting guide for BF 55/DA 1700 light trap brown out.

**435329 light trap flex black out 2120 mm**

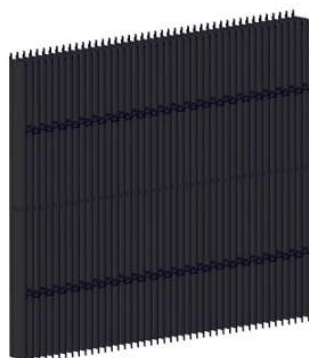
Used if a large amount of dimming is required in the livestock house.

The light reduction factor is 11.000.000:1.

The light trap is 1660 mmin height, 230 mmin depth, and 2120 mmin length.

The light trap can be dismantled by hand.

Please note that U-profiles/brackets are not included.

**435330 light trap flex brown out 2650 mm**

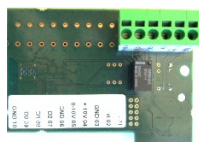
Used if a large amount of dimming is required in the livestock house.

The light reduction factor is 17.000:1.

The light trap is 1660 mmin height, 230 mmin depth, and 2650 mmin length.

The light trap can be dismantled by hand.

Please note that U-profiles/brackets are not included.

**445076 LPC-2 relay module**

Used for mounting in motor drive, if an alarm output is required.

1 x potential free output relay 1 A, 30 V DC/24 V AC.

3 Technical data

3.1 BF 55 LPC LE 230V1

		435461 / 435473 BF 55 LPC LE 230V1
Electrical		
Rated voltage	V AC	230 ± 10 %
Operating voltage	V AC	175 – 280 For supply voltages below the rated voltage range, a reduction of the fan's RPM may occur depending on the load and ambient temperature.
RCD		To be installed in accordance with applicable laws and standards. RCD 300 mA (type B) can be used in front of the supply voltage for LPC-regulated fans.
Frequency	Hz	50/60
Leakage current to ground at: 0 - 100 Hz 0 - 1 kHz 0 - 20 kHz 0 - 100 kHz	mA RMS	It is recommended to perform equipotential bonding to the cabinet, on motor drive due to leakage current to ground. 9 10 16 29 Pay attention to other leakage current sources in the house.
Max. fuse	A	16
Max. current consumption At 230 V AC supply	A	5.8
Max. input power (P1)	W	1321
CosPhi [Φ]	Factor	0.99
Regulation ability		20 to 100% / 8 – 0 V
Motor protection		Built-in current limiter in LPC motor drive. Use fuse in front of LPC motor drive.
Thermal cutout (PTO)		-
Interface		
Inputs		
A1: Analog fan speed	V DC	10 – 0 (default)
D1: Start / Stop	V DC	0 / 24 with internal pull-up
D2: Polarity analog input 0-10 V / 10-0 V	V DC	0 / 24 with internal pull-up
LPC-2 relay module (accessory)		
D3: Input reversing	V DC	0 - 24 with internal pull-up
Output alarm relay		1 A, 30 V DC, 24 V AC
Mechanical		
Cable glands in motor drive		M20 to 7 - 13 mm cable
Cable length	m	4 m shielded
Impeller diameter	mm	1400

		435461 / 435473 BF 55 LPC LE 230V1
Number of fan blades	pcs.	3
Fan blade pitch	°	45
Fan output		
Revolutions per minute	RPM	580
Air output at 0 Pa	m ³ /h	52800
Air output at -10 Pa	m ³ /h	50100
Air output at -20 Pa	m ³ /h	47300
Air output at -30 Pa	m ³ /h	44600
Air output at -40 Pa	m ³ /h	41300
Air output at -50 Pa	m ³ /h	37400
Air output at -60 Pa	m ³ /h	33100
Air output at -70 Pa	m ³ /h	28500
Air output at -80 Pa	m ³ /h	21300
Power consumption at -10 Pa	W	1153
Specific output at -10 Pa	m ³ /kWh	43500
Specific energy at -10 Pa	Watt/1000 m ³ /h	23
Testing body		SKOV A/S
Environment		
*Temperature, operation	°C	0 to + 40
Temperature, storage	°C	+ 40 to + 70
Ambient humidity, operation	% RH	10 - 95
Protection class	IP	Motor drive: IP 65. Fan motor: IP 65
Storage (motor drive / fan motor)		Indoors and dry
Fan noise (sound pressure), outside (2 m, 45 degrees)	dB (A)	74
Shipment		
Fan housing crated HxWxD	mm	1586x706x660
Fan motor crated HxWxD	mm	230x250x370
Impeller crated HxWxD	mm	748x270x130
Motor drive crated HxWxD	mm	310x165x230
Mounting parts crated HxWxD	mm	550x155x145
Fan housing weight	g	70000 / 119000
Cone weight	g	18460
Fan motor weight	g	19000
Impeller weight	g	5641
Motor drive weight	g	4119
Mounting parts weight	g	3969

*Before start-up, ensure that snow and ice are removed from the cone and all moving parts.

3.1.1 ErP/Ecodesign BF 55 LPC LE 230V1

Fan type		
Ecodesign		ErP 2015 (40)
Efficiency classification	N	54.7
Efficiency (η)	%	49.1
Measurement setup		A
Fan efficiency		Static
VSD required		Yes
Year of production		2022
Name of manufacturer		SKOV A/S
Item number		435461 / 435473
Motor power input	W	1293.6
Flow rate	m ³ /s	8.4
Optimum pressure	Pa	70
Revolutions per minute	RPM	580
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 BF 55 LPC HF 400V3

		435463 / 435475 BF 55 LPC HF 400V3	435464 / 435476 BF 55 LPC HF 400V3 TH
Electrical			
Rated voltage	V AC	400 ± 10 %	
Operating voltage	V AC	300 – 485 For supply voltages below the rated voltage range, a reduction of the fan's RPM may occur depending on the load and ambient temperature.	
RCD		To be installed in accordance with applicable laws and standards. RCD 300 mA (type B) can be used in front of the supply voltage for LPC-regulated fans.	
Frequency	Hz	50/60	
Leakage current to ground at: 0 - 100 Hz 0 - 1 kHz 0 - 20 kHz 0 - 100 kHz	mA RMS	It is recommended to perform equipotential bonding to the cabinet, on motor drive due to leakage current to ground. 3 9 16 20 Pay attention to other leakage current sources in the house.	
Max. fuse	A	16	
Max. current consumption At 400 V AC supply	A	3.5	
Max. input power (P1)	W	2208	
CosPhi [Φ]	Factor	0.93	
Regulation ability		20 to 100% / 8 – 0 V	
Motor protection		Built-in current limiter in LPC motor drive. Use fuse in front of LPC motor drive.	
Thermal cutout (PTO)		-	Thermik ST01 130 5 in separate cable
Interface			
Inputs			
A1: Analog fan speed	V DC	10 – 0 (default)	
D1: Start / Stop	V DC	0 / 24 with internal pull-up	
D2: Polarity analog input 0-10 V / 10-0 V	V DC	0 / 24 with internal pull-up	
LPC-2 relay module (accessory)			
D3: Input reversing	V DC	0 - 24 with internal pull-up	
Output alarm relay		1 A, 30 V DC, 24 V AC	
Mechanical			
Cable glands in motor drive		M20 to 7 - 13 mm cable	
Cable length	m	4 m shielded	
Impeller diameter	mm	1400	
Number of fan blades	pcs.	3	

		435463 / 435475 BF 55 LPC HF 400V3	435464 / 435476 BF 55 LPC HF 400V3 TH
Fan blade pitch	°	45	
Fan output			
Revolutions per minute	RPM	700	
Air output at 0 Pa	m³/h	64300	
Air output at -10 Pa	m³/h	62100	
Air output at -20 Pa	m³/h	60000	
Air output at -30 Pa	m³/h	57700	
Air output at -40 Pa	m³/h	55300	
Air output at -50 Pa	m³/h	52700	
Air output at -60 Pa	m³/h	50000	
Air output at -70 Pa	m³/h	47200	
Air output at -80 Pa	m³/h	44100	
Air output at -90 Pa	m³/h	40500	
Air output at -100 Pa	m³/h	36800	
Power consumption at -10 Pa	W	1853	
Specific output at -10 Pa	m³/kWh	33500	
Specific energy at -10 Pa	Watt/1000 m³/h	30	
Testing body		SKOV A/S	
Environment			
*Temperature, operation	°C	0 to + 40	
Temperature, storage	°C	÷ 40 to + 70	
Ambient humidity, operation	% RH	10 - 95	
Protection class	IP	Motor drive: IP 65. Fan motor: IP 65	
Storage (motor drive / fan motor)		Indoors and dry	
Fan noise (sound pressure), outside (2 m, 45 degrees)	dB (A)	79	
Shipment			
Fan housing crated HxWxD	mm	1586x706x660	
Fan motor crated HxWxD	mm	230x250x370	
Impeller crated HxWxD	mm	748x270x130	
Motor drive crated HxWxD	mm	310x165x230	
Mounting parts crated HxWxD	mm	550x155x145	
Fan housing weight	g	70000 / 119000	
Cone weight	g	18460	
Fan motor weight	g	23000	
Impeller weight	g	5641	
Motor drive weight	g	3202	
Mounting parts weight	g	3969	

*Before start-up, ensure that snow and ice are removed from the cone and all moving parts.

3.2.1 ErP/Ecodesign BF 55 LPC HF 400V3

Fan type		
Ecodesign		ErP 2015 (40)
Efficiency classification	N	57.4
Efficiency (η)	%	53.1
Measurement setup		A
Fan efficiency		Static
VSD required		Yes
Year of production		2022
Name of manufacturer		SKOV A/S
Item number		435463 / 435475 / 435464 / 435476
Motor power input	W	2108.6
Flow rate	m ³ /s	10.52
Optimum pressure	Pa	100
Revolutions per minute	RPM	700
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		-

3.3 BF 55 LPC HF 230V3

		435462 / 435474 BF 55 LPC HF 230V3
Electrical		
Rated voltage	V AC	230 ± 10 %
Operating voltage	V AC	175 – 280 For supply voltages below the rated voltage range, a reduction of the fan's RPM may occur depending on the load and ambient temperature.
RCD		To be installed in accordance with applicable laws and standards. RCD 300 mA (type B) can be used in front of the supply voltage for LPC-regulated fans.
Frequency	Hz	50/60
Leakage current to ground at: 0 - 100 Hz 0 - 1 kHz 0 - 20 kHz 0 - 100 kHz	mA RMS	It is recommended to perform equipotential bonding to the cabinet, on motor drive due to leakage current to ground. 3 4 13 17 Pay attention to other leakage current sources in the house.
Max. fuse	A	16
Max. current consumption At 230 V AC supply	A	6.0
Max. input power (P1)	W	2237
CosPhi [Φ]	Factor	0.95
Regulation ability		20 to 100% / 8 – 0 V
Motor protection		Built-in current limiter in LPC motor drive. Use fuse in front of LPC motor drive.
Thermal cutout (PTO)		-
Interface		
Inputs		
A1: Analog fan speed	V DC	10 – 0 (default)
D1: Start / Stop	V DC	0 / 24 with internal pull-up
D2: Polarity analog input 0-10 V / 10-0 V	V DC	0 / 24 with internal pull-up
LPC-2 relay module (accessory)		
D3: Input reversing	V DC	0 - 24 with internal pull-up
Output alarm relay		1 A, 30 V DC, 24 V AC
Mechanical		
Cable glands in motor drive		M20 to 7 - 13 mm cable
Cable length	m	4 m shielded
Impeller diameter	mm	1400
Number of fan blades	pcs.	3
Fan blade pitch	°	45

		435462 / 435474 BF 55 LPC HF 230V3
Fan output		
Revolutions per minute	RPM	700
Air output at 0 Pa	m ³ /h	63900
Air output at -10 Pa	m ³ /h	62100
Air output at -20 Pa	m ³ /h	60000
Air output at -30 Pa	m ³ /h	57500
Air output at -40 Pa	m ³ /h	55100
Air output at -50 Pa	m ³ /h	52600
Air output at -60 Pa	m ³ /h	49700
Air output at -70 Pa	m ³ /h	47200
Air output at -80 Pa	m ³ /h	44200
Air output at -90 Pa	m ³ /h	40700
Air output at -100 Pa	m ³ /h	36700
Power consumption at -10 Pa	W	1869
Specific output at -10 Pa	m ³ /kWh	33200
Specific energy at -10 Pa	Watt/1000 m ³ /h	30
Testing body		SKOV A/S
Environment		
*Temperature, operation	°C	0 to + 40
Temperature, storage	°C	+ 40 to + 70
Ambient humidity, operation	% RH	10 - 95
Protection class	IP	Motor drive: IP 65. Fan motor: IP 65
Storage (motor drive / fan motor)		Indoors and dry
Fan noise (sound pressure), outside (2 m, 45 degrees)	dB (A)	79
Shipment		
Fan housing crated HxWxD	mm	1586x706x660
Fan motor crated HxWxD	mm	230x250x370
Impeller crated HxWxD	mm	748x270x130
Motor drive crated HxWxD	mm	415x315x175
Mounting parts crated HxWxD	mm	550x155x145
Fan housing weight	g	70000 / 119000
Cone weight	g	18460
Fan motor weight	g	23000
Impeller weight	g	5641
Motor drive weight	g	4596
Mounting parts weight	g	3969

*Before start-up, ensure that snow and ice are removed from the cone and all moving parts.

3.3.1 ErP/Ecodesign BF 55 LPC HF 230V3

Fan type		
Ecodesign		ErP 2015 (40)
Efficiency classification	N	56.7
Efficiency (η)	%	52.5
Measurement setup		A
Fan efficiency		Static
VSD required		Yes
Year of production		2022
Name of manufacturer		SKOV A/S
Item number		435462 / 435474
Motor power input	W	2131.6
Flow rate	m ³ /s	10.49
Optimum pressure	Pa	100.1
Revolutions per minute	RPM	701
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		-

3.4 BF 55 LPC HF+ 400V3

		435466 / 435478 BF 55 LPC HF+ 400V3
Electrical		
Rated voltage	V AC	400 ± 10 %
Operating voltage	V AC	310 – 485 For supply voltages below the rated voltage range, a reduction of the fan's RPM may occur depending on the load and ambient temperature.
RCD		To be installed in accordance with applicable laws and standards. RCD 300 mA (type B) can be used in front of the supply voltage for LPC-regulated fans.
Frequency	Hz	50/60
Leakage current to ground at: 0 - 100 Hz 0 - 1 kHz 0 - 20 kHz 0 - 100 kHz	mA RMS	It is recommended to perform equipotential bonding to the cabinet, on motor drive due to leakage current to ground. 15 15 56 67 Pay attention to other leakage current sources in the house.
Max. fuse	A	16
Max. power consumption With 400 V AC power supply	A	4.9
Max. input power (P1)	W	3120
CosPhi [Φ]	Factor	0.93
Regulation ability		20 to 100% / 8 – 0 V
Motor protection		Built-in current limiter in LPC motor drive. Use fuse in front of LPC motor drive.
Thermal cutout (PTO)		-
Interface		
Inputs		
A1: Analog fan speed	V DC	10 – 0 (default)
D1: Start / Stop	V DC	0 / 24 with internal pull-up
D2: Polarity analog input 0-10 V / 10-0 V	V DC	0 / 24 with internal pull-up
LPC-2 relay module (accessory)		
D3: Input reversing	V DC	0 - 24 with internal pull-up
Output alarm relay		1 A, 30 V DC, 24 V AC
Mechanical		
Cable glands in motor drive		M20 to 7 - 13 mm cable
Cable length	m	4 m shielded
Impeller diameter	mm	1400
Number of fan blades	pcs.	3
Fan blade pitch	°	47

		435466 / 435478 BF 55 LPC HF+ 400V3
Fan output		
Revolutions per minute	RPM	750
Air output at 0 Pa	m ³ /h	73400
Air output at -10 Pa	m ³ /h	71400
Air output at -20 Pa	m ³ /h	69600
Air output at -30 Pa	m ³ /h	67300
Air output at -40 Pa	m ³ /h	65000
Air output at -50 Pa	m ³ /h	62300
Air output at -60 Pa	m ³ /h	59900
Air output at -70 Pa	m ³ /h	57200
Air output at -80 Pa	m ³ /h	54800
Air output at -90 Pa	m ³ /h	51800
Air output at -100 Pa	m ³ /h	48600
Air output at -110 Pa	m ³ /h	45900
Air output at -120 Pa	m ³ /h	41600
Power consumption at -10 Pa	W	2646
Specific output at -10 Pa	m ³ /kWh	27000
Specific energy at -10 Pa	Watt/1000 m ³ /h	37
Testing body		SKOV A/S
Environment		
*Temperature, operation	°C	0 to + 40
Temperature, storage	°C	÷ 40 to + 70
Ambient humidity, operation	% RH	10 - 95
Protection class	IP	Motor drive: IP 65. Fan motor: IP 65
Storage (motor drive / fan motor)		Indoors and dry
Fan noise (sound pressure), outside (2 m, 45 degrees)	dB (A)	81
Fan noise (sound effect), out- side (2 m, 45 degrees)	dB (A)	95
Shipment		
Fan housing crated HxWxD	mm	1586x706x660
Fan motor crated HxWxD	mm	280x350x390
Impeller crated HxWxD	mm	748x270x130
Motor drive crated HxWxD	mm	310x165x230
Mounting parts crated HxWxD	mm	550x155x145
Fan housing weight	g	69750 / 118500
Cone weight	g	18460
Fan motor weight	g	30800
Impeller weight	g	5641
Motor drive weight	g	3202
Mounting parts weight	g	3969

*Before start-up, ensure that snow and ice are removed from the cone and all moving parts.

3.4.1 ErP/Ecodesign BF 55 LPC HF+ 400V3

Fan type		
Ecodesign		ErP 2015 (40)
Efficiency classification	N	56
Efficiency (η)	%	52.7
Measurement setup		A
Fan efficiency		Static
VSD required		Yes
Year of production		2022
Name of manufacturer		SKOV A/S
Item number		435466 / 435478
Motor power input	W	3022.2
Flow rate	m ³ /s	12.14
Optimum pressure	Pa	124.5
Revolutions per minute	RPM	750
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		-

3.5 BF 55 LPC HF+ 230V3

		435465 / 435477 BF 55 LPC HF+ 230V3
Electrical		
Rated voltage	V AC	230 ± 10 %
Operating voltage	V AC	190 – 280 For supply voltages below the rated voltage range, a reduction of the fan's RPM may occur depending on the load and ambient temperature.
RCD		To be installed in accordance with applicable laws and standards. RCD 300 mA (type B) can be used in front of the supply voltage for LPC-regulated fans.
Frequency	Hz	50/60
Leakage current to ground at: 0 - 100 Hz 0 - 1 kHz 0 - 20 kHz 0 - 100 kHz	mA RMS	It is recommended to perform equipotential bonding to the cabinet, on motor drive due to leakage current to ground. 9 9 22 27 Pay attention to other leakage current sources in the house.
Max. fuse	A	16
Max. power consumption With 230 V AC power supply	A	8.0
Max. input power (P1)	W	3114
CosPhi [Φ]	Factor	0.97
Regulation ability		20 to 100% / 8 – 0 V
Motor protection		Built-in current limiter in LPC motor drive. Use fuse in front of LPC motor drive.
Thermal cutout (PTO)		-
Interface		
Inputs		
A1: Analog fan speed	V DC	10 – 0 (default)
D1: Start / Stop	V DC	0 / 24 with internal pull-up
D2: Polarity analog input 0-10 V / 10-0 V	V DC	0 / 24 with internal pull-up
LPC-2 relay module (accessory)		
D3: Input reversing	V DC	0 - 24 with internal pull-up
Output alarm relay		1 A, 30 V DC, 24 V AC
Mechanical		
Cable glands in motor drive		M20 to 7 - 13 mm cable
Cable length	m	4 m shielded
Impeller diameter	mm	1400
Number of fan blades	pcs.	3
Fan blade pitch	°	47

		435465 / 435477 BF 55 LPC HF+ 230V3
Fan output		
Revolutions per minute	RPM	750
Air output at 0 Pa	m ³ /h	72900
Air output at -10 Pa	m ³ /h	70700
Air output at -20 Pa	m ³ /h	68900
Air output at -30 Pa	m ³ /h	66600
Air output at -40 Pa	m ³ /h	64300
Air output at -50 Pa	m ³ /h	61900
Air output at -60 Pa	m ³ /h	59200
Air output at -70 Pa	m ³ /h	56600
Air output at -80 Pa	m ³ /h	54100
Air output at -90 Pa	m ³ /h	51000
Air output at -100 Pa	m ³ /h	48200
Air output at -110 Pa	m ³ /h	45000
Air output at -120 Pa	m ³ /h	41100
Power consumption at -10 Pa	W	2635
Specific output at -10 Pa	m ³ /kWh	26800
Specific energy at -10 Pa	Watt/1000 m ³ /h	37
Testing body		SKOV A/S
Environment		
*Temperature, operation	°C	0 to + 40
Temperature, storage	°C	÷ 40 to + 70
Ambient humidity, operation	% RH	10 - 95
Protection class	IP	Motor drive: IP 65. Fan motor: IP 65
Storage (motor drive / fan motor)		Indoors and dry
Fan noise (sound pressure), outside (2 m, 45 degrees)	dB (A)	81
Fan noise (sound effect), out- side (2 m, 45 degrees)		95
Shipment		
Fan housing crated HxWxD	mm	1586x706x660
Fan motor crated HxWxD	mm	380x350x390
Impeller crated HxWxD	mm	748x270x130
Motor drive crated HxWxD	mm	415x315x175
Mounting parts crated HxWxD	mm	550x155x145
Fan housing weight	g	69750 / 118500
Cone weight	g	18460
Fan motor weight	g	30800
Impeller weight	g	5641
Motor drive weight	g	4762
Mounting parts weight	g	3969

*Before start-up, ensure that snow and ice are removed from the cone and all moving parts.

3.5.1 ErP/Ecodesign BF 55 LPC HF+ 230V3

Fan type		
Ecodesign		ErP 2015 (40)
Efficiency classification	N	54.9
Efficiency (η)	%	51.7
Measurement setup		A
Fan efficiency		Static
VSD required		Yes
Year of production		2022
Name of manufacturer		SKOV A/S
Item number		435465 / 435477
Motor power input	W	3057.2
Flow rate	m ³ /s	12.03
Optimum pressure	Pa	124.5
Revolutions per minute	RPM	750
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		-

3.6 BF 55 ON/OFF LE 400V3

		435467 / 435479 BF 55 ON/OFF LE 400V3 50 Hz	435468 / 435480 BF 55 ON/OFF LE 400V3 TH 50 Hz	435536 / 435537 BF 55 ON/OFF LE 400V3 60 Hz
Electrical				
Rated voltage	V AC	400 +/-10%		
Operating voltage	V AC	360 – 440		
Frequency	Hz	50	60	
Max. current consumption	A	3.3	3.3	
At 400 V AC supply				
Max. input power (P1)	W	1644	1579	
Max. power (P2) shaft	W	1200	2000	
Efficiency motor [η]	%	78.5	81.1	
CosPhi [Φ]	Factor	0.74	0.79	
Motor protection thermal cutout (PTO)		-	Thermik ST01 130 5 in separate cable	-
Mechanical				
Cable length	m	4		
Impeller diameter	mm	1400		
Number of fan blades	pcs.	3		
Fan blade pitch	°	40	41	
Fan output				
Revolutions (rated current) per minute	RPM	720	695	
Air output at -0 Pa	m³/h	53200	51100	
Air output at -10 Pa	m³/h	51100	49000	
Air output at -20 Pa	m³/h	48900	46700	
Air output at -30 Pa	m³/h	46300	44000	
Air output at -40 Pa	m³/h	43700	42200	
Air output at -50 Pa	m³/h	41300	39800	
Air output at -60 Pa	m³/h	38900	37000	
Air output at -70 Pa	m³/h	35000	34100	
Air output at -80 Pa	m³/h	31100	30800	
Power consumption at -10 Pa	W	1426	1347	
Specific output at -10 Pa	m³/kWh	35800	36400	
Specific energy at -10 Pa	Watt/ 1000 m³/ h	28	27	
Testing body		SKOV A/S		
Environment				
*Temperature, operation	°C	0 to + 40		
Temperature, storage	°C	÷ 40 to + 70		
Ambient humidity, operation	% RH	10 - 95		

		435467 / 435479 BF 55 ON/OFF LE 400V3 50 Hz	435468 / 435480 BF 55 ON/OFF LE 400V3 TH 50 Hz	435536 / 435537 BF 55 ON/OFF LE 400V3 60 Hz
Protection class	IP	IP 65		
Fan noise, outside (2 m, 45 degrees)	dB (A)	78		77
Shipment				
Fan housing crated HxWxD	mm	1586x706x660		
Fan motor crated HxWxD	mm	280x225x380		
Impeller crated HxWxD	mm	748x270x130		
Mounting parts crated HxWxD	mm	550x155x145		
Fan housing weight	g	70000 / 119000		69750 /118500
Cone weight	g	18460		
Fan motor weight	g	22200		35600
Impeller weight	g	5641		
Mounting parts weight	g	3969		

*Before start-up, ensure that snow and ice are removed from the cone and all moving parts.

3.6.1 ErP/Ecodesign BF 55 ON/OFF LE 400V3

Fan type		BF 55 ON/OFF LE 400V3 50 Hz	BF 55 ON/OFF LE 400V3 60 Hz
Ecodesign		ErP 2015 (40)	
Efficiency classification	N	49.3	51.9
Efficiency (η)	%	44.2	46.8
Measurement setup		A	
Fan efficiency		Static	
VSD required		No	
Year of production		2022	2023
Name of manufacturer		SKOV A/S	
Item number		435467 / 435479 / 435468 / 435480	435536 / 435537
Motor power input	W	1607.4	1564.1
Flow rate	m ³ /s	8.89	7.35
Optimum pressure	Pa	80	99.5
Revolutions per minute	RPM	695	705
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		-	

3.7 BF 55 ON/OFF HF 400V3

		435470 / 435482 BF 55 ON/OFF HF 400V3 50 Hz	435544 / 435546 BF 55 ON/OFF HF 400V3 60 Hz
Electrical			
Rated voltage	V AC	400 +/-10%	
Operating voltage	V AC	360 – 440	
Frequency	Hz	50	60
Max. current consumption	A	4.92	4.67
At 400 V AC supply			
Max. input power (P1)	W	2584	2563
Max. power (P2) shaft	W	2000	2000
Efficiency motor [η]	%	80.5	81.1
CosPhi [Φ]	Factor	0.76	0.79
Motor protection thermal cutout (PTO)		-	
Mechanical			
Cable length	m	4	
Impeller diameter	mm	1400	
Number of fan blades	pcs.	3	
Fan blade pitch	°	36	28
Fan output			
Revolutions (rated current) per minute	RPM	580	695
Air output at -0 Pa	m³/h	67600	61600
Air output at -10 Pa	m³/h	65100	59400
Air output at -20 Pa	m³/h	62400	57400
Air output at -30 Pa	m³/h	59300	55300
Air output at -40 Pa	m³/h	56300	53000
Air output at -50 Pa	m³/h	53500	51000
Air output at -60 Pa	m³/h	50700	49000
Air output at -70 Pa	m³/h	47600	46700
Air output at -80 Pa	m³/h	44500	44400
Air output at -90 Pa	m³/h	41200	42000
Air output at -100 Pa	m³/h	37300	39800
Power consumption at -10 Pa	W	2263	1908
Specific output at -10 Pa	m³/kWh	28800	31100
Specific energy at -10 Pa	Watt/ 1000 m³/ h	35	32
Testing body		SKOV A/S	
Environment			
*Temperature, operation	°C	0 to + 40	
Temperature, storage	°C	÷ 40 to + 70	

		435470 / 435482 BF 55 ON/OFF HF 400V3 50 Hz	435544 / 435546 BF 55 ON/OFF HF 400V3 60 Hz
Ambient humidity, operation	% RH	10 - 95	
Protection class	IP	IP 65	
Fan noise, outside (2 m, 45 degrees)	dB (A)	76	79
Shipment			
Fan housing crated HxWxD	mm	1586x706x660	
Fan motor crated HxWxD	mm	280x225x380	
Impeller crated HxWxD	mm	748x270x130	
Mounting parts crated HxWxD	mm	550x155x145	
Fan housing weight	g	69750 / 118500	
Cone weight	g	18460	
Fan motor weight	g	35600	
Impeller weight	g	7689	5641
Mounting parts weight	g	3969	

*Before start-up, ensure that snow and ice are removed from the cone and all moving parts.

3.7.1 ErP/Ecodesign BF 55 ON/OFF HF 400V3

Fan type		BF 55 ON/OFF HF 400V3 50 Hz	BF 55 ON/OFF HF 400V3 60 Hz
Ecodesign		ErP 2015 (40)	
Efficiency classification	N	47.9	48.2
Efficiency (η)	%	44.2	44.4
Measurement setup		A	
Fan efficiency		Static	
VSD required		No	
Year of production		2022	2023
Name of manufacturer		SKOV A/S	
Item number		435470 / 435482	435544 / 435546
Motor power input	W	2521.4	2533.05
Flow rate	m ³ /s	11.15	9.37
Optimum pressure	Pa	99.8	120
Revolutions per minute	RPM	576	692
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		-	

3.8 BF 55 ON/OFF LE 230V3 / BF 55 ON/OFF HF 230V3

		435534 / 435535 BF 55 ON/OFF LE 230V3	435543 / 435545 BF 55 ON/OFF HF 230V3
Electrical			
Rated voltage	V AC	230 +/-10%	
Operating voltage	V AC	207 – 253	
Frequency	Hz	60	
Max. current consumption At 230 V AC supply	A	5.7	8.1
Max. input power (P1)	W	1609	2646
Max. power (P2) shaft	W	2000	
Efficiency motor [η]	%	81.1	
CosPhi [Φ]	Factor	0.79	
Motor protection thermal cutout (PTO)		-	
Mechanical			
Cable length	m	4	
Impeller diameter	mm	1400	
Number of fan blades	pcs.	3	
Fan blade pitch	°	41	28
Fan output			
Revolutions (rated current) per minute	RPM	695	
Air output at -0 Pa	m³/h	51200	61700
Air output at -10 Pa	m³/h	48700	59600
Air output at -20 Pa	m³/h	46300	57400
Air output at -30 Pa	m³/h	44000	55300
Air output at -40 Pa	m³/h	41800	53300
Air output at -50 Pa	m³/h	39400	51200
Air output at -60 Pa	m³/h	37200	49100
Air output at -70 Pa	m³/h	34100	46900
Air output at -80 Pa	m³/h	30900	44600
Air output at -90 Pa	m³/h	-	42400
Air output at -100 Pa	m³/h	-	39900
Power consumption at -10 Pa	W	1346	1960
Specific output at -10 Pa	m³/kWh	36200	30400
Specific energy at -10 Pa	Watt/ 1000 m³/ h	28	33
Testing body		SKOV A/S	
Environment			
*Temperature, operation	°C	0 to + 40	
Temperature, storage	°C	÷ 40 to + 70	

		435534 / 435535 BF 55 ON/OFF LE 230V3	435543 / 435545 BF 55 ON/OFF HF 230V3
Ambient humidity, operation	% RH	10 - 95	
Protection class	IP	IP 65	
Fan noise, outside (2 m, 45 degrees)	dB (A)	77	79
Shipment			
Fan housing crated HxWxD	mm	1586x706x660	
Fan motor crated HxWxD	mm	280x225x380	
Impeller crated HxWxD	mm	748x270x130	
Mounting parts crated HxWxD	mm	550x155x145	
Fan housing weight	g	69750 / 118500	
Cone weight	g	18460	
Fan motor weight	g	35600	
Impeller weight	g	5641	
Mounting parts weight	g	3969	

*Before start-up, ensure that snow and ice are removed from the cone and all moving parts.

3.8.1 ErP/Ecodesign BF 55 ON/OFF LE 230V3 / BF 55 ON/OFF HF 230V3

Fan type		BF 55 ON/OFF LE 230V3	BF 55 ON/OFF HF 230V3
Ecodesign		ErP 2015 (40)	
Efficiency classification	N	52.1	47.9
Efficiency (η)	%	47.0	44.2
Measurement setup		A	
Fan efficiency		Static	
VSD required		No	
Year of production		2023	
Name of manufacturer		SKOV A/S	
Item number		435534 / 435535	435543 / 435545
Motor power input	W	1558.3	2621.34
Flow rate	m ³ /s	7.33	9.67
Optimum pressure	Pa	99.8	119.9
Revolutions per minute	RPM	706	690
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		-	

3.9 Actuator

		Actuator
Electrical		
Rated voltage	V DC	24
Operating voltage	V DC	14 - 28
Max. current consumption at 24 V DC power supply	A	1
Max. idle current	mA	50
Number of actuators on a power supply 24V 2.1/4.2A*	pcs.	4
Number of actuators on DOL 278A medium 24V, 4,2A	pcs.	4
Number of actuators on DOL 278A large 24V, 8A	pcs.	8
Number of actuators on DOL 278A X large 24V, 10A	pcs.	10
Mechanical		
Cable length	m	3.2
Running time unloaded at 24 V DC	sec.	12
Running time max. load at 24 V DC	sec.	15
Torque	N	300
Environment		
Temperature, operation	°C	+ 40 to + 40
Temperature, storage	°C	+ 40 to + 70
Ambient humidity, operation	% RH	10 - 95
Protection class	IP	IP 65
Shipment		
Shipping weight	g	3525

*Max. current consumption on the power supply:

Constant = 2.1 A

Short time = 4.2 A (max. 3 min. - followed by 57 min. at max. 2.1 A)

Short time = 4.2 A (max. 30 sec. - followed by 10 sec. at max. 2.1 A)

3.10 Number of wall fans in a container

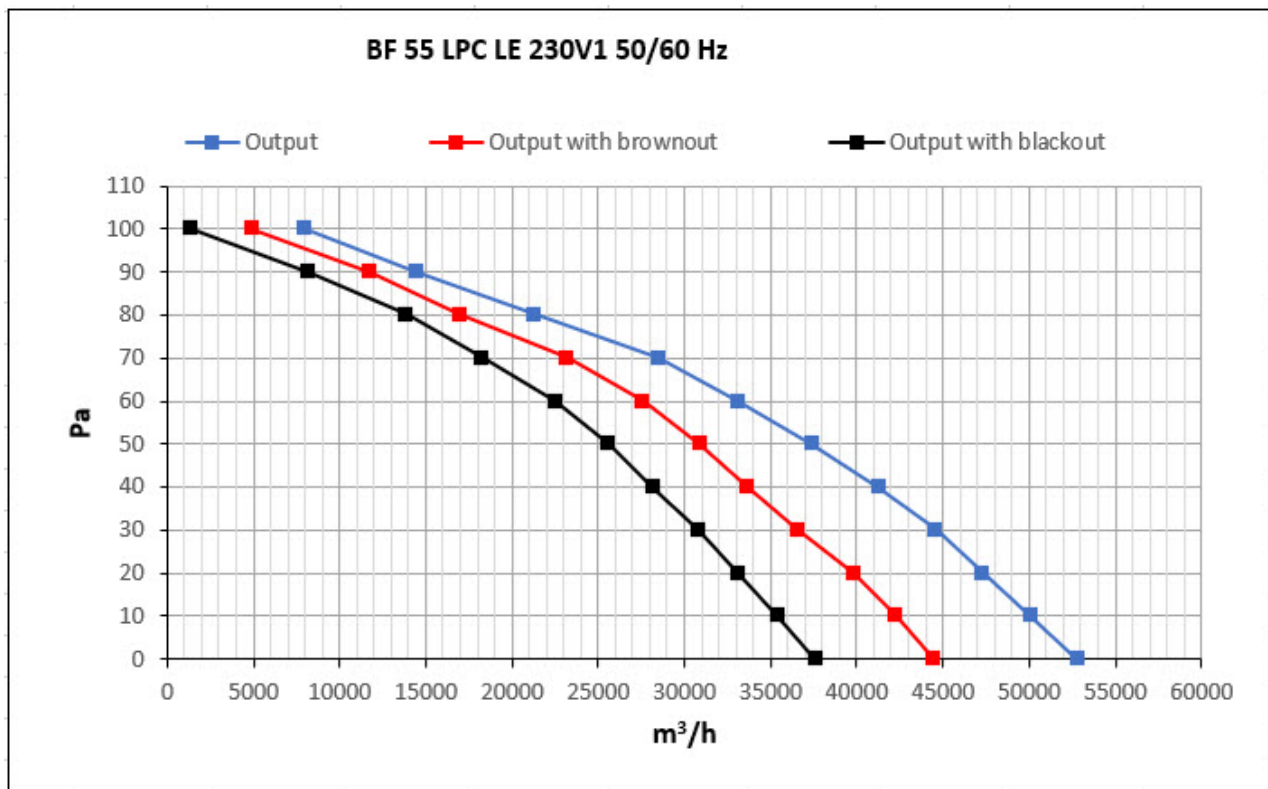
Type	Number in a 40' HC container
LPC fans (2 pcs. variants)	60
ON/OFF fans (2 pcs. variants)	66

In the number of fans does not include accessories (e.g. insulation plates, light traps etc.)

3.11 Performance diagrams

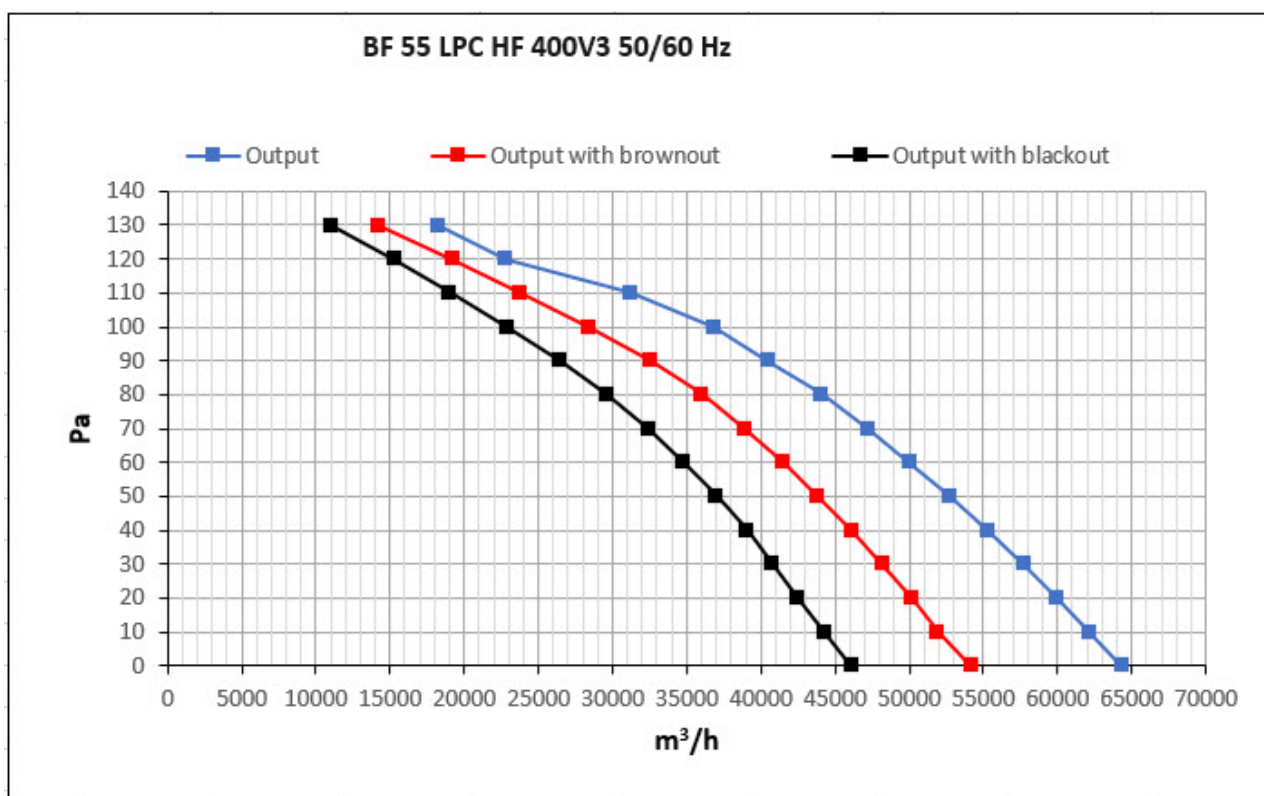
3.11.1 BF 55 LPC LE 230V1

BF 55 LPC LE 230V1 fans should not be used for negative pressure higher than 80 Pa.



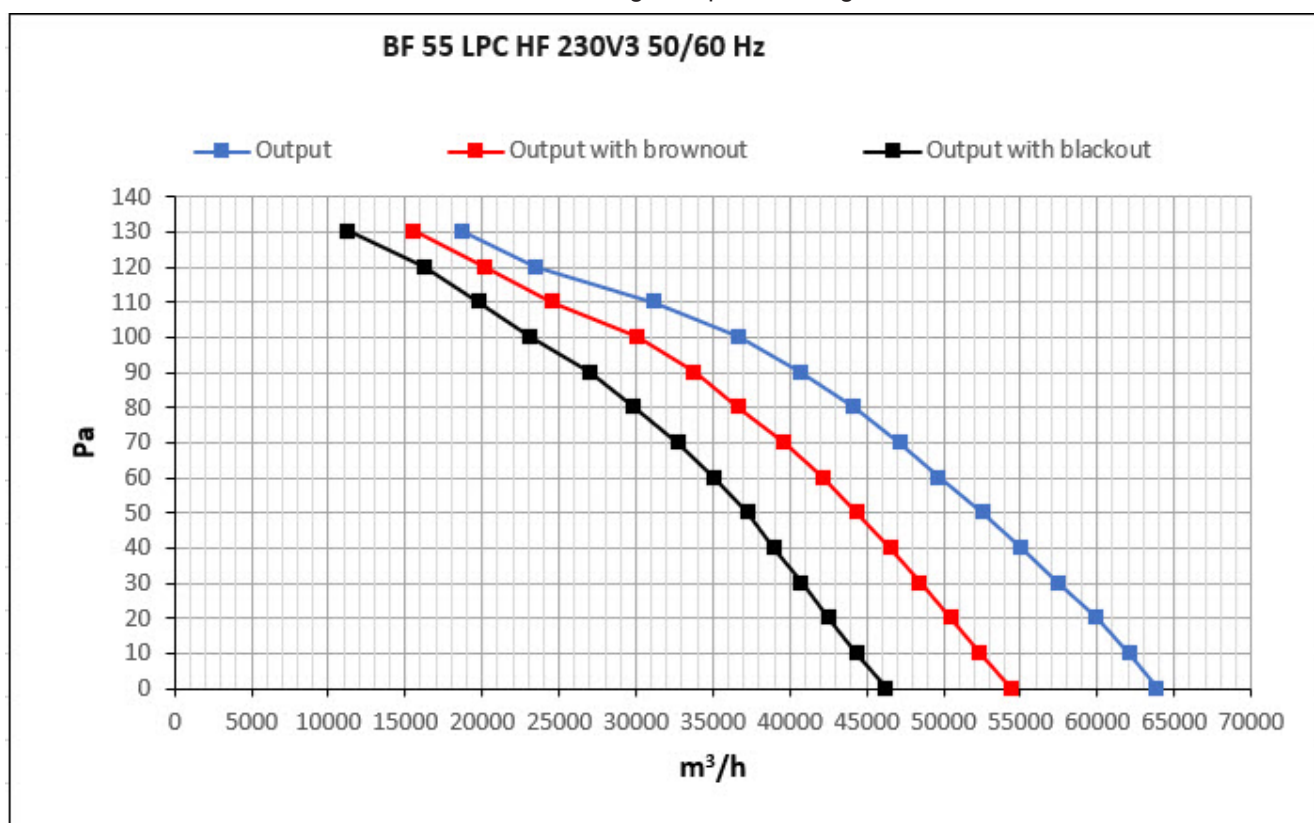
3.11.2 BF 55 LPC HF 400V3

BF 55 LPC HF 400V3 fans should not be used for negative pressure higher than 100 Pa.



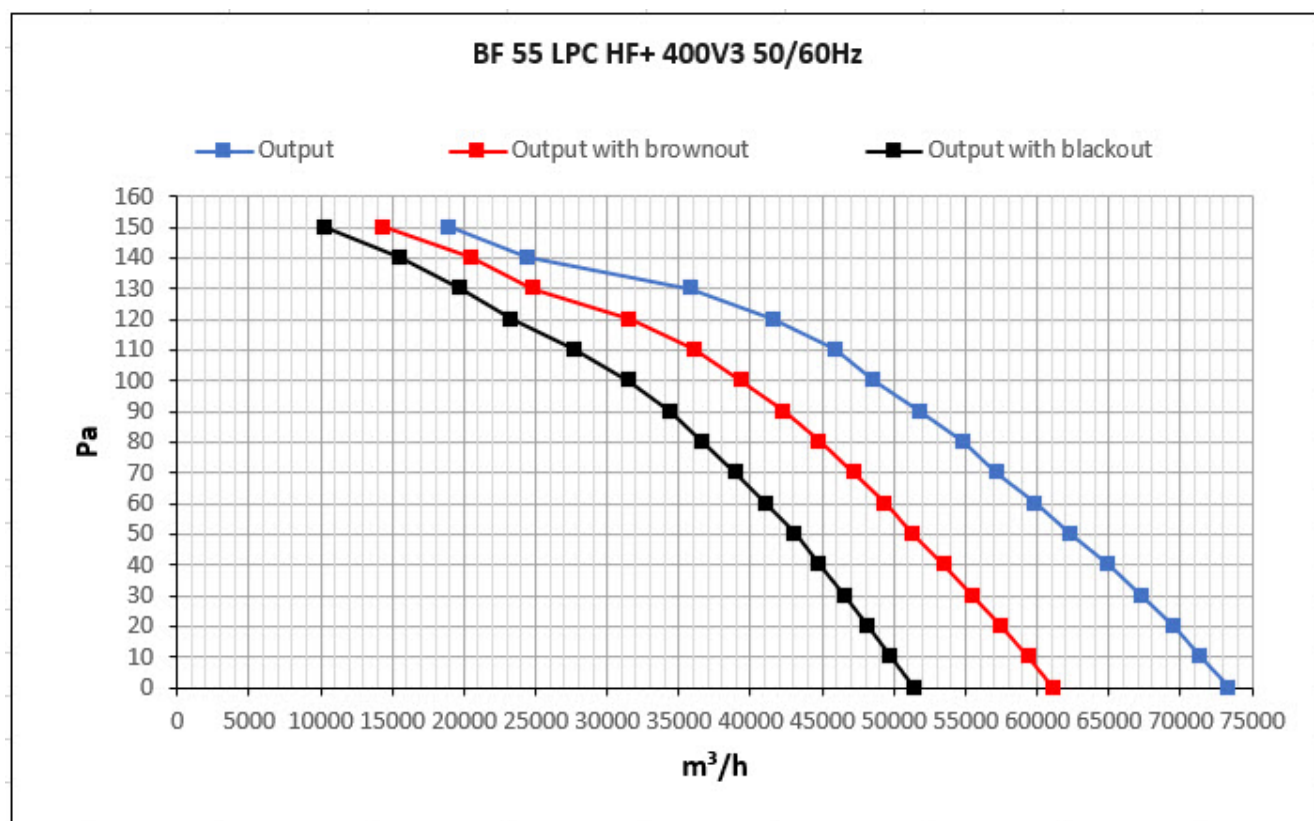
3.11.3 BF 55 LPC HF 230V3

BF 55 LPC HF 230V3 fans should not be used for negative pressure higher than 100 Pa.



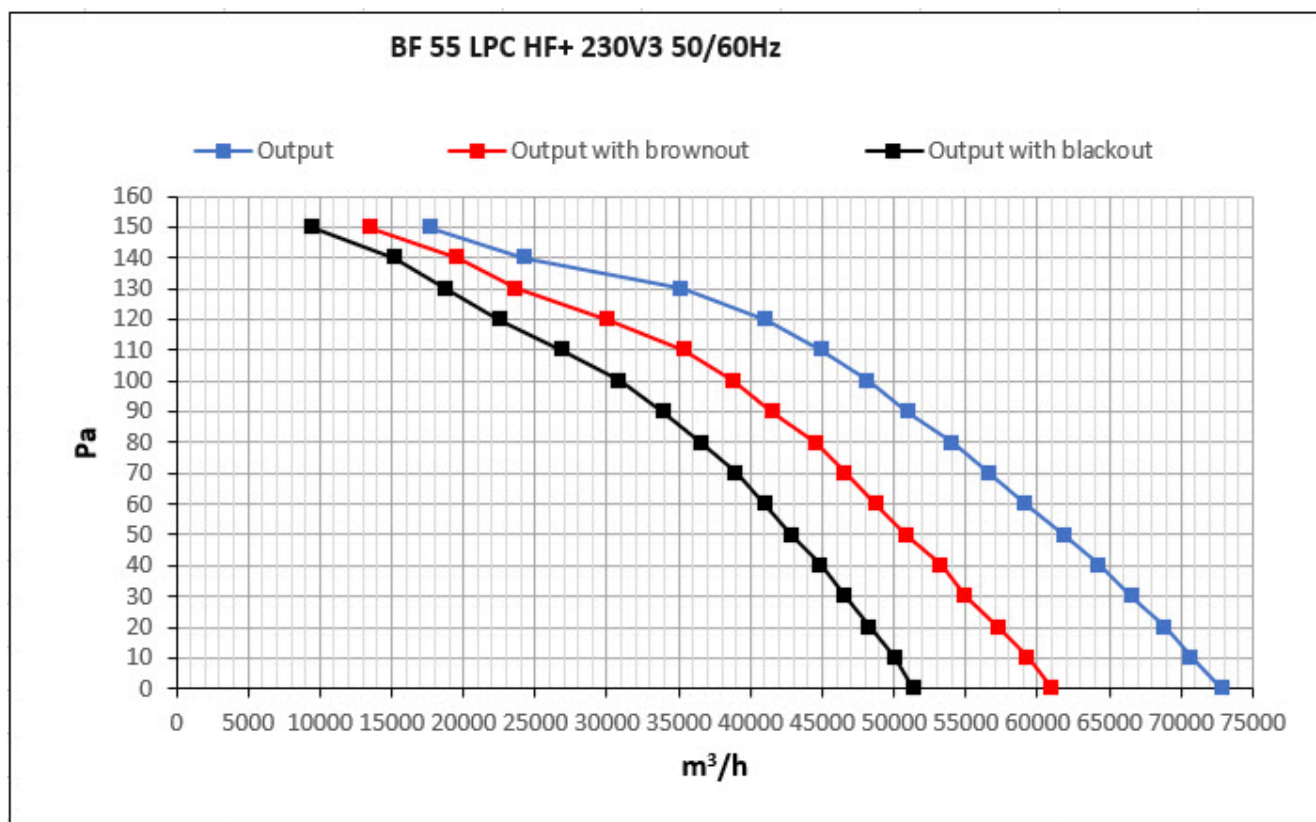
3.11.4 BF 55 LPC HF+ 400V3

BF 55 LPC HF+ 400V3 fans should not be used for negative pressure higher than 120 Pa.



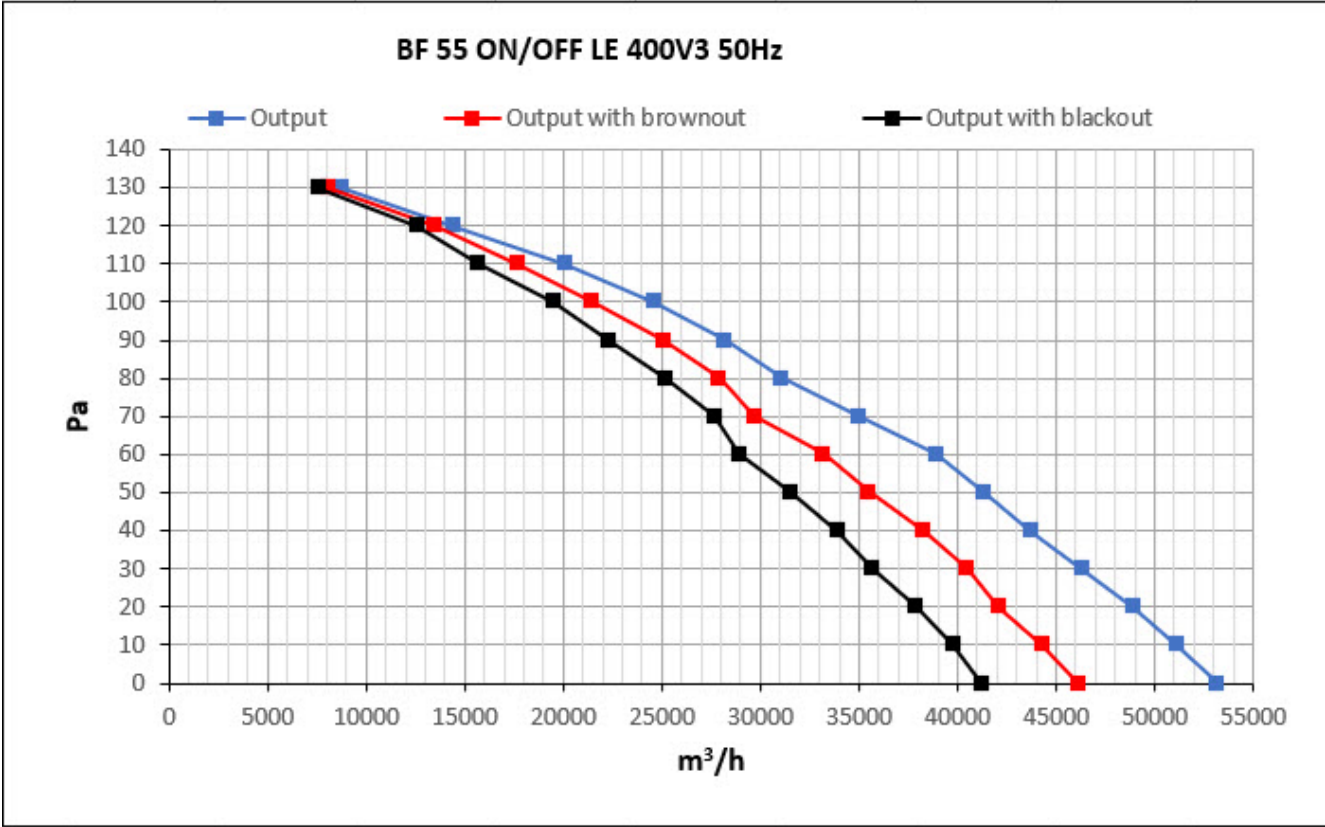
3.11.5 BF 55 LPC HF+ 230V3

BF 55 LPC HF+ 230V3 fans should not be used for negative pressure higher than 120 Pa.

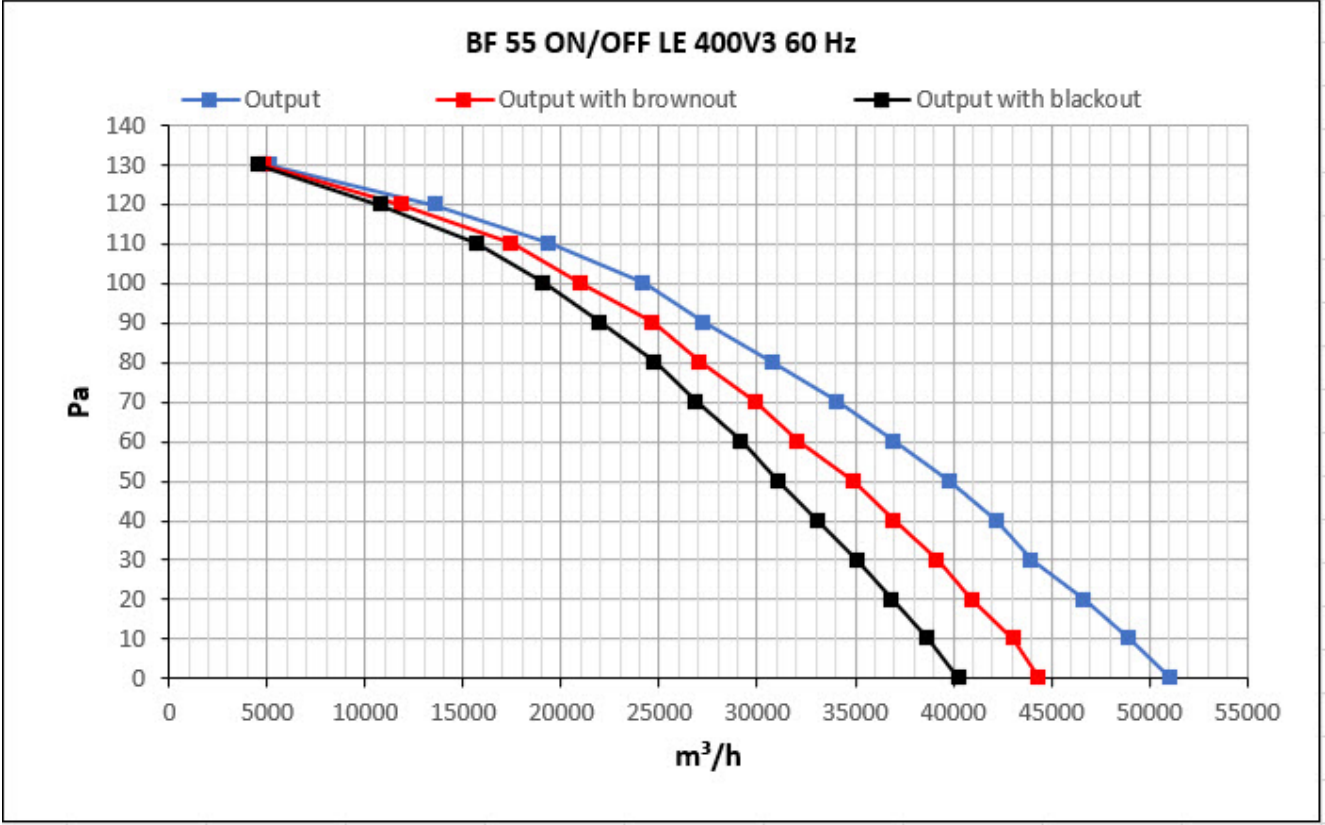


3.11.6 BF 55 ON/OFF LE 400V3

BF 55 ON/OFF LE 400V3 fans should not be used for negative pressure higher than 80 Pa.

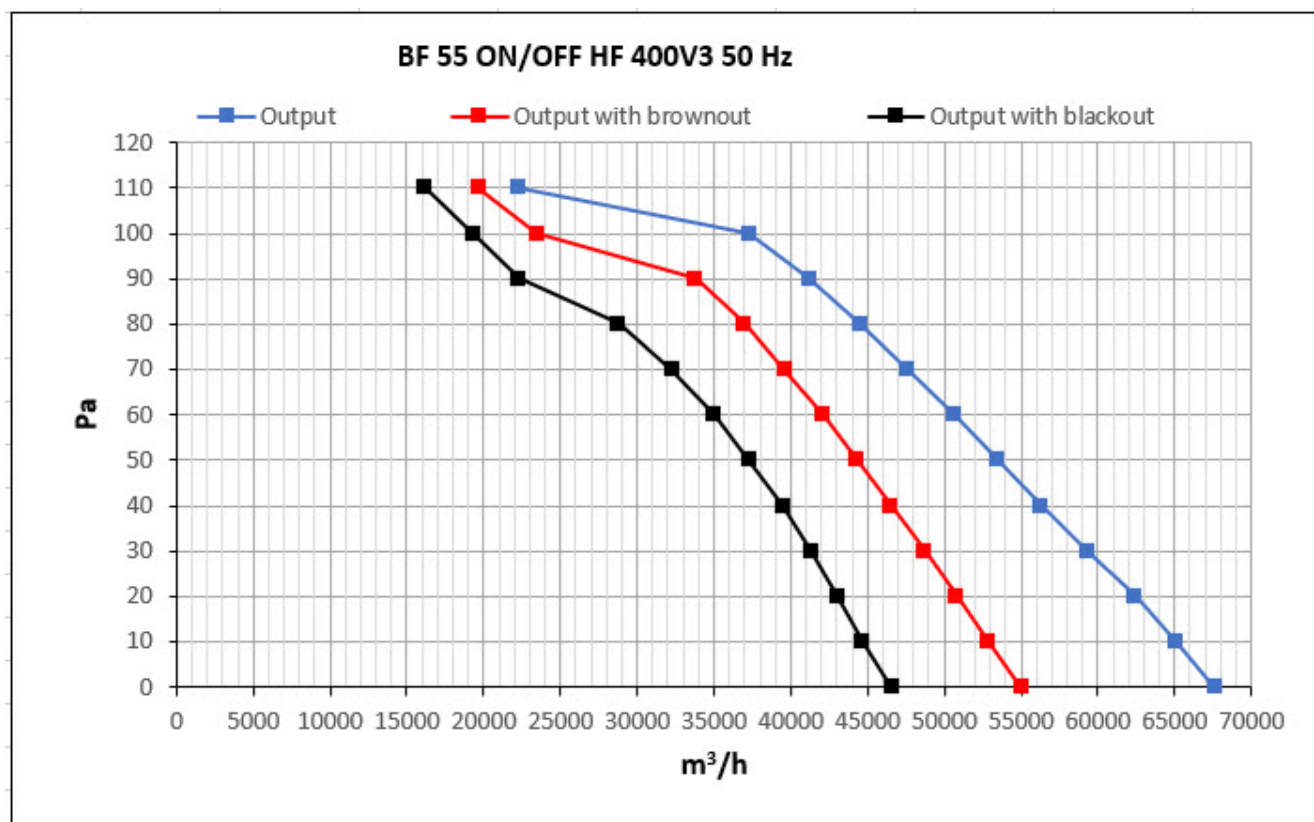


BF 55 ON/OFF LE 400V3 fans should not be used for negative pressure higher than 80 Pa.



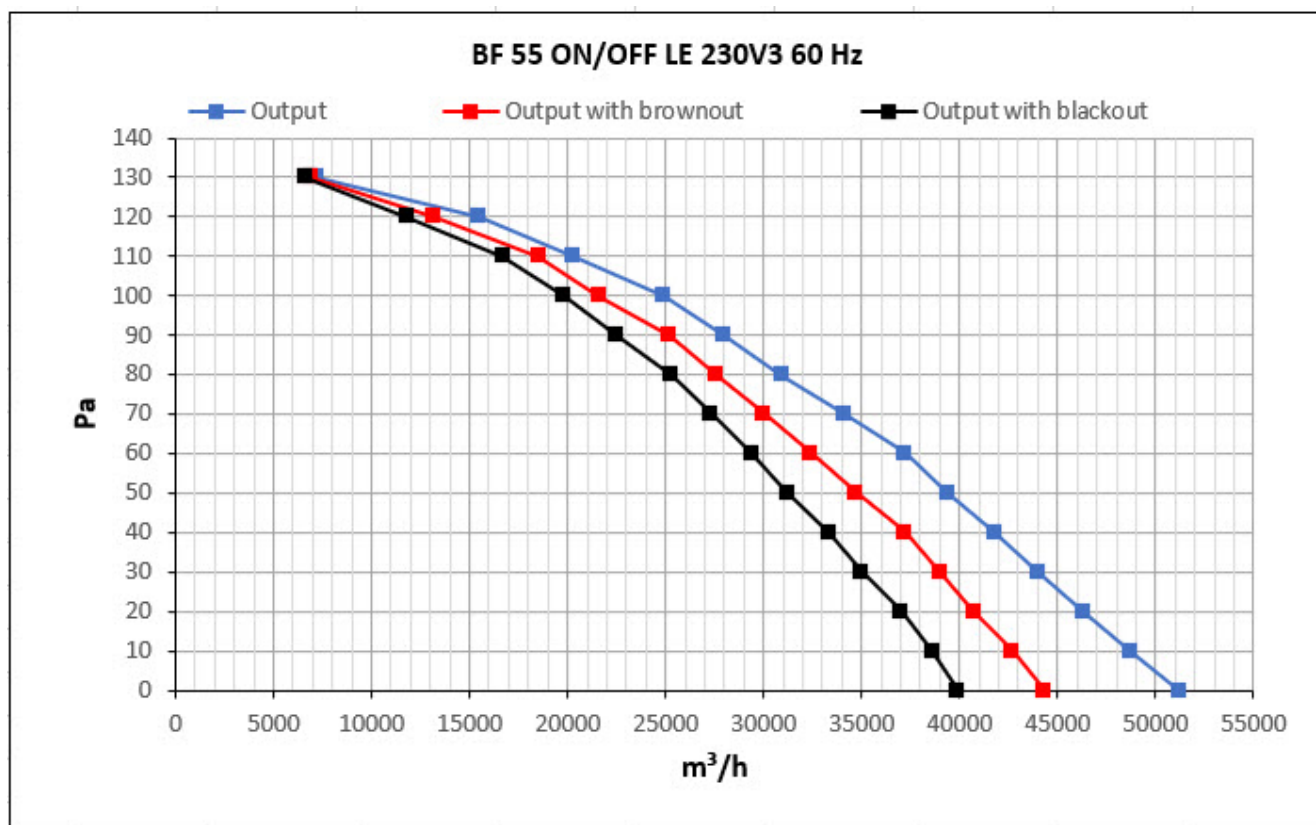
3.11.7 BF 55 ON/OFF HF 400V3

BF 55 ON/OFF HF 400V3 fans should not be used for negative pressure higher than 100 Pa.



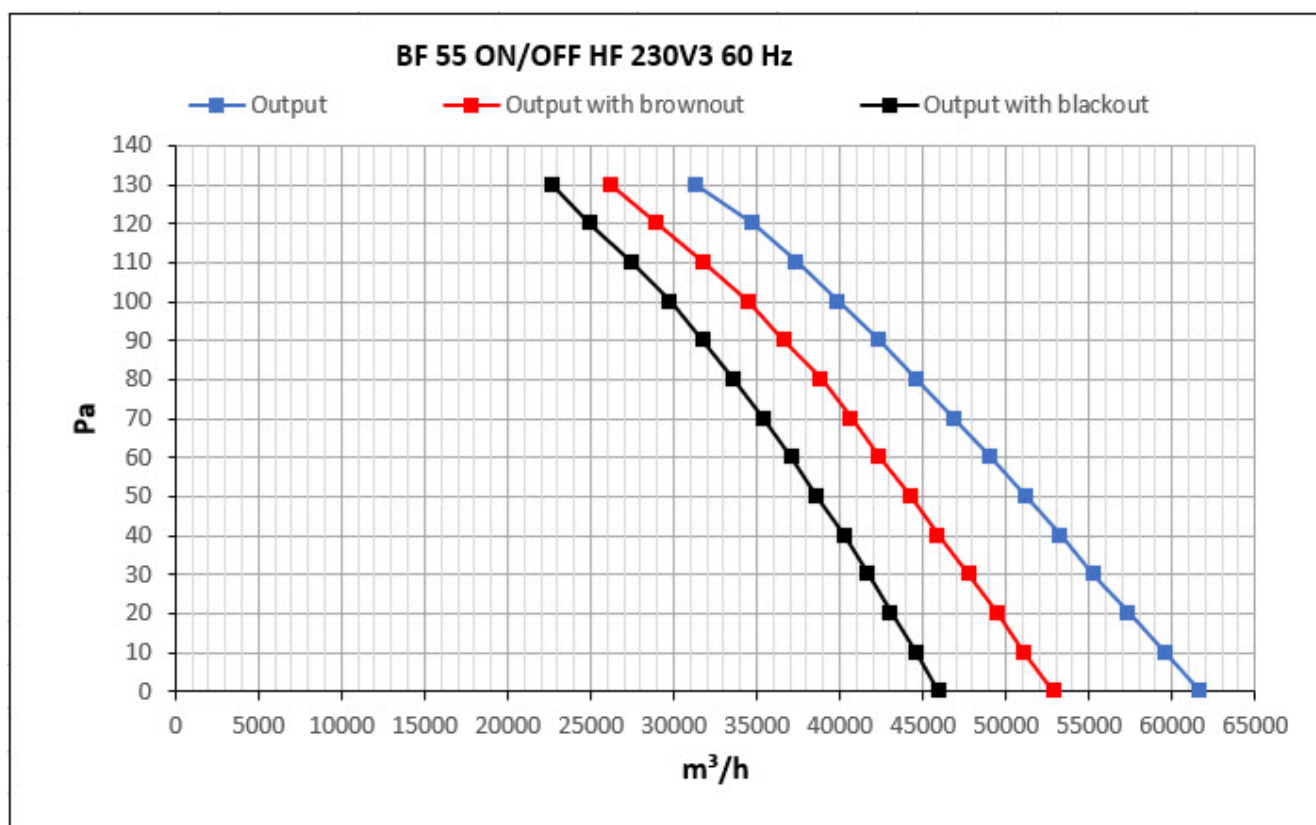
3.11.8 BF 55 ON/OFF LE 230V3

BF 55 ON/OFF LE 230V3 fans should not be used for negative pressure higher than 80 Pa.



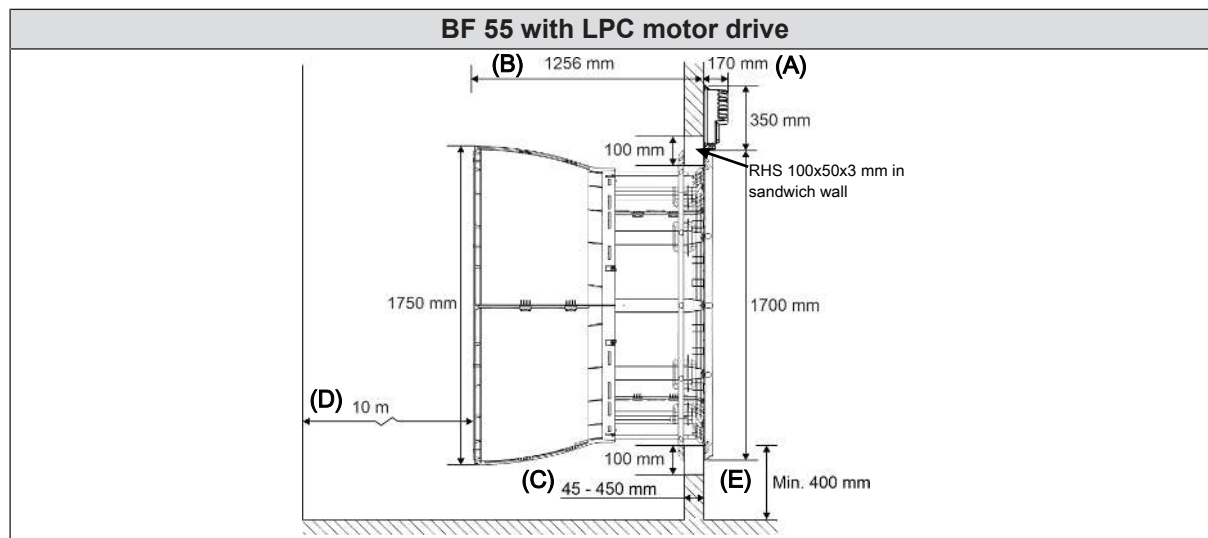
3.11.9 BF 55 ON/OFF HF 230V3

BF 55 ON/OFF HF 230V3 fans should not be used for negative pressure higher than 100 Pa.

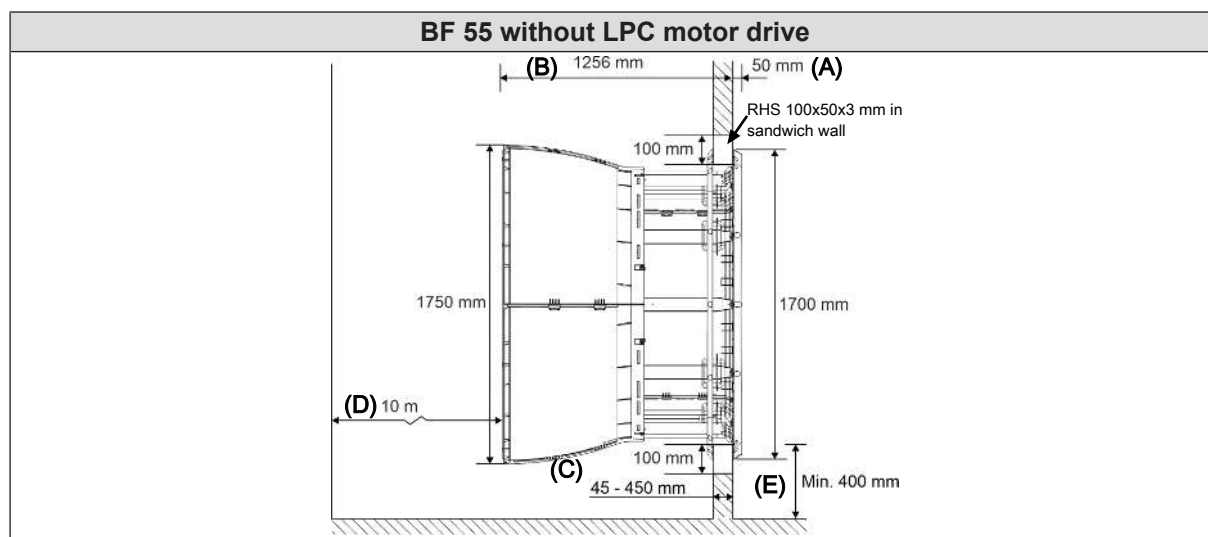


3.12 Dimensioned sketch

3.12.1 Wall fan with LPC motor drive



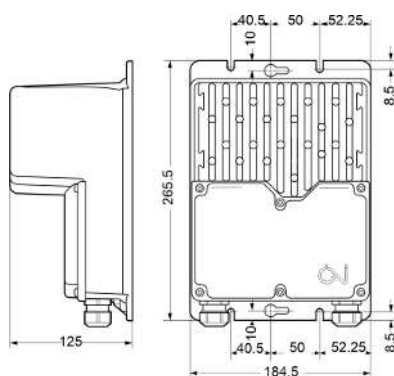
3.12.2 Wall fan



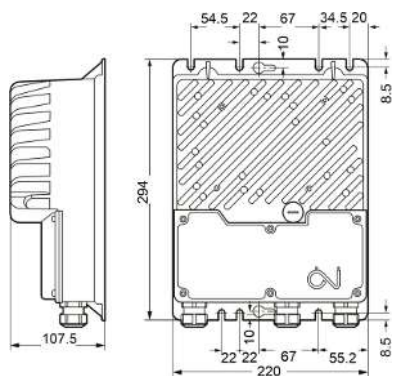
3.12.3 LPC motor drive.

Dimensions in mm.

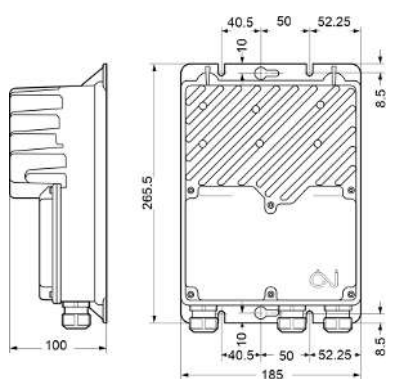
LPC motor drive 1x230 V



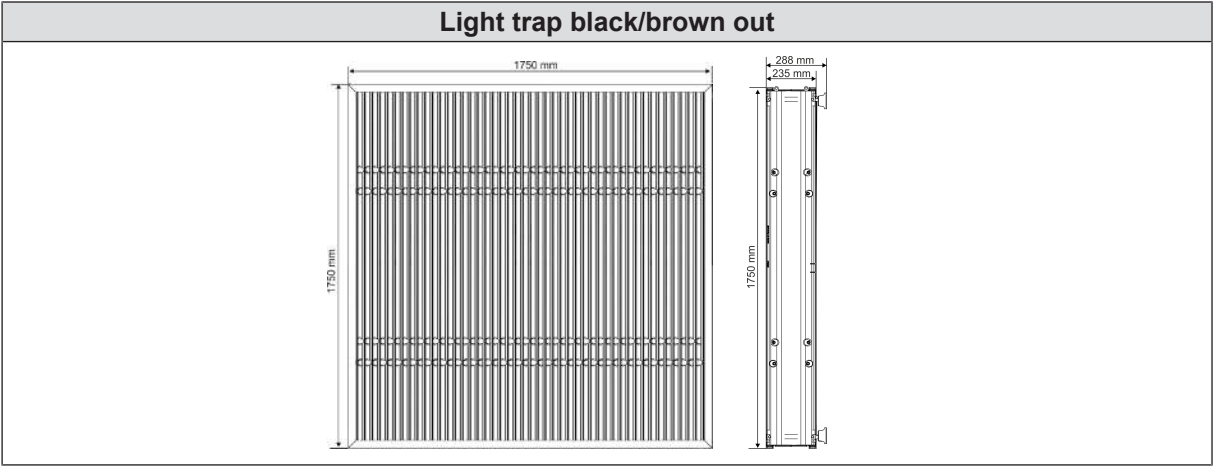
LPC motor drive 3x230 V



LPC motor drive 3x400 V



3.12.4 Light trap



SKOV A/S • Hedelund 4 • Glyngøre • DK-7870 Roslev
Tel. +45 72 17 55 55 • www.skov.com • E-mail: skov@skov.dk

