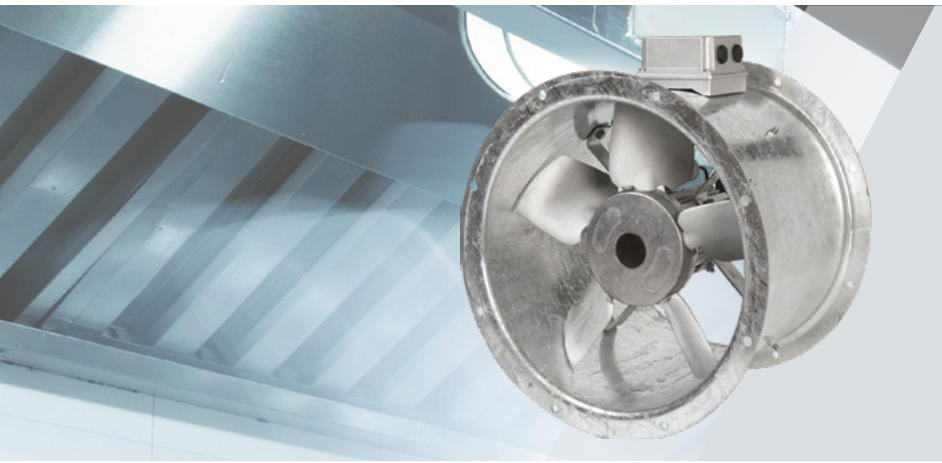
WOODS

MAXFAN COMPAC CATALOGUE



Application Support:
Kitchen Supply / Extract Fans



JM AEROFOIL

The highest air volumes/performance in its class suitable for low to medium pressures, 2 pole and 2 stage variants available for high pressures. Suitable for both internal and external installation as standard, manufactured using mild steel and hot dipped galvanised finish to give high resistance to corrosion, suitable for speed control for on demand ventilation, easy installation & maintenance.

PLATE FANS

Our JM Platemounted fan features an aluminium adjustable fixed pitch impeller manufactured for greater performance. Available in sizes 315 to 1000mm in diameter it is suitable where low pressures and high air volumes are required.



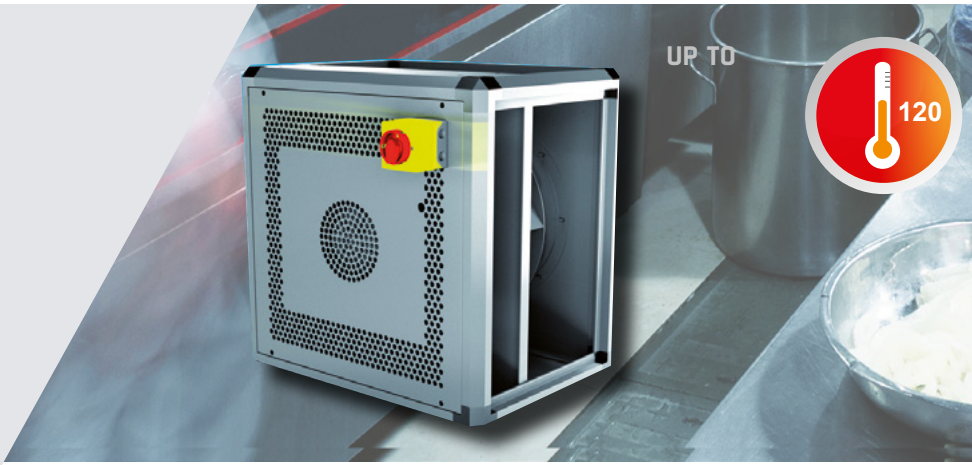


MAXFAN²

Our high pressure MaXfan is suitable for both Internal and external Installation, manufactured using mild steel and hot dipped galvanised finish to give high resistance to corrosion, suitable for speed control, easy Installation & maintenance.

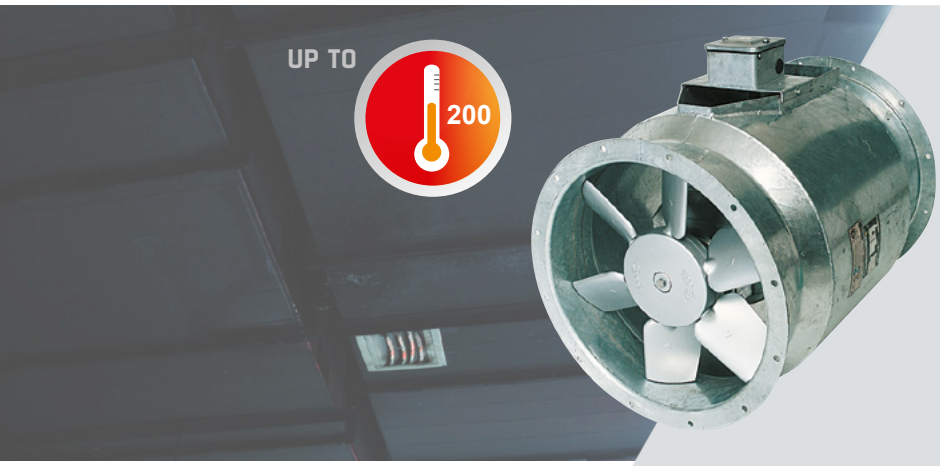
ESTOC TARGE

The Estoc Targe is available in the same range of sizes as the ePowerBox, and covers duties up to 5.8^3/s flow rate and 1450Pa. Available in both AC or EC in 230v single phase or 400v three phase dependant on unit size.



EXTRACT AND SUPPLY SOLUTIONS OPTIMISING VENTILATION FOR COMMERCIAL KITCHEN APPLICATIONS

Whether your requirement is for a small takeaway shop or a large restaurant Woods have the solution within our extensive portfolio of supply & extract fans. We understand the importance of ventilation systems for a safe and comfortable kitchen environment which is why our solutions incorporate a variety of features inluding **removal of day to day smells, smoke extract, high temperature operation, fully speed controllable, option with the motor located out of air stream.** All with a robust and reliable construction.



JM BIFURCATED

High quality fan designed to withstand continuous hot temperatures and with a protected motor that does not get exposed to any particles within the airstream. The bifurcated fan can withtand continous temperatures of 200°C, ideal for solid fuel cooking applications. Available in both 230V single phase and 400V three phase dependant on unit size.

KATANA EC

Our highly adaptable kitchen extract and supply box unit offering an efficient performance and highly reliable robust construction. Available in six standard sizes covering a flow range up to 3.3 m^3/s and system pressures up to 877Pa.





MAXFAN COMPAC

The MaXfan Compac has been designed for kitchen canopy systems fan offers you high performance, full inverter control, operating temperature up to 80°C dependant on fan size, easy installation & maintenance, compact robust lightweight design. Available in a range of sizes from 315 - 630mm.

ePOWERBOX

Suitable for medium to higher air flow volumes against high pressures in ventilation systems, speed is 100% infinitely variable, low noise levels with acoustic insulation, manufactured using galvanised sheet steel. Can be installed in axial orientation or any 90° discharge.

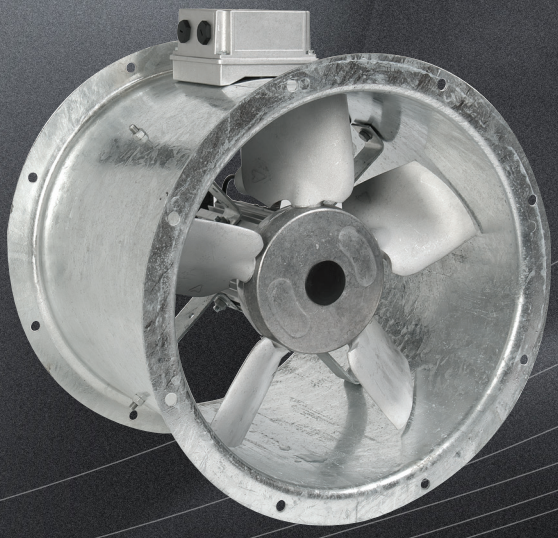


INTRODUCING THE MAXFAN COMPAC

THE NEW MAXFAN COMPAC DESIGNED FOR THE KITCHEN CANOPY MARKET OFFERING HIGH PRESSURE & PERFORMANCE, WITH QUALITY YOU CAN TRUST.....

The MaXfan Compac reinforces the high quality products that Fläkt Woods has provided over the years. The MaXfan Compac fan offers you; High Performance, Full Inverter Control, Operating temperature up to 80°C*, Easy Installation & Maintenance, Comparable noise levels, Compact robust lightweight design, DW172 Compliance and is available in stock for next day delivery.

The MaXfan Compac has been developed with our customers in mind, looking after you is our priority. Fläkt Woods incorporates the Woods Range of Distribution fans, your number 1 supplier of ventilation equipment in the UK.



+



THE PERFECT COMBINATION

*dependent on the fan size, please refer to the specific fan technical page

HIGH PERFORMANCE CASED AXIAL
MAXFAN COMPAC

PRODUCT FACTS

- Volumes up to 4.9m³/s
- Static Pressures up to 900 Pa (Non-stalling characteristic)
- Fans tested to ISO5801 and BS848
- High efficiency energy saving IE2 motor
- Low breakout noise levels
- Motor protection and terminal block IP55 (DW172 & Defra Compliant)
- Ambient temperatures up to 80°C (dependent on size)
- Overheat protection as standard
- Compact robust light weight construction
- Galvanised casing for high corrosion resistance
- Full inverter control and flexibility

ELECTRICAL SUPPLY

230v/50Hz/1 Ph (3 Ph Motor) - L Type

TEMPERATURE RANGE

Suitable for temperatures up to 80°C*

*dependent on the fan size, please refer to the specific fan technical page.

SIZES

315, 355, 400, 450, 500, 560 and 630 mm

IMPELLERS

A unique high efficiency aerofoil section blade with a smoothed hub and clamp plate offers a high efficiency solution.

The Fläkt Woods impellers are all high pressure die cast to offer thin aerofoil sections for low generation of noise. Every cast aluminium component is X-ray examined using Real Time Radiography inspection prior to assembly. The maximum pitch angles shown allow for speed control by frequency inverter.

MOTORS

All motors are totally enclosed air stream rated with class F insulation. Constructed from aluminium or cast iron as standard with special pad mounted fixings. Although this product incorporates a three phase electric motor, by using a matched inverter solution it is suitable for use with a single phase electrical supply on site. In addition, using a frequency inverter allows the speed to be turned down to 20% of maximum speed. Suitable for horizontal or vertical shaft operation. Supplied IP55, with removable drain plugs.

Sealed for life bearings lubricated with wide temperature range grease. The complete range of motors are fitted with Thermistor OHP as standard. Motors are IE2 efficiency class as standard.



CASING

The MaXfan Compac is available with a galvanised casing, complete with an externally mounted pre-wired electrical terminal box. Casings are spun from sheet steel with integral pre-drilled and radiused inlet flanges. The galvanised finish gives a high resistance to corrosion and is ideal for external as well as internal use.

PRODUCT CODE

40 MaXfan Compac

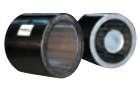
- 40 - denotes the fan impeller diameter in centimetres


Mounting Feet


Rubber AV's


Flexible Connector & Clips


0-10v Potentiometer


Silencer B1D/B2D Standard & Melinex


Matching Flange

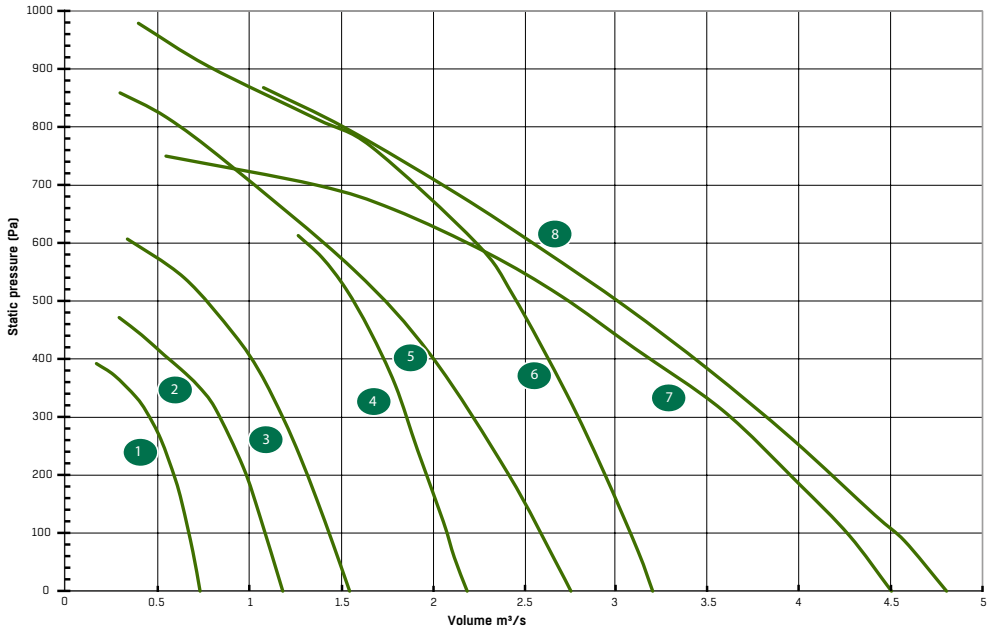

Damper


Acoustic Jacket

Specifications are subject to alteration without notice

MAXFAN COMPAC PRODUCT PERFORMANCE & ELECTRICAL DATA

220-240V/50HZ/1ϕ L TYPE
PERFORMANCE CHART



PERFORMANCE TABLE

Ref	Part Number	Fan Description	m³/s @ Pa (Static)										
			0	50	100	200	300	400	500	600	700	800	900
1	**EJ313266**	**31 MaXfan Compac**	**0.74**	**0.71**	**0.68**	**0.59**	**0.46**						
2	**EJ353266**	**35 MaXfan Compac**	**1.19**	**1.14**	**1.09**	**0.99**	**0.85**	**0.57**					
3	**EJ413456**	**40 MaXfan Compac**	**1.55**	**1.49**	**1.44**	**1.31**	**1.18**	**1.02**	**0.78**	**0.41**			
4	**EJ463266**	**45 MaXfan Compac**	**2.19**	**2.14**	**2.07**	**1.98**	**1.87**	**1.74**	**1.58**	**1.33**	**0.89**	**0.6**	**0.35**
5	**EJ513255**	**50 SC MaXfan Compac**	**2.77**	**2.67**	**2.59**	**2.42**	**2.23**	**1.99**	**1.72**	**1.4**	**1.04**	**0.61**	
6	**EJ513266**	**50 MaXfan Compac**	**3.21**	**3.15**	**3.09**	**2.97**	**2.78**	**2.64**	**2.47**	**2.25**	**2.00**	**1.48**	**0.81**
7	**EJ563236**	**56 MaXfan Compac**	**4.54**	**4.4**	**4.22**	**3.96**	**3.62**	**3.24**	**2.78**	**2.25**	**1.33**		
8	**EJ623236**	**63 MaXfan Compac**	**4.87**	**4.66**	**4.52**	**4.19**	**3.81**	**3.44**	**3.00**	**2.51**	**2.1**	**1.53**	**0.79**

PRODUCT AND ELECTRICAL TABLE

Ref	Part Number	Fan Description	Temperature (°C)	Frame	kW	Max Input Amps	FLC (A)	SC (A)	Phase	Voltage	Inverter Model	Wiring Diagram	Breakout Sound Level dB(A) @ 3m	Fan Weight (kg)	Casing Length (mm)
1	**EJ313266**	**31 MaXfan Compac**	**80**	**80**	**0.9**	**11.6**	**3.3**	**18.7**	**1**	**230**	**4.2**	**CD3042**	**45**	**33**	**375**
2	**EJ353266**	**35 MaXfan Compac**	**80**	**80**	**0.9**	**11.6**	**3.3**	**18.7**	**1**	**230**	**4.2**	**CD3042**	**45**	**33**	**375**
3	**EJ413456**	**40 MaXfan Compac**	**80**	**80**	**1.32**	**18.7**	**5.1**	**25.5**	**1**	**230**	**6.8**	**CD3042**	**40**	**35**	**375**
4	**EJ463266**	**45 MaXfan Compac**	**55**	**80**	**1.32**	**18.7**	**5.1**	**25.5**	**1**	**230**	**6.8**	**CD3042**	**43**	**37**	**375**
5	**EJ513255**	**50 SC MaXfan Compac**	**65**	**80**	**1.73**	**18.7**	**6.3**	**35.5**	**1**	**230**	**6.8**	**CD3042**	**49**	**32**	**375**
6	**EJ513266**	**50 MaXfan Compac**	**65**	**90**	**2.64**	**26.4**	**9.4**	**52.8**	**1**	**230**	**9.6**	**CD3042**	**48**	**51**	**520**
7	**EJ563236**	**56 MaXfan Compac**	**70**	**90**	**2.64**	**26.4**	**9.4**	**52.8**	**1**	**230**	**9.6**	**CD3042**	**48**	**55**	**520**
8	**EJ623236**	**63 MaXfan Compac**	**55**	**90**	**2.64**	**26.4**	**9.4**	**52.8**	**1**	**230**	**9.6**	**CD3042**	**50**	**61**	**520**

For ErP efficiency ratings and grades please refer to our Fan Selector for more information. For speed controllers please see pages 250-297.

Sound pressure levels quoted are at the inlet, and are average dBA at 3m distance over a sphere at the mid point at the highest angle given, under free field conditions. These are presented for comparative purposes only.

Products in **bold** are available from our UK Distributors on next day delivery, if ordered by 4pm. Please call to confirm availability on 01206 222 580.

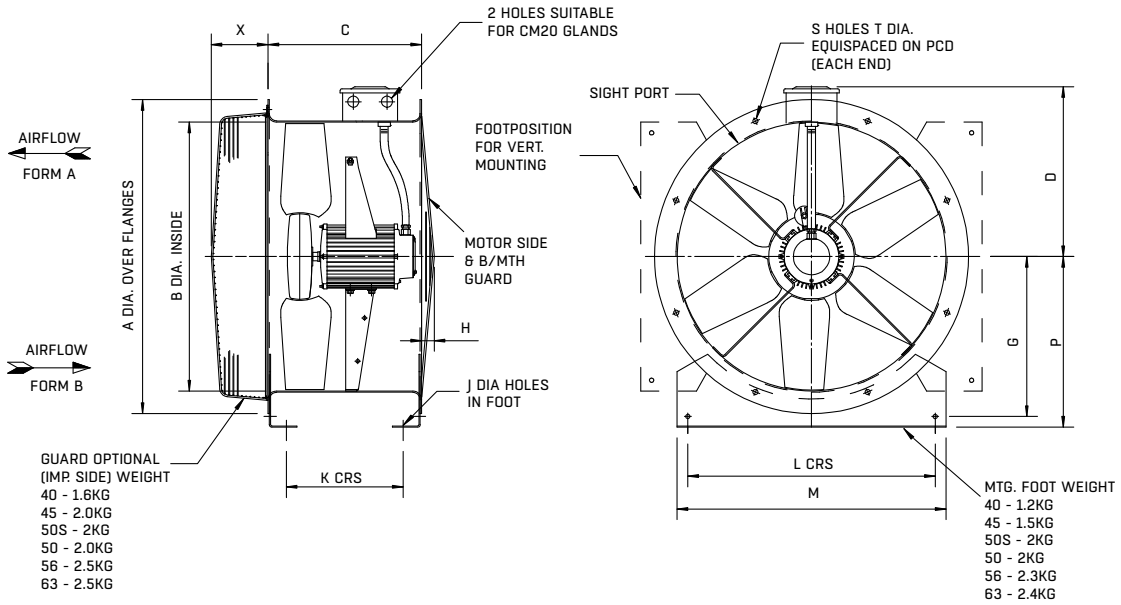
SOUND DATA - MAXFAN COMPAC

Fan Description	Ps Sound data at	Pa Static		Sound Spectrum (Hz)								Overall	
				63	125	250	500	1k	2k	4k	8k	Lw*	LpA @ 3m**
31 MaXfan Compac	0.53 m3/s	252	Inlet*	81	79	80	82	80	76	71	66	88	63
31 MaXfan Compac	0.53 m3/s	252	Outlet*	83	80	81	82	80	77	72	67	89	64
31 MaXfan Compac	0.53 m3/s	252	Breakout*	73	68	64	66	61	53	51	47	75	45
35 MaXfan Compac	0.84 m3/s	302	Inlet*	82	80	84	83	80	77	73	69	89	65
35 MaXfan Compac	0.84 m3/s	302	Outlet*	83	80	85	84	81	78	74	69	90	65
35 MaXfan Compac	0.84 m3/s	302	Breakout*	74	68	68	67	60	54	53	51	76	47
40 MaXfan Compac	1.32 m3/s	200	Inlet*	75	76	82	79	78	77	74	70	86	63
40 MaXfan Compac	1.32 m3/s	200	Outlet*	77	77	85	80	79	77	75	71	88	64
40 MaXfan Compac	1.32 m3/s	200	Breakout*	67	62	65	59	53	48	50	48	70	40
45 MaXfan Compac	1.86 m3/s	300	Inlet*	78	81	88	82	80	80	78	75	91	66
45 MaXfan Compac	1.86 m3/s	300	Outlet*	79	81	88	82	81	80	79	77	91	67
45 MaXfan Compac	1.86 m3/s	300	Breakout*	69	63	66	59	56	52	57	53	72	43
50 SC MaXfan Compac	2 m3/s	400	Inlet*	81	82	89	85	87	87	83	79	95	72
50 SC MaXfan Compac	2 m3/s	400	Outlet*	81	82	91	86	87	87	85	81	96	73
50 SC MaXfan Compac	2 m3/s	400	Breakout*	71	64	69	63	62	59	63	57	75	49
50 MaXfan Compac	2.63 m3/s	400	Inlet*	83	79	87	88	86	85	81	78	94	71
50 MaXfan Compac	2.63 m3/s	400	Outlet*	85	79	90	89	86	86	81	79	95	72
50 MaXfan Compac	2.63 m3/s	400	Breakout*	75	61	68	66	61	58	59	55	77	48
56 MaXfan Compac	3.22 m3/s	400	Inlet*	86	93	88	90	88	85	79	77	97	72
56 MaXfan Compac	3.22 m3/s	400	Outlet*	87	95	89	90	88	85	80	79	98	72
56 MaXfan Compac	3.22 m3/s	400	Breakout*	77	74	63	65	63	58	61	55	79	48
63 MaXfan Compac	3.4 m3/s	400	Inlet*	85	95	93	91	87	84	83	81	99	72
63 MaXfan Compac	3.4 m3/s	400	Outlet*	86	98	94	91	87	85	84	83	100	73
63 MaXfan Compac	3.4 m3/s	400	Breakout*	76	77	68	66	62	58	65	59	80	50

*Lw dB re 10^{-12} W

**dBA re $2x10^{-5}$ Pa

DRAWING - MAXFAN COMPAC

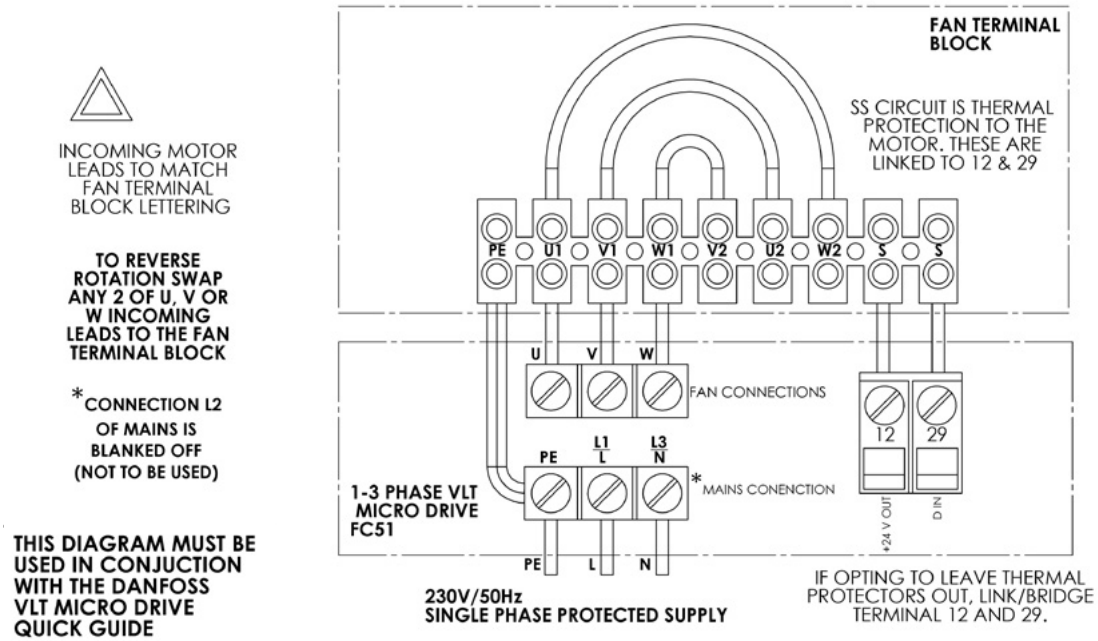


Product Code	Motor Frame	A	B	C	D	G	H	J	K	L	M	P	S	T	x	Weight (kg)
31 MaXfan Compac	80	395	315	375	229	200	30	10	285	265	315	200	8	10	137	33
35 MaXfan Compac	80	435	355	375	249	225	30	10	285	305	355	225	8	10	137	33
40 MaXfan Compac	80	480	400	375	279	225	30	10	290	350	400	250	8	12	137	35
45 MaXfan Compac	80	530	450	375	306	255	30	10	290	400	450	280	8	12	137	37
50 SC MaXfan Compac	80	594	500	375	338	290	30	10	290	450	500	315	12	12	137	32
50 MaXfan Compac	90	594	500	520	338	290	30	10	290	450	500	315	12	12	137	51
56 MaXfan Compac	90L	654	560	520	368	330	50	10	434	510	560	355	12	12	137	55
63 MaXfan Compac	90S	724	630	520	403	375	50	10	434	580	630	400	12	12	137	61

WIRING DIAGRAMS - MAXFAN COMPAC

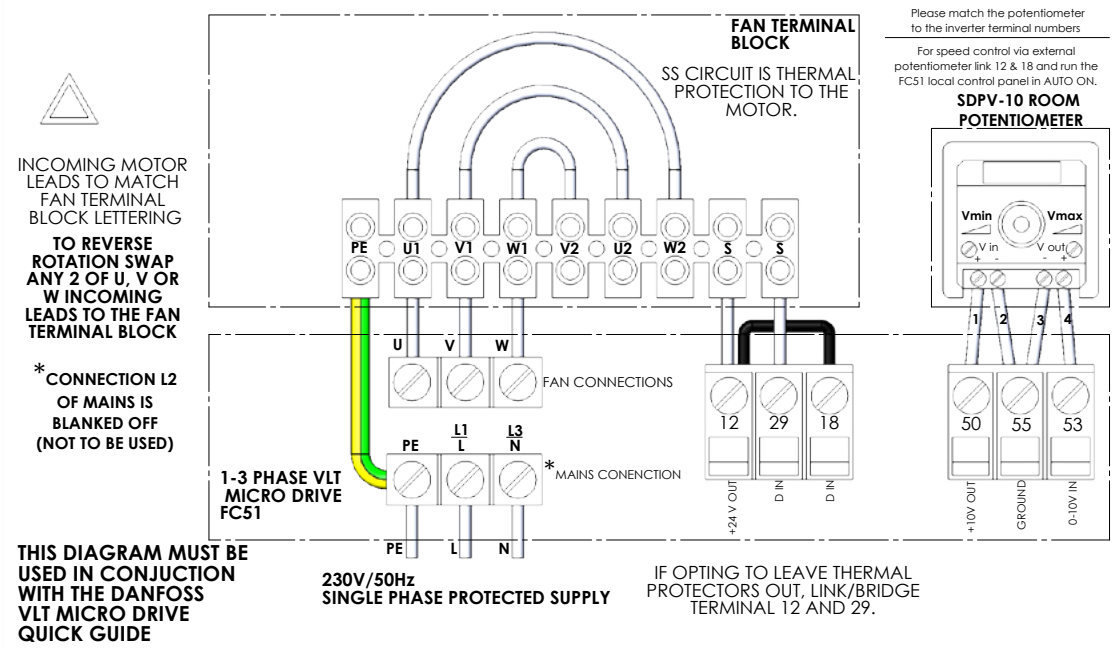
CD3042 - MAXFAN COMPAC

Mode - On hand (Speed controlled via the up and down arrows on key pad)



CD3043 - MAXFAN COMPAC INCLUDING POTENTIOMETER

Mode - Auto (Speed controlled via 0-10 volt potentionmeter)



The MaXfan Compac can also be fitted using a remote switch conntected between 12 & 18

INVERTER SINGLE TO THREE PHASE

FEATURES & BENEFITS

- 1 Ph 200-240VAC to 3 Ph 200-240 VAC electrical supply
- Pre-Programmed for easy installation
- Max shielded cable length 25m
- Asynch motor speed control
- Ultra compact & light making it easy to install
- Simple to use Alpha-numeric display
- Included fitted potentiometer for manual speed adjustment
- Connectable as Modbus RTU offering control flexibility
- Built in RFI filter minimising interference
- Built-in brake functions with built in DC and AC brake functions
- 2xAI, 1xAO & 1xRO / RS485 connection options
- BMS enable/disable
- Maximum operating ambient 50°C
- Coated PCB standard for harsh environments
- High energy efficiency



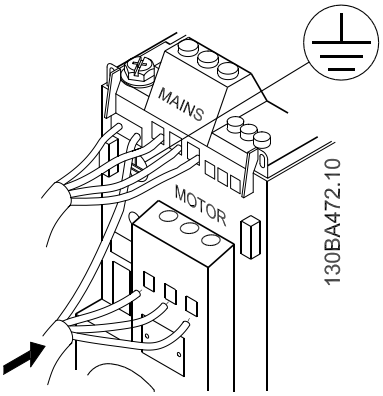
DESCRIPTION

Our inverter is a frequency converter with unsurpassed reliability, user-friendliness, condensed functionality, and extremely easy to commission. Terminal numbers are named in the same manner as in the rest of the family, making installation easy.

It converts a single phase 200-240 VAC input into a three phase output to allow the MaXfan Compac product to use a high efficiency 3Ph, 230V motor.

A safety isolator/switch disconnector should be installed on the mains side of the drive to ensure that the mains supply can be isolated for maintenance.

Please see the image below, illustrating the connections on the bottom of the inverter drive.



RANGE

There are three matched inverters that are specifically designed to use with our MaXfan Compac fan range. Details are shown below.

Part Number	Inverter Model	Ph.	V	Amps	kW	Enc.
PK901092	4.2	1-3	200-240V	4.2	0.75	M1
PK901090	6.8	1-3	200-240V	6.8	1.5	M2
PK901091	9.6	1-3	200-240V	9.6	2.2	M3

Step 1
Fit top cover on frequency converter.

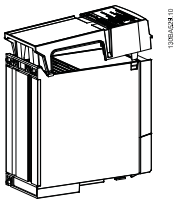


Illustration 4.14

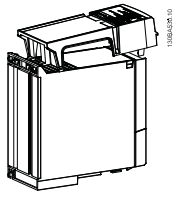


Illustration 4.15

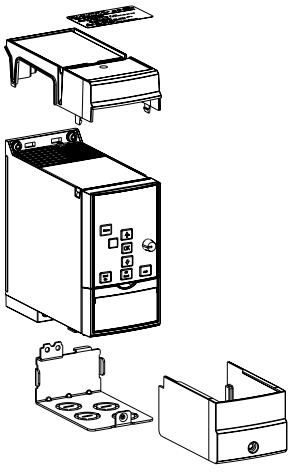


Illustration 4.16

INVERTER - QUICK INSTALLATION GUIDE



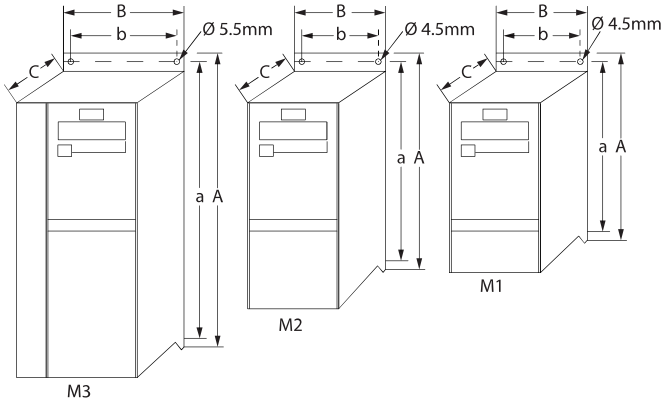
Ready – Steady – Go!

Connect motor and power cables, turn the control knob, and watch the motor speed change.



RoHS compliant
The VLT® Micro Drive does not contain lead, cadmium, hexavalent chrome, mercury, *or flame retardant PBB and PBDE.*

INVERTER - TECHNICAL & DRAWING DETAILS



Part Number	Inverter Model	Enc.	Ph.	V	Amps	kW	Power [kW]	Height [mm]	Width [mm]		Depth [mm]	Max. Weight
							1x200-240 V	A (incl. conversion kit)	B	b	C	kg
PK901092	**4.2**	**M1**	**1-3**	**200-240V**	**4.2**	**0.75**	**0.75**	**219.3**	**70**	**55**	**148**	**1.1**
PK901090	**6.8**	**M2**	**1-3**	**200-240V**	**6.8**	**1.5**	**1.5**	**245.6**	**78**	**59**	**144**	**1.6**
PK901091	**9.6**	**M3**	**1-3**	**200-240V**	**9.6**	**2.2**	**2.2**	**297.5**	**95**	**69**	**210**	**3**

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WE BRING BETTER AIR™ TO LIFE

Fläkt Woods' new Woods range offers over 100 years of experience in ventilation within the UK. The Woods brand formerly Woods of Colchester is one of the most if not THE most recognised name within the UK and the world with regard to ventilation. Since our formation in 1909 we have been a pioneer in ventilation and are a name you can trust and rely on.

Within our Woods range you can buy quality products manufactured at our state of the art manufacturing facilities in Colchester and around the world. Choose from an extensive range of products that are stocked and available next day (if ordered by 4pm) and speak to an expert team that will work around the clock to assist you.

Email

woodsuk@flaktgroup.com

Website

www.flaktwoods.co.uk/woods

Twitter

@Woods_Fans_UK



» To learn more about our offering and get in contact with your nearest sales representative please visit **www.flaktwoods.co.uk/woods**

AIR MOVEMENT - FANS CENTRE OF EXCELLENCE
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