



MaXfan Compac Inverter Package

FWMAX



Product Facts

- 400 - 560 mm diameter
- Volumes up to 4.5m³/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 [Dependant 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*

Sizes

400, 450, 500, 560 mm
Smaller 315 & 355 mm available on request

Impellers

A unique high efficiency aerofoil section blade with a smoothed hub and clamp plate for adjustable pitch angle availability.

The Flakt 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 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.



sales@lindab.co.uk



W00-04-06

We reserve the right to make changes without prior notice
2025-02-22



MaXfan Compac Inverter Package

QUICK SELECTION TABLE & ELECTRICAL DATA

230 V / 50HZ/1ph - L TYPE

QUICK SELECTION TABLE

Part Number	Fan Description	Volume (m³/s) @ Pa static										
		0	50	100	200	300	400	500	600	700	800	900
EJ413456	40 MaXfan Compac	1.55	1.49	1.44	1.31	1.18	1.02	0.78	0.41			
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
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
EJ563236	56 MaXfan Compac	4.54	4.4	4.22	3.96	3.62	3.24	2.78	2.25	1.33		

PRODUCT AND ELECTRICAL DETAILS

Part Number	Fan Description	Temperature (°C)	Frame	kW	FLC (A)	SC (A)	Phase	Voltage	Inverter Model	Wiring Diagram	Breakout Sound Level dB(A) @ 3m	Fan Weight (kg)	Casing Length (mm)
EJ413456	40 MaXfan Compac	80	80	1.32	4.71	25.5		230	6.8	CD3042	40	35	375
EJ463266	45 MaXfan Compac	55	80	1.32	4.71	25.5		230	6.8	CD3042	43	37	375
EJ513266	50 MaXfan Compac	65	90	2.64	9.36	52.8		230	9.6	CD3042	48	50.5	520
EJ563236	56 MaXfan Compac	70	90	2.64	9.36	52.8		230	9.6	CD3042	48	55	520



sales@lindab.co.uk



W00-04-06

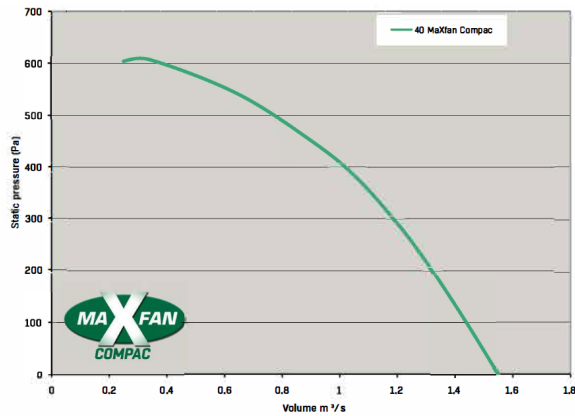
We reserve the right to make changes without prior notice
2025-02-22



MaXfan Compac Inverter Package

230 V / 50HZ/1ph - L TYPE

Performance Chart - 40 MaXfan Compac (EJ413456)



PRODUCT AND ELECTRICAL TABLE - 40 MaXfan Compac

Part Number	Fan Description	Temperature (°C)	Frame	kW	FLC (A)	SC (A)	Phase	Voltage	Inverter Model	Wiring Diagram	Breakout Sound Level dB(A) @ 3m	Fan Weight (kg)	Casing Length (mm)
EJ413456	40 MaXfan Compac	80	80	1.32	5.1	25.5		230	6.8	CD3042	40	35	375

SOUND DATA - 40 MaXfan Compac

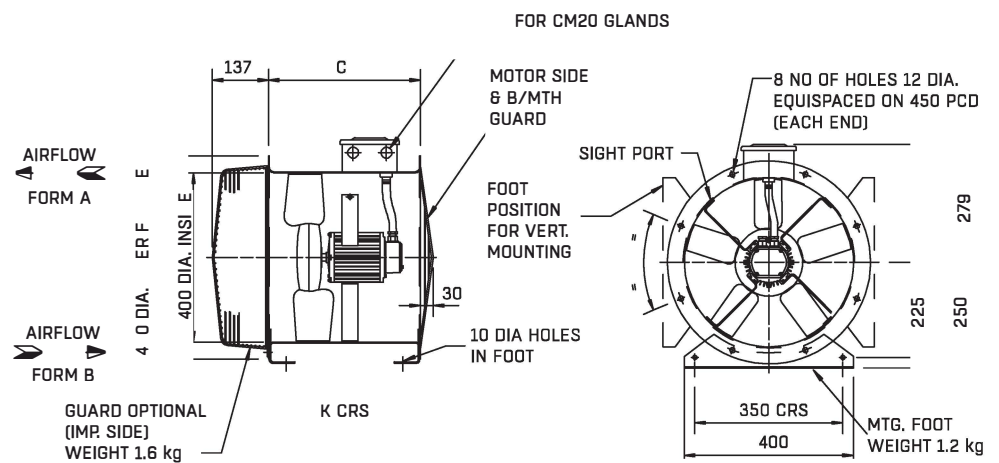
	Sound Spectrum (Hz)								Overall	
	63	125	250	500	1k	2k	4k	8k	Lw*	LpA @ 3m**
Inlet*	75	76	82	79	78	77	74	70	86	63
Outlet*	77	77	85	80	79	77	75	71	88	64
Breakout*	67	62	65	59	53	48	50	48	70	40

*Lw dB re 10^{-12} W
Ps Sound data at 1.32m³/s @ 200Pa (static)

**dBA re 2×10^{-5} PA

DRAWING - 40 MaXfan Compac

Size	Motor Frame	C	K	Weight kg Fan
400	80	375	290	35



sales@lindab.co.uk



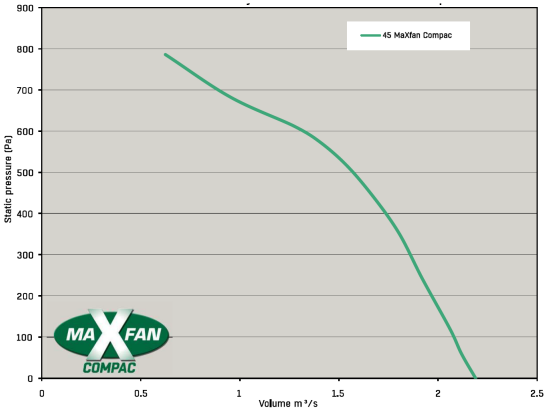
W00-04-06

We reserve the right to make changes without prior notice
2025-02-22



MaXfan Compac Inverter Package

230 V / 50HZ/1ph - L TYPE
Performance Chart - 50 MAXFAN COMPAC (EJ513266)



PRODUCT AND ELECTRICAL TABLE - 50MaXfan Compac

Part Number	Fan Description	Speed	Temperature (°C)	Frame	kW	FLC (A)	SC (A)	Phase	Voltage	Inverter Model	Wiring Diagram	Breakout Sound Level dB(A) @ 3m	Fan Weight (kg)	Casing Length (mm)
EJ513266	50 MaXfan Compac	2910	65	90	2.64	9.4	52.8		230	9.6	CD3042	48	50.5	520

SOUND DATA - 50 MaXfan Compac

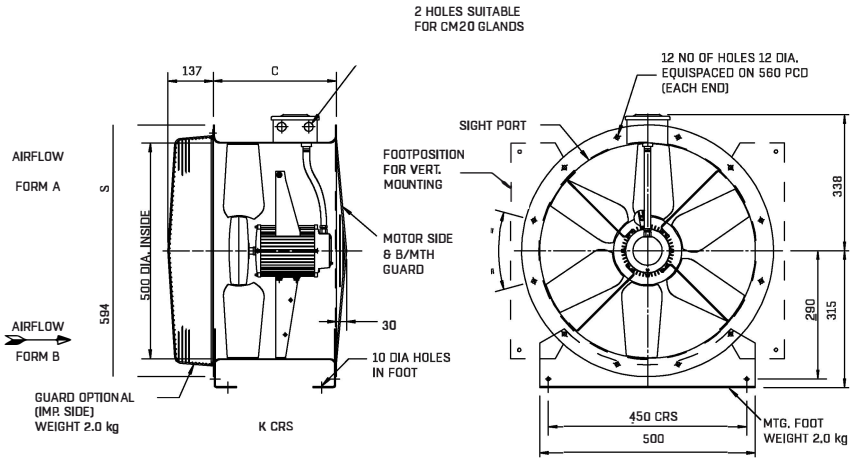
	Sound Spectrum (Hz)								Overall	
	63	125	250	500	1k	2k	4k	8k	Lw*	LpA @ 3m**
Inlet*	83	79	87	88	86	85	81	78	94	71
Outlet*	85	79	90	89	86	86	81	79	95	72
Breakout*	75	61	68	66	61	58	59	55	77	48

*Lw dB re 10⁻¹² W
Ps Sound data at 2.63m³/s @ 400Pa (static)

**dBA re 2x10⁻⁵ Pa

DRAWING - 50 MaXfan Compac

Size	Motor Frame	C	K	Weight kg Fan
500	90	520	290	51



All dimension in mm



sales@lindab.co.uk

W00-04-06

We reserve the right to make changes without prior notice
2025-02-22

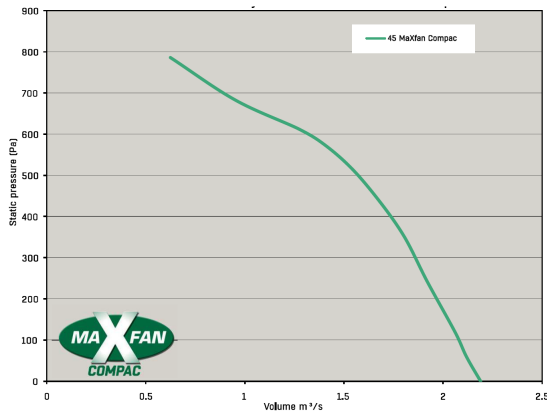




MaXfan Compac Inverter Package

230 V / 50HZ/1ph - L TYPE

Performance Chart - 56 MaXfan Compac (EJ563236)



PRODUCT AND ELECTRICAL TABLE - 56 MaXfan Compac

Part Number	Fan Description	Temperature (°C)	Frame	kW	FLC (A)	SC (A)	Phase	Voltage	Inverter Model	Wiring Diagram	Breakout Sound Level dB(A) @ 3m	Fan Weight (kg)	Casing Length (mm)
EJ563236	56 MaXfan Compac	70	90	2.64	9.4	52.8		230	9.6	CD3042	48	55	520

SOUND DATA - 56 MaXfan Compac

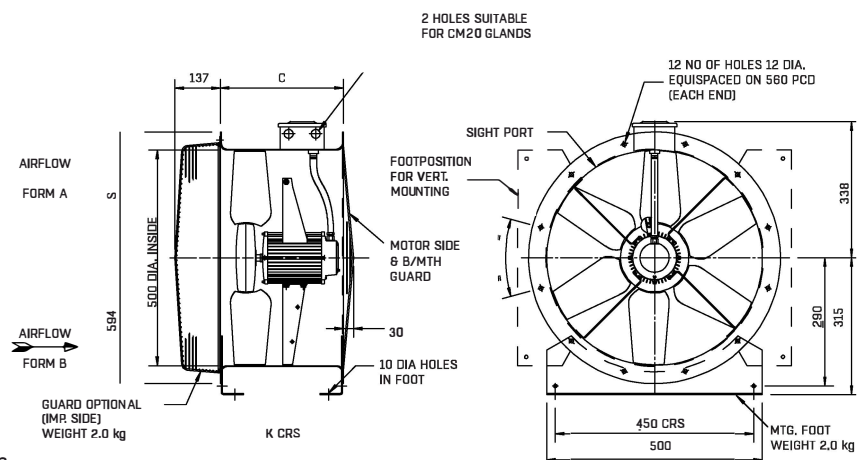
	Sound Spectrum (Hz)								Overall	
	63	125	250	500	1k	2k	4k	8k	Lw*	LpA @ 3m**
Inlet*	83	79	87	88	86	85	81	78	94	71
Outlet*	85	79	90	89	86	86	81	79	95	72
Breakout*	75	61	68	66	61	58	59	55	77	48

*Lw d6 re 10 -12w
PS Sound data at 3*22m3/S (gl 400Pa (Static)

**dBA re 2x10⁻⁵ Pa

DRAWING - 56 MaXfan Compac

Size	Motor Frame	C	K	Weight kg Fan
500	90	520	290	51



All dimension in mm



sales@lindab.co.uk



W00-04-06

We reserve the right to make changes without prior notice

2025-02-22



MaXfan Compac Inverter Package

Features & Benefits

- 1 Ph 200-240V AC to 3 Ph 200-240 V AC Electrical Supply
- Pre-Programmed for easy installation
- Max shielded cable length 25m
- Asynch motor speed control
- Ultra compact 6 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
- 2xAl, 1xA0 6 1xR0 / 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 V AC input into a three phase output to allow the MaXfan Compac product to use a high efficiency 3Ph, 230V motor.

A safety isolator /switch disconnecter 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.

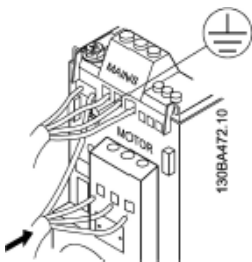
Range

There are two matched inverters that are specifically designed to use with our MaXfan Compac fan range. Details are shown below, strating the connections on the bottom of the inverter drive.

Inverter Model	Ph.	V	Amps	kW	Enc.
6.8	1-3	200-240V	6.8	1.5	M2
9.6	1-3	200-240V	9.6	2.2	M3

Accessories

Description	Part
Local Control Panel(LCP12) Digital Keypad with Pot.	EA901058



Step 1
Fit top cover on frequency converter.

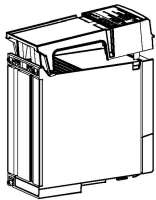


Illustration 414

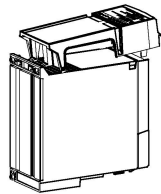


Illustration 415

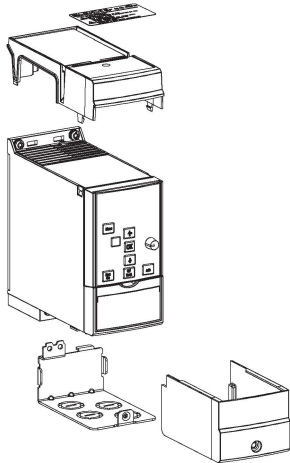


Illustration 418



sales@lindab.co.uk



W00-04-06

We reserve the right to make changes without prior notice
2025-02-22



MaXfan Compac Inverter Package

INVERTER - QUICK INSTALLATION GUIDE

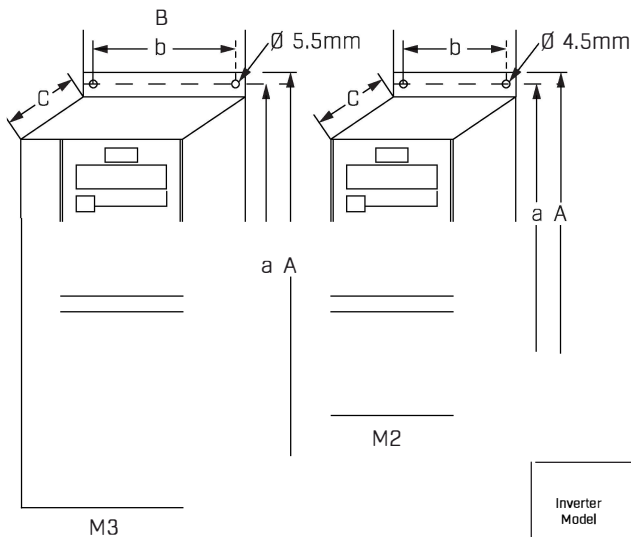


Ready – Steady – Go!
Connect motor and power cables, turn the control knob,
and watch the motor speed change.



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

INVERTER - TECHNICAL & DRAWING DETAILS



Inverter Model	Enc.	Ph.	V	Amps	kW	Power [kW]	Height [mm]	Width [mm]		Depth ¹⁾ [mm]	Max. Weight
						1x200-240 V	A (incl. conversion kit)				kg
6.8	M2	1-3	200-240V	6.8	1.5	1.5	245.6	78	59	144	1.6
9.6	M3	1-3	200-240V	9.6	2.2	2.2	297.5	95	69	210	3

All dimension in mm * For LCP with potentiometer add 7.6mm



sales@lindab.co.uk

