

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.

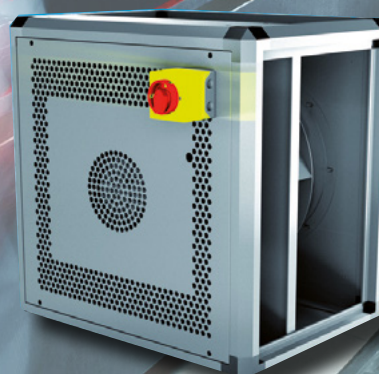


MAXFAN²

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 5.8³/s flow rate and 1450Pa. Available in both AC or EC in 230v single phase or 400v three phase dependant on unit size.



UP TO



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 including **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.

UP TO



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 withstand continuous 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 m³/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

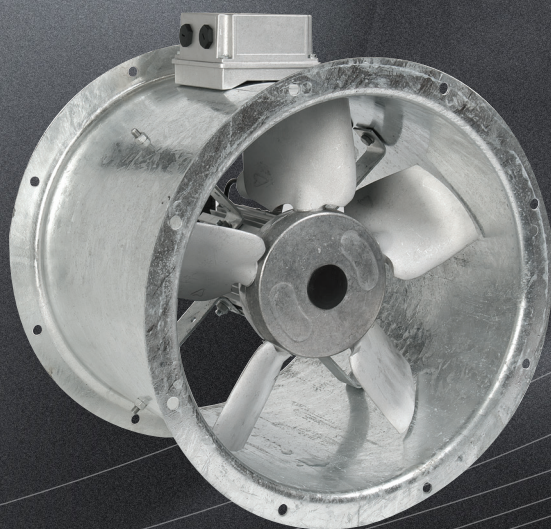
Suitable for medium to higher air flow volumes against high pressures in ventilation systems, speed is 100% infinitely variable, low noise levels with acoustic insulation, manufactured using galvanised sheet steel. Can be installed in axial orientation or any 90° discharge.



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

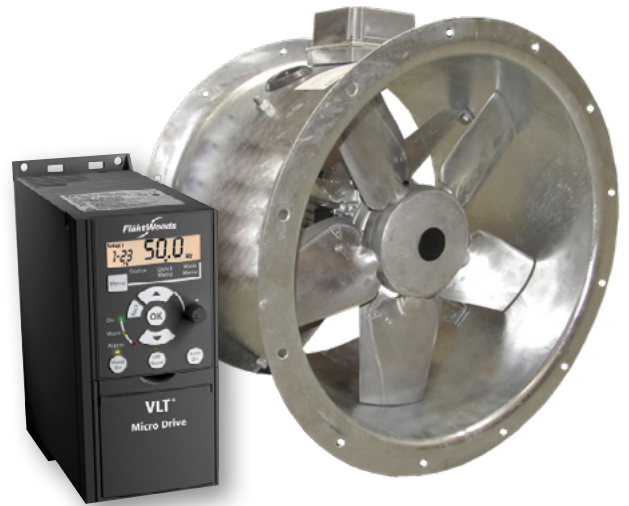
A unique high efficiency aerofoil section blade with a smoothed hub and clamp plate offers a high efficiency solution.

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



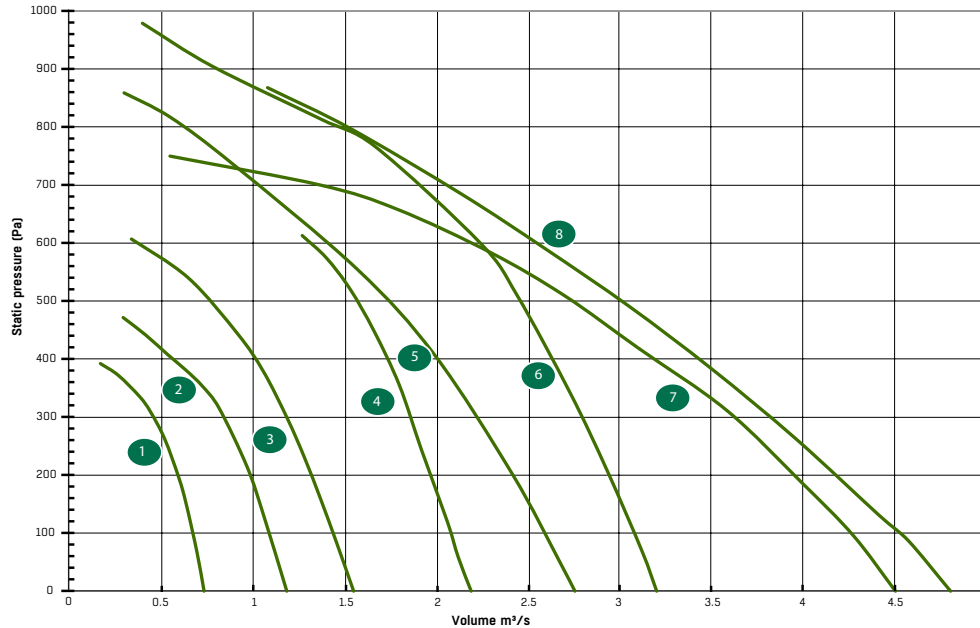
Damper



Acoustic Jacket

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.





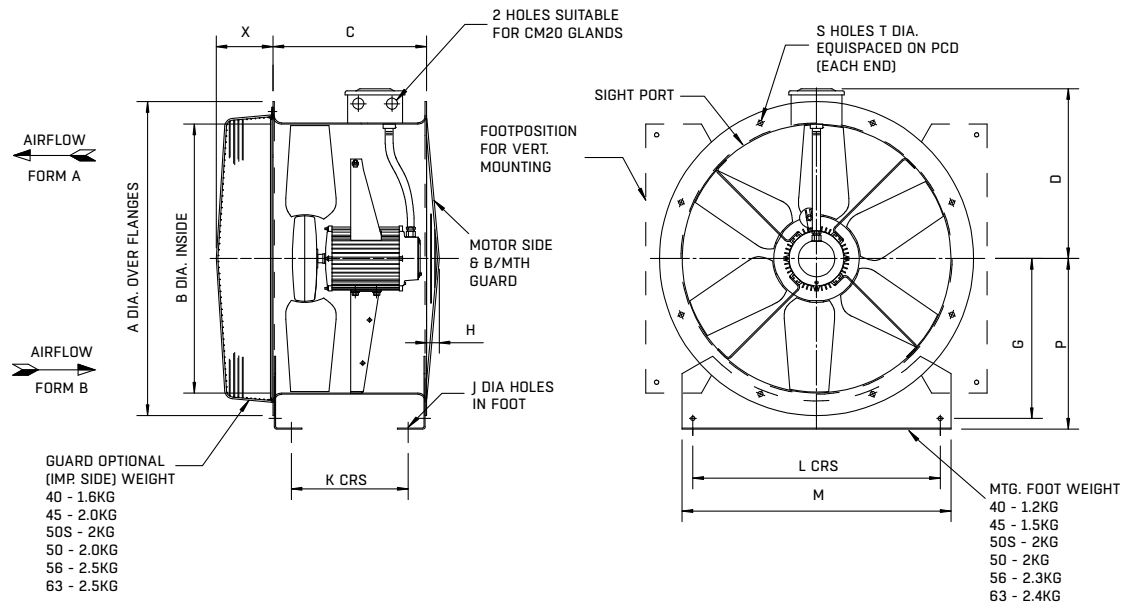
SOUND DATA - MAXFAN COMPAC

| 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 m ³ /s | 252 | Inlet* | 81 | 79 | 80 | 82 | 80 | 76 | 71 | 66 | 88 | 63 |
| 31 MaXfan Compac | 0.53 m ³ /s | 252 | Outlet* | 83 | 80 | 81 | 82 | 80 | 77 | 72 | 67 | 89 | 64 |
| 31 MaXfan Compac | 0.53 m ³ /s | 252 | Breakout* | 73 | 68 | 64 | 66 | 61 | 53 | 51 | 47 | 75 | 45 |
| 35 MaXfan Compac | 0.84 m ³ /s | 302 | Inlet* | 82 | 80 | 84 | 83 | 80 | 77 | 73 | 69 | 89 | 65 |
| 35 MaXfan Compac | 0.84 m ³ /s | 302 | Outlet* | 83 | 80 | 85 | 84 | 81 | 78 | 74 | 69 | 90 | 65 |
| 35 MaXfan Compac | 0.84 m ³ /s | 302 | Breakout* | 74 | 68 | 68 | 67 | 60 | 54 | 53 | 51 | 76 | 47 |
| 40 MaXfan Compac | 1.32 m ³ /s | 200 | Inlet* | 75 | 76 | 82 | 79 | 78 | 77 | 74 | 70 | 86 | 63 |
| 40 MaXfan Compac | 1.32 m ³ /s | 200 | Outlet* | 77 | 77 | 85 | 80 | 79 | 77 | 75 | 71 | 88 | 64 |
| 40 MaXfan Compac | 1.32 m ³ /s | 200 | Breakout* | 67 | 62 | 65 | 59 | 53 | 48 | 50 | 48 | 70 | 40 |
| 45 MaXfan Compac | 1.86 m ³ /s | 300 | Inlet* | 78 | 81 | 88 | 82 | 80 | 80 | 78 | 75 | 91 | 66 |
| 45 MaXfan Compac | 1.86 m ³ /s | 300 | Outlet* | 79 | 81 | 88 | 82 | 81 | 80 | 79 | 77 | 91 | 67 |
| 45 MaXfan Compac | 1.86 m ³ /s | 300 | Breakout* | 69 | 63 | 66 | 59 | 56 | 52 | 57 | 53 | 72 | 43 |
| 50 SC MaXfan Compac | 2 m ³ /s | 400 | Inlet* | 81 | 82 | 89 | 85 | 87 | 87 | 83 | 79 | 95 | 72 |
| 50 SC MaXfan Compac | 2 m ³ /s | 400 | Outlet* | 81 | 82 | 91 | 86 | 87 | 87 | 85 | 81 | 96 | 73 |
| 50 SC MaXfan Compac | 2 m ³ /s | 400 | Breakout* | 71 | 64 | 69 | 63 | 62 | 59 | 63 | 57 | 75 | 49 |
| 50 MaXfan Compac | 2.63 m ³ /s | 400 | Inlet* | 83 | 79 | 87 | 88 | 86 | 85 | 81 | 78 | 94 | 71 |
| 50 MaXfan Compac | 2.63 m ³ /s | 400 | Outlet* | 85 | 79 | 90 | 89 | 86 | 86 | 81 | 79 | 95 | 72 |
| 50 MaXfan Compac | 2.63 m ³ /s | 400 | Breakout* | 75 | 61 | 68 | 66 | 61 | 58 | 59 | 55 | 77 | 48 |
| 56 MaXfan Compac | 3.22 m ³ /s | 400 | Inlet* | 86 | 93 | 88 | 90 | 88 | 85 | 79 | 77 | 97 | 72 |
| 56 MaXfan Compac | 3.22 m ³ /s | 400 | Outlet* | 87 | 95 | 89 | 90 | 88 | 85 | 80 | 79 | 98 | 72 |
| 56 MaXfan Compac | 3.22 m ³ /s | 400 | Breakout* | 77 | 74 | 63 | 65 | 63 | 58 | 61 | 55 | 79 | 48 |
| 63 MaXfan Compac | 3.4 m ³ /s | 400 | Inlet* | 85 | 95 | 93 | 91 | 87 | 84 | 83 | 81 | 99 | 72 |
| 63 MaXfan Compac | 3.4 m ³ /s | 400 | Outlet* | 86 | 98 | 94 | 91 | 87 | 85 | 84 | 83 | 100 | 73 |
| 63 MaXfan Compac | 3.4 m ³ /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



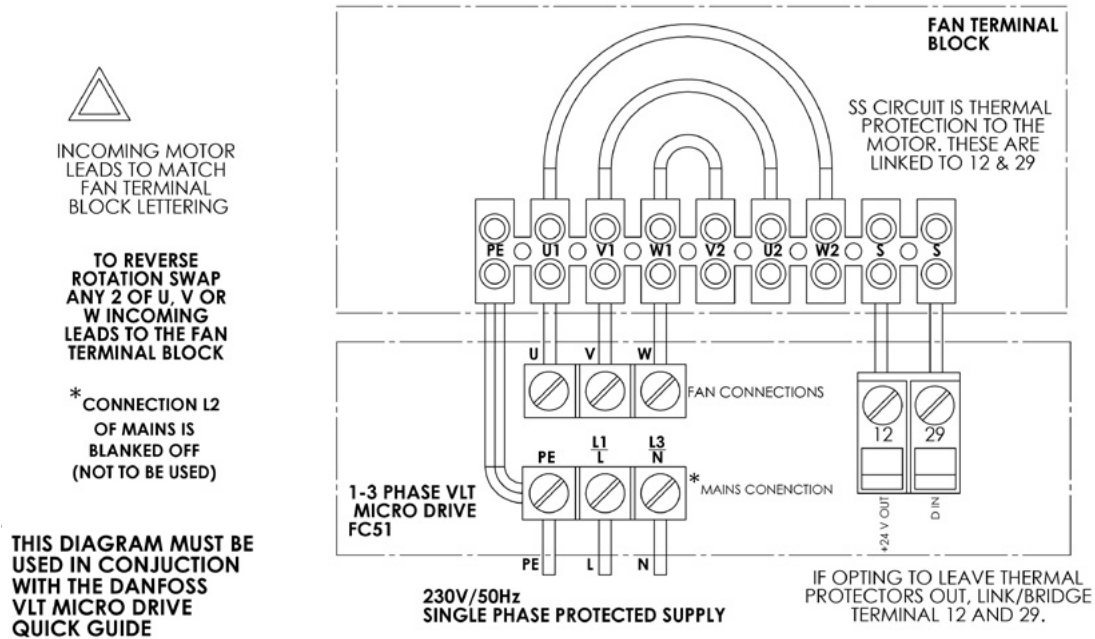
| Product Code | Motor Frame | A | B | C | D | G | H | J | K | L | M | P | S | T | x | Weight (kg) |
|---------------------|-------------|-----|-----|-----|-----|-----|----|----|-----|-----|-----|-----|----|----|-----|-------------|
| 31 MaXfan Compac | 80 | 395 | 315 | 375 | 229 | 200 | 30 | 10 | 285 | 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

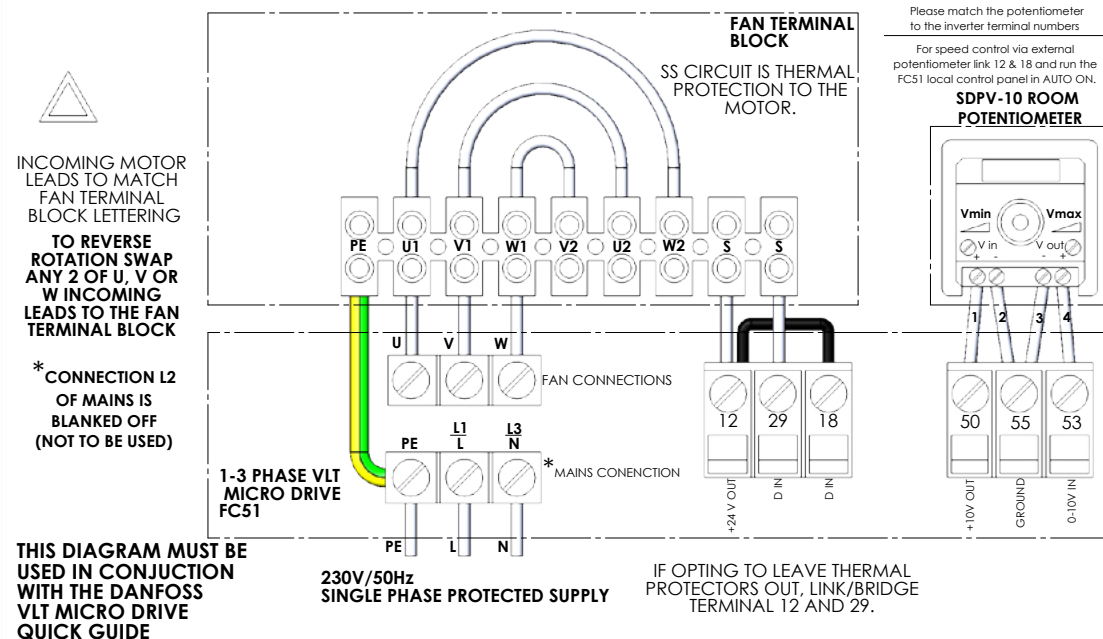
CD3042 - MAXFAN COMPAC

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 potentiometer)



The MaXfan Compac can also be fitted using a remote switch connected 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

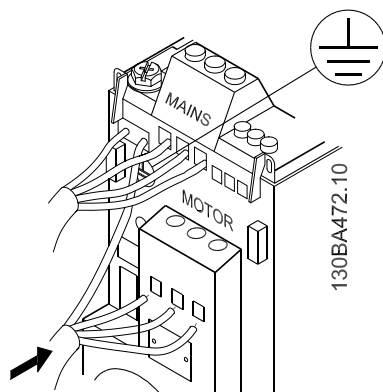
DESCRIPTION

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 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 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.

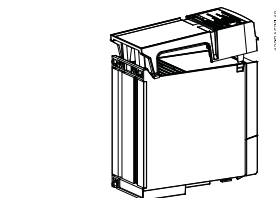


Illustration 414

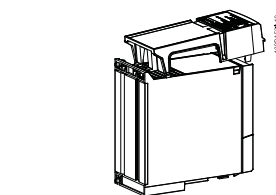


Illustration 415

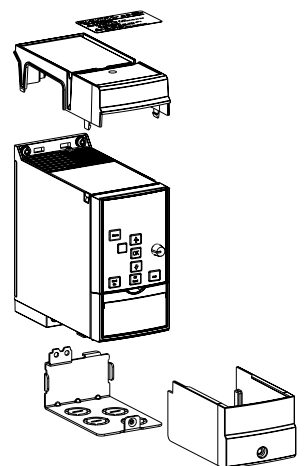


Illustration 416



INVERTER - QUICK INSTALLATION GUIDE

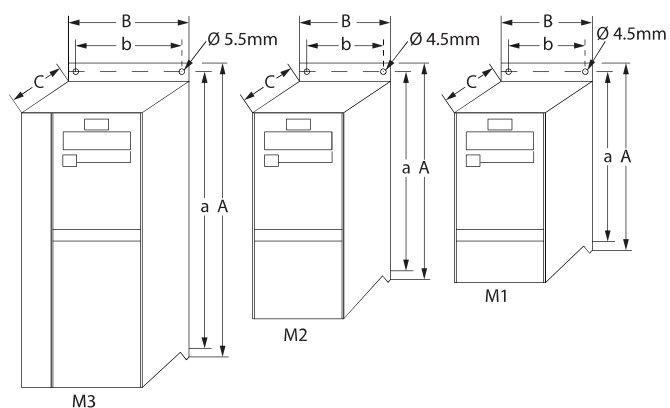


Ready - Steady - Go!
 Connect motor and power cables, turn the control knob,
 and watch the motor speed change.



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] A (incl. conversion kit) | Width [mm] | | Depth [mm] C | Max. Weight kg |
|----------------|-------------------|------|-----|----------|------|------|---------------|---|---------------|----|--------------------|----------------------|
| | | | | | | | 1x200-240 V | | B | b | | |
| 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 |

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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