


**Project :** \_\_\_\_\_ **Customer :** \_\_\_\_\_ **Project Code :** \_\_\_\_\_  
**Quotation :** \_\_\_\_\_ **Date :** 21 February 2025



**MaXfan Compac**

45 MaXfan Compac  
 1 day - (Fan Only)  
 Lead time may vary based on stock availability at time of order. Please refresh the lead time in the project or reselect the fan before placing an order.

PRODUCT	
Model Code	45 MaXfan Compac
Fan Diameter	450 mm
Fan Speed	2870 rpm [Max 9999, Min 556]
Impeller	6 Blades, 16° Angle
Installation	Type D
Fan Casing	Long Case

PERFORMANCE	
Requested Duty	1.00 m³/s @ 100 Pa (Static)
Actual Duty	1.80 m³/s @ 324 Pa (Static)
Outlet Dynamic Pressure	77 Pa
Velocity	11.33 m/s
Absorbed Power	1.09 kW
Peak Power	1.31 kW [Used to size motor]
Efficiency (Total / Static)	66.2 % / 53.5 %

MOTOR	
Motor Rating	1.32 kW [ 80 Frame - 2 Pole ]
Full Load Current	4.79 A
Starting Current	25 A
Electrical Supply	220 - 240 Volts 50 Hz 3 Phase
Motor Winding	Standard
Motor Type	TEAR - Pad - IE2 - Class F Insulation

EFFICIENCY GRADES	
ErP [FMEG] Rating	N 59 (ErP Compliant 2015) ✓
ErP [FMEG]	Target N 58
FMEG Blade Angle [Range]	16° [ 16° To 16° ]
Measurement Category	D
VSD	No
Fan + Motor Efficiency	54.1% (1.65 m³/s @ 501 Pa)
Motor Input Power (ErP)	1.53 kW

ENVIRONMENT	
Air Density	1.2 kg/m³ / 20 °C / 0 m / 40% RH
Smoke Venting	No Smoke Venting
Operating Environment	Normal

RUNNING COSTS	
Power from mains	1.37 kW
Energy Consumption	2,743.53 kWh (2,000.00 h/Year)
Running Cost / Year	£685.88
CO2 per Year	964.51 kgCO2e
SFP value	0.76 W/l/s @ Actual Duty

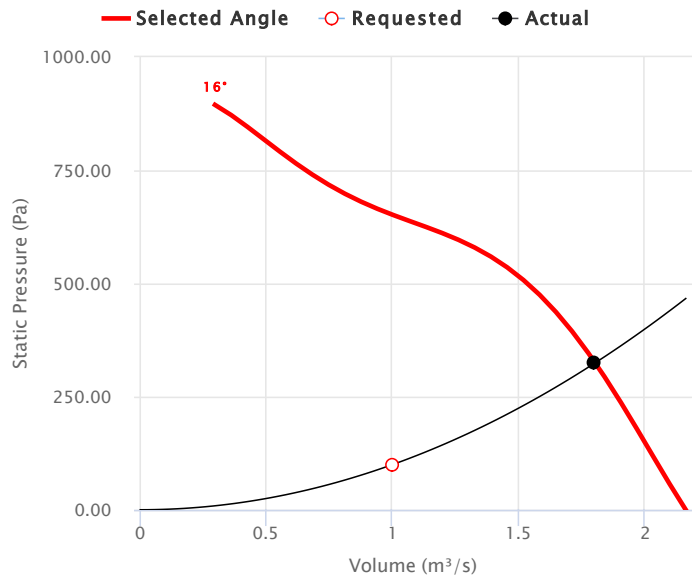
**PRODUCT DIMENSIONS**

This drawing shows dimensions that should be used as a guide only and are subject to change. Certified drawings are available on request.

MECHANICAL	
Casing	450mm # Casing
Impeller	Hub, Blades
Operating Temperatures	-20 °C to 55 °C (95% Max Relative Humidity)

**COMMENTS**

**FAN PERFORMANCE CURVE**



**ACOUSTICS**

	Sound Spectrum (Hz)								Overall		Distance (3 m)
	63	125	250	500	1k	2k	4k	8k	Lw*	LwA*	LpA @ 3 m **
Inlet	77	75	82	84	83	82	78	75	90	88	68
Outlet	79	75	84	85	83	82	78	76	91	89	68
Breakout	69	57	62	62	58	54	56	52	71	64	44

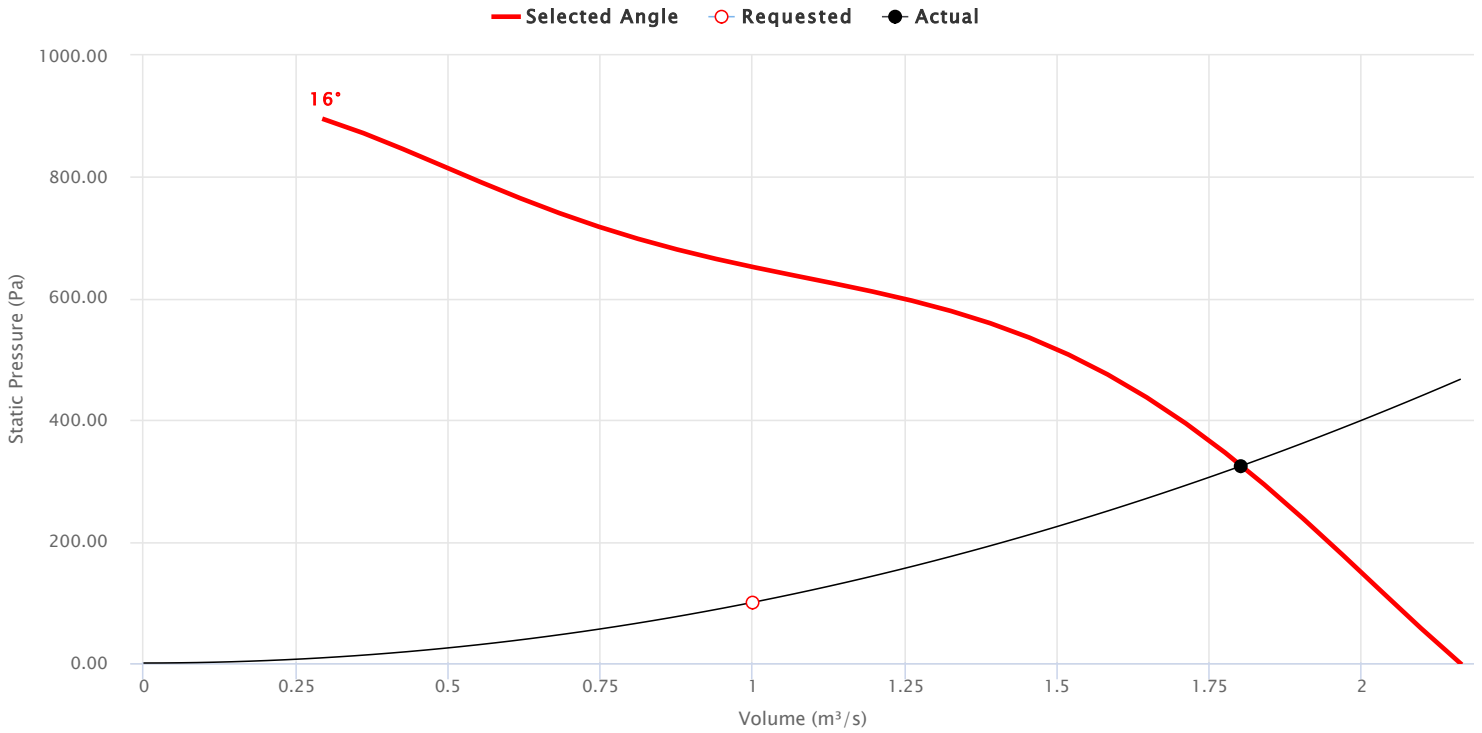
Sound Data At Requested Duty. \* Lw dB re 10<sup>-12</sup> W \*\* dBA re 2x10<sup>-5</sup> Pa

**FAN & ACCESSORIES**

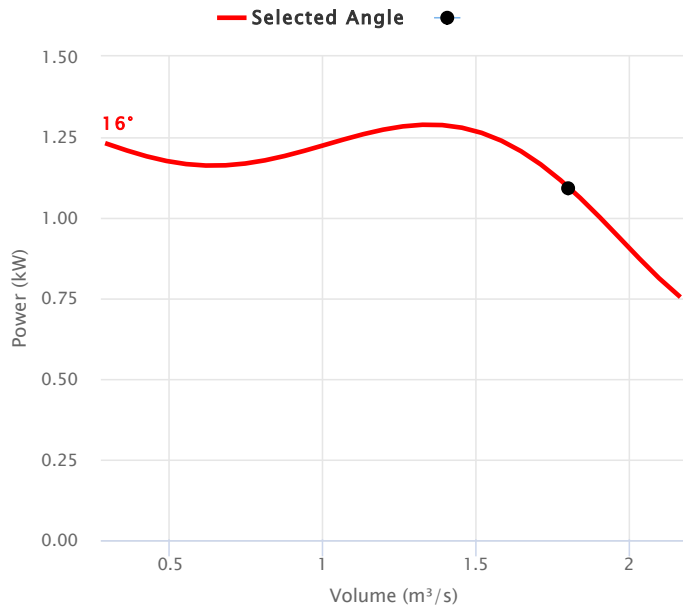
Item Description	Part Number	Qty	Lead-Time
45 MaXfan Compac	EJ463266	1	1 Day
IEDXB20 - 1ph to 3ph Inverter	PK901090	1	1 Day

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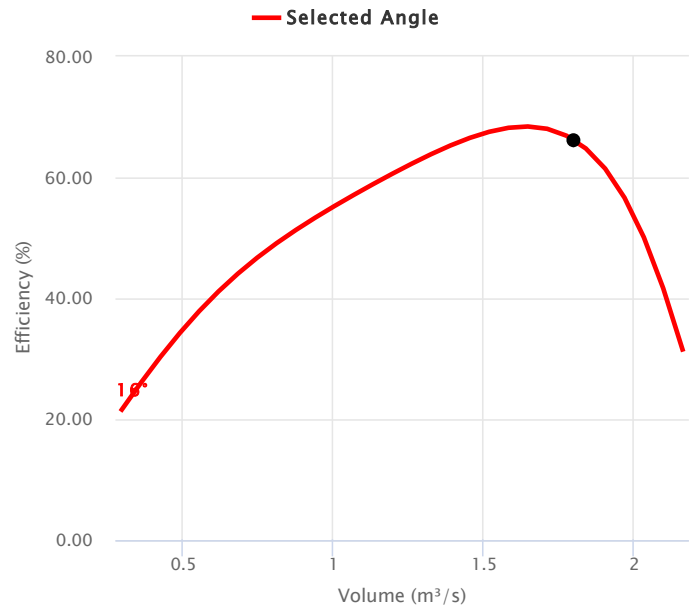
**AERODYNAMIC**



**POWER CHART**



**EFFICIENCY CHART**



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**PRODUCT DIMENSIONS**

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**ACCESSORY DIMENSIONS**

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**MAXFAN COMPAC**

**ACOUSTIC NOTES**

Performance data has been derived from tests carried out in a Flakt Woods laboratory, in accordance with ISO 5801 and is specifically applicable for Ducted installations. When an electronic controller is incorporated, motor noise may increase slightly - particularly when the operating speed is well below maximum. We therefore recommend using an auto transformer speed controller for noise sensitive applications. Bifurcated Axial fans are ErP exempt, where the in-duct air temperature is continuously greater than 100°C. This fan variant should not be used within EEA countries at lower temperatures.