

Project : _____ **Customer :** _____ **Project Code :** _____
Quotation : _____ **Date :** 21 February 2025



MaXfan Compac

 50 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	50 MaXfan Compac
Fan Diameter	500 mm
Fan Speed	2840 rpm [Max 9999, Min 546]
Impeller	5 Blades, 12° Angle
Installation	Type D
Fan Casing	Long Case

PERFORMANCE	
Requested Duty	1.00 m³/s @ 100 Pa (Static)
Actual Duty	2.00 m³/s @ 402 Pa (Static)
Outlet Dynamic Pressure	63 Pa
Velocity	10.21 m/s
Absorbed Power	1.37 kW
Peak Power	1.47 kW [Used to size motor]
Efficiency (Total / Static)	68.1 % / 58.9 %

MOTOR	
Motor Rating	1.73 kW [80 Frame - 2 Pole]
Full Load Current	6.24 A
Starting Current	31.8 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]	12° [12° To 12°]
Measurement Category	D
VSD	No
Fan + Motor Efficiency	55.0% (1.99 m³/s @ 468 Pa)
Motor Input Power (ErP)	1.70 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	1.69 kW
Energy Consumption	3,374.35 kWh (2,000.00 h/Year)
Running Cost / Year	£843.59
CO2 per Year	1,186.29 kgCO2e
SFP value	0.84 W/l/s @ Actual Duty

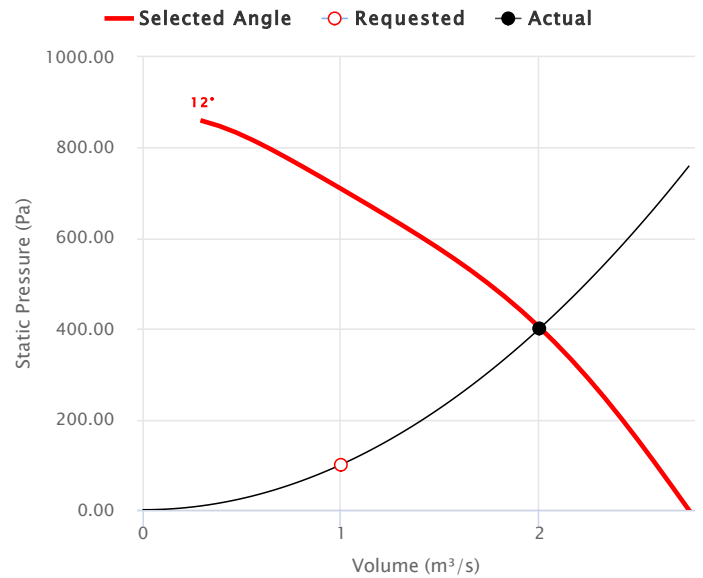
PRODUCT DIMENSIONS

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	500mm # Casing
Impeller	Hub, Blades
Operating Temperatures	-20 °C to 65 °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	81	82	89	85	87	87	83	79	95	93	72
Outlet	81	82	91	86	87	87	85	81	96	94	73
Breakout	71	64	69	63	62	59	63	57	75	69	49

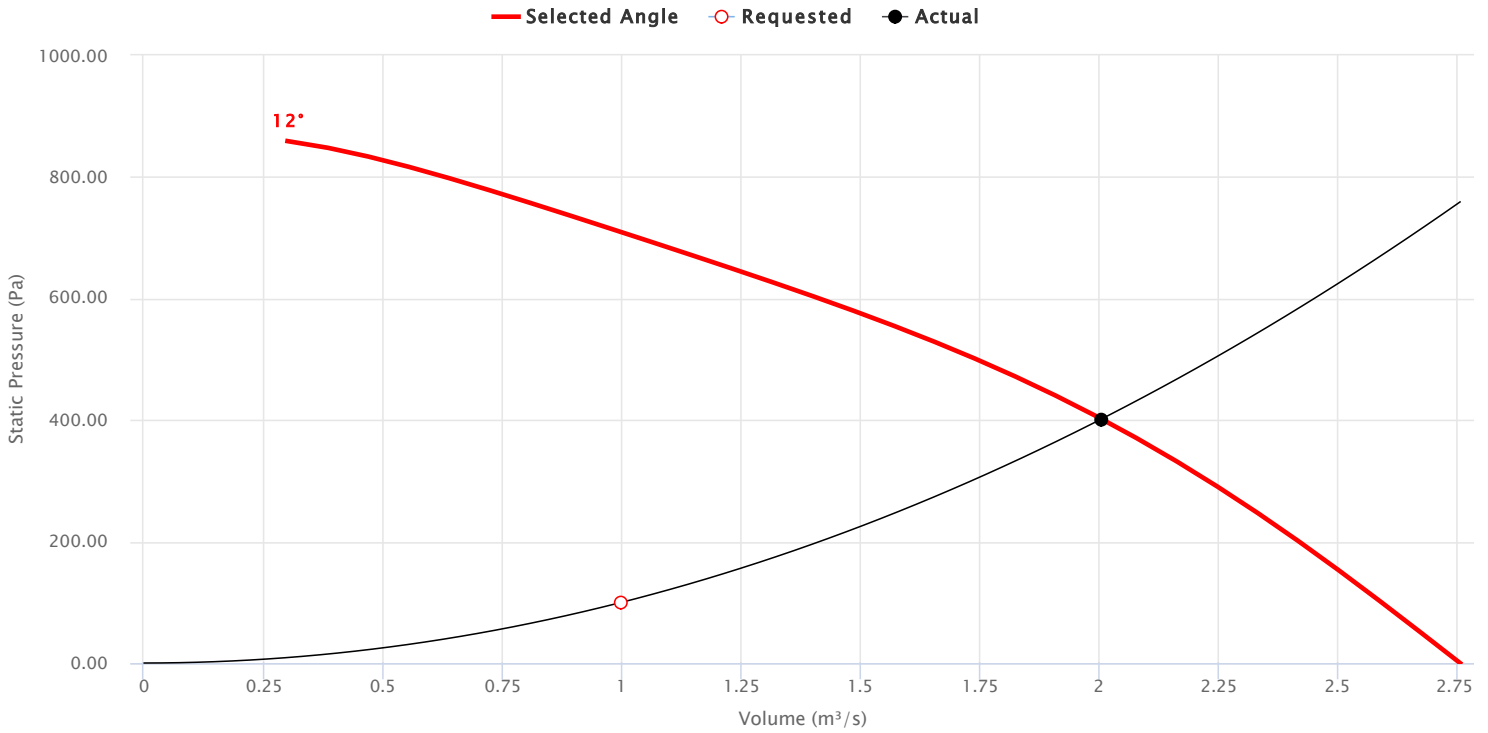
Sound Data At Requested Duty. * Lw dB re 10⁻¹² W ** dBA re 2x10⁻⁵ Pa

FAN & ACCESSORIES

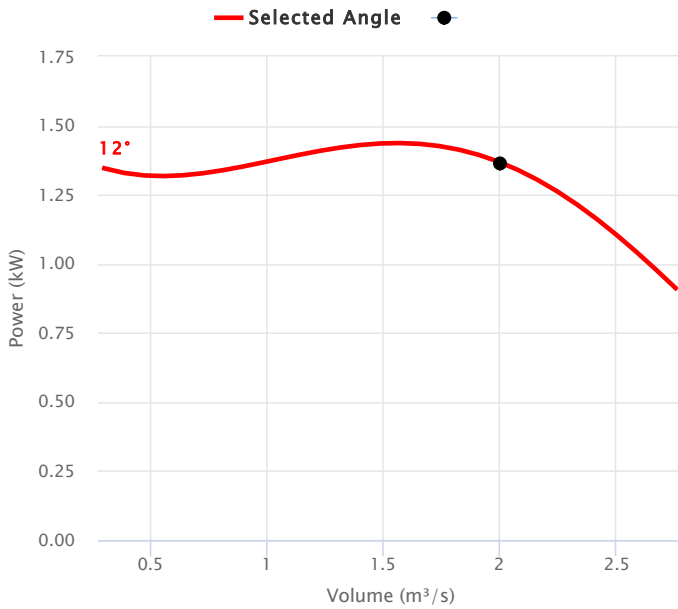
Item Description	Part Number	Qty	Lead-Time
50 MaXfan Compac	EJ513255	1	1 Day
IEDXB20 - 1ph to 3ph Inverter	PK901090	1	1 Day

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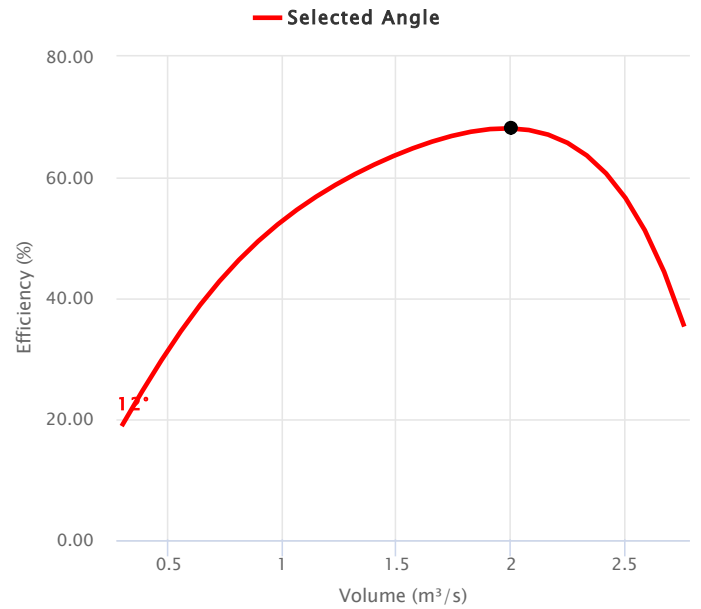
AERODYNAMIC



POWER CHART



EFFICIENCY CHART



ACOUSTICS

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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.