

: KP70960r2 **Ouotation Number** 

**Project Name** : Odour Control System Revision

Item Reference:

Fan Code 80JM/31/2/9/20 Fan Diameter / Size 800 Size / mm **Blades** 2910 rpm

Fan Speed Velocity 19.1 m/s Blade Ángle 20°

Installation Type / Form of Running D / B (Horizontal)

Fan Casing Long

Requested Duty 9.58m3/s @ 1884 Pa (static)

Outlet Dynamic Pressure 220 Pa

**Duty Shaft Power** 32.61 kW Max Shaft Power 33.60 kW Total Efficiency 62.4 %

Motor Frame 180M/L [ Class F ] Motor Rating 34.50 kW [ IE2 ] Full Load Current Starting Current Motor Mounting 426.2 A

Pad

Electrical Supply 380-420 Volts 50 Hz 3 Phase Start Type Enquire

Motor Winding Standard Standard All **Enclosure** 

ErP [FMEG] Rating N 61 (ErP Compliant) ErP [FMEG] Target N 58 20° [ 8° - 20° ] FMEG Blade Angle [Range] Measurement Category D (Total)

Fan + Motor Efficiency 62.6% (11.77 m<sup>3</sup>/s @ 1746 Pa)

Motor Input Power (ErP)

SFP value 3.67 W/(I/s) @ Requested Duty Power from mains 35.26 kW

105774 kWh (3000 h/year) **Energy Consumption** 

Running Cost / Year f12693

1.2 kg/m<sup>3</sup> / 20 °C / 0 m / 40% RH Air Density

Smoke Venting Non Smoke Venting **Project Code** 

Customer : Bio Dynamic

Friday, July 29, 2022 Date:

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, enhanced motor noise can occur - particularly when the operating speed is well below maximum. FWL therefore recommend using an auto transformer speed controller for noise sensitive applications. Bifurcateds are Erp exempt when used continuously at >100C. They are not for use in the EEA at lower temperatures.

Acoustic data has been derived from tests carried out in a Flakt Woods laboratory, in accordance with BS 848 Pt 2, 1985 / ISO 5136 under Ducted conditions. The LpA figure provided is the overall Inlet sound pressure level calculated at the specified distance, under spherical, free field conditions. Breakout levels stated are estimated from induct sound power levels and are provided for guidance.

Acoustic figures for adjusted running speeds have been interpolated and are for reference only.

This Offer is made subject to the latest version of our A100-19 Terms and Conditions, a copy of which can be made available on request. Our lead times will be re-confirmed on receipt of manufacturing release and may be subject to

	Sou	Sound Spectrum (Hz)							Overall	
	63	125	250	500	1k	2k	4k	8k	Lw*	LpA @ 3 m**
Inlet*	108	107	100	105	106	106	100	96	114	91
Outlet*	109	107	101	105	106	106	100	98	115	91
Breakout*	99	86	75	80	81	78	80	75	100	66
* Lw dB re 10 <sup>-12</sup> W						а				
Sound data at red	nueste	d dut	V							

Description	Qty
Fan	
80JM/31/2/9/20	1
Accessories	
Thermistors	1

Unit E1 Longford trading Estate Thomas Street, Stretford, Manchester, , M32 0JT Tel: 0161 864 1777 Fax: 0161 864 2777

Website: www.nfan.co.uk Email: kyle@nfan.co.uk Copyright Fläkt Group 2003 - 2020

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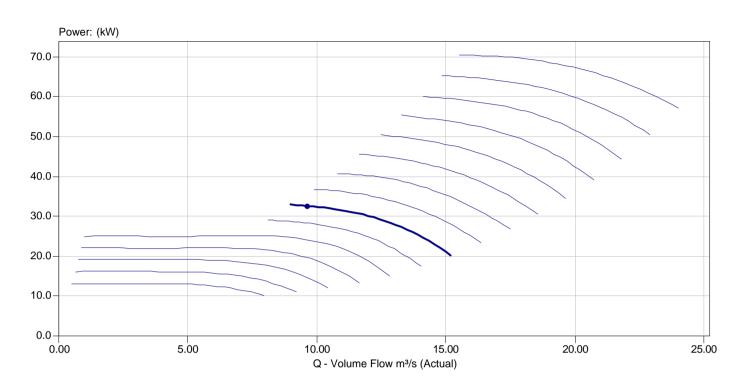
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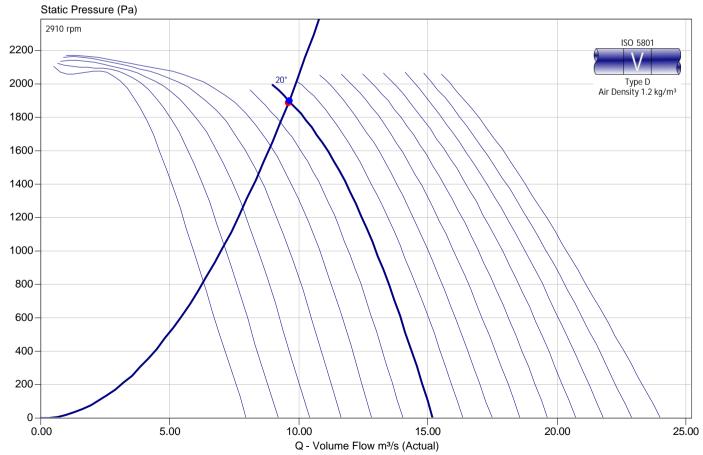
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Page 2 of 2

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