



Quotation Number : KP70960r2  
 Project Name : Odour Control System Revision  
 Item Reference: :

Project Code :  
 Customer : Bio Dynamic  
 Date: : Friday, July 29, 2022

Fan Code 80JM/31/2/9/20  
 Fan Diameter / Size 800 Size / mm  
 Blades 9  
 Fan Speed 2910 rpm  
 Velocity 19.1 m/s  
 Blade Angle 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 58 A  
 Starting Current 426.2 A  
 Motor Mounting Pad  
 Electrical Supply 380-420 Volts 50 Hz 3 Phase  
 Start Type Enquire  
 Motor Winding Standard  
 Enclosure Standard All

ErP [FMEG] Rating N 61 (ErP Compliant)  
 ErP [FMEG] Target N 58  
 FMEG Blade Angle [Range] 20° [ 8° - 20° ]  
 Measurement Category D (Total)  
 VSD N  
 Fan + Motor Efficiency 62.6% (11.77 m³/s @ 1746 Pa)  
 Motor Input Power (ErP) 32.86 kW

SFP value 3.67 W/(l/s) @ Requested Duty  
 Power from mains 35.26 kW  
 Energy Consumption 105774 kWh (3000 h/year)  
 Running Cost / Year £12693

Air Density 1.2 kg/m³ / 20 °C / 0 m / 40% RH  
 Smoke Venting Non Smoke Venting

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 change.

	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  
 \*\* dBA re 2x10<sup>-5</sup> Pa

Sound data at requested duty.

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



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