



Northern Fan Supplies Ltd

Technical Data Sheet

JM Aerofoil

Quotation Number	:	F
Project Name	:	C
Item Reference:	:	C

Fan Code	31JM/16/4/5/34
Fan Diameter / Size	315 Size / mm
Blades	5
Fan Speed	1420 rpm
Velocity	4.2 m/s
Blade Angle	34°
Installation Type / Form of Running	D / B
Fan Casing	Long

Requested Duty	0.33m³/s @ 94 Pa (static)
Outlet Dynamic Pressure	11 Pa

Duty Shaft Power	0.069 kW
Max Shaft Power	0.070 kW
Total Efficiency	50.3 %
Pitch Angle Range	28° - 34°

Motor Frame	BT5 (Sized at 1.2kg/m³ Air Density)
Motor Grade	IE1
Motor Rating	0.075 kW
Full Load Current	0.53 A
Starting Current	1.45 A
Motor Mounting	Pad
Electrical Supply	220-240 Volts 50 Hz 1 Phase
Start Type	DOL
Motor Winding	Standard
Enclosure	Standard All

ErP [FMEG] Rating	Not in Scope
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SFP value	0.34 W/(l/s)
Energy Consumption	226 kWh (2000 h/year)
Running Cost / Year	£20

Air Density	1.2 kg/m³ / 20 °C / 0 m / 50% RH
Smoke Venting	Non Smoke Venting
Product Number	EJ321460

	Sound Spectrum (Hz)								Overall	
	63	125	250	500	1k	2k	4k	8k	Lw*	LpA @ 3 m**
Inlet*	90	87	84	82	77	73	68	64	93	63
Outlet*	91	89	84	82	78	75	70	66	94	63
Breakout*	81	75	64	62	54	46	44	42	82	43
* Lw dB re 10 ⁻¹² W ** dBA re 2x10 ⁻⁵ Pa										

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.

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