

Alan Williams and Company(WALES) Ltd.

Technical Data Sheet

JM Aerofoil



Project Name : Blackburn. 6.1m3sec option

Quotation Number :

Customer : SCS- Chris Connolly

Fan Code HT63JM/25/2/3/28

Fan Diameter / Size 630 Size /mm

Blades 3

Fan Speed 2910 rpm

Velocity 19.7 m/s

Blade Angle 28°

Form of Running B

Fan Casing Long

Requested Duty 6.1m³/s @ 300 Pa (static)

Actual Emergency Duty 6.13m³/s @ 452 Pa (static)

Outlet Dynamic Pressure 232Pa

Accessory Losses 116Pa

Idling Loss* 147Pa

Duty Shaft Power 7.86 kW

Max Shaft Power 8.08 kW

Total Efficiency 53.4 %

Pitch Angle Range 22° - 28°

Motor Frame 112M

Motor Efficiency IE2

Motor Rating 8.25 kW

Full Load Current 15.5 A

Starting Current 99.42 A

Motor Mounting Pad

Electrical Supply 380-420 Volts 50 Hz 3 Phase

Start Type DOL

Motor Winding Standard

Enclosure Standard All

SFP value 1.47 W/(l/s)

Energy Consumption 18001 kWh (2000 h/year)

Running Cost / Year £16201

Air Density 1.2 kg/m³ / 20 °C / 0 m / 50% RH

Smoke Venting 300°C for 2 Hours

Date: : Wednesday, October 24, 2012

Fan Code : HT63JM/25/2/3/28

Item Reference: :

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 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.

Terms and Conditions: This offer is made subject to the terms and conditions detailed on the accompanying letter.

Selection includes run / standby in series losses. Sound levels could be up to 5 dB higher than those stated, dependant on fan spacing.

	Sound Spectrum (Hz)								Overall	
	63	125	250	500	1k	2k	4k	8k	Lw*	LpA @ 3m**
Inlet*	101	104	102	98	93	90	87	84	108	79
Outlet*	103	106	103	98	93	91	89	86	110	80
Breakout*	93	85	77	73	68	64	70	62	94	57

* Lw dB re 10⁻¹² W

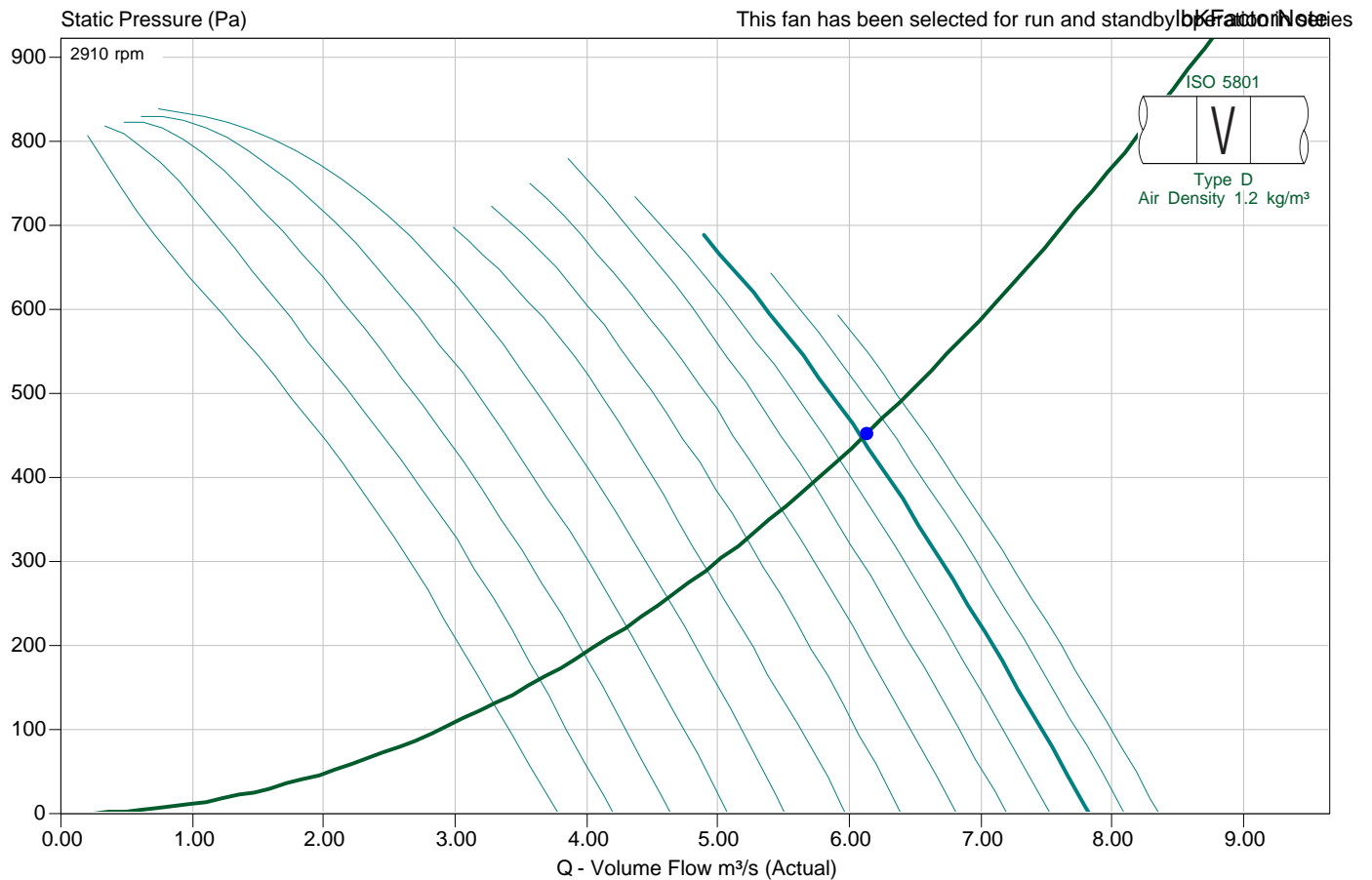
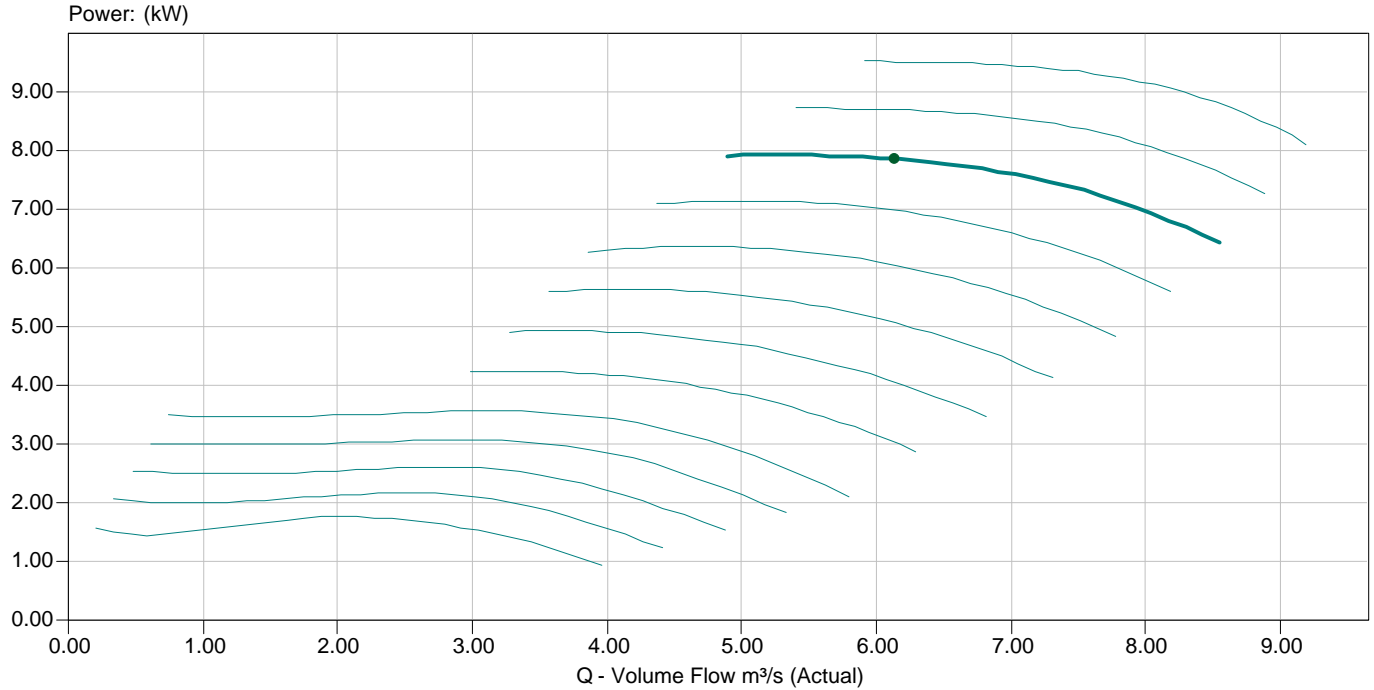
** dBA re 2x10⁻⁵ Pa

Performance Chart

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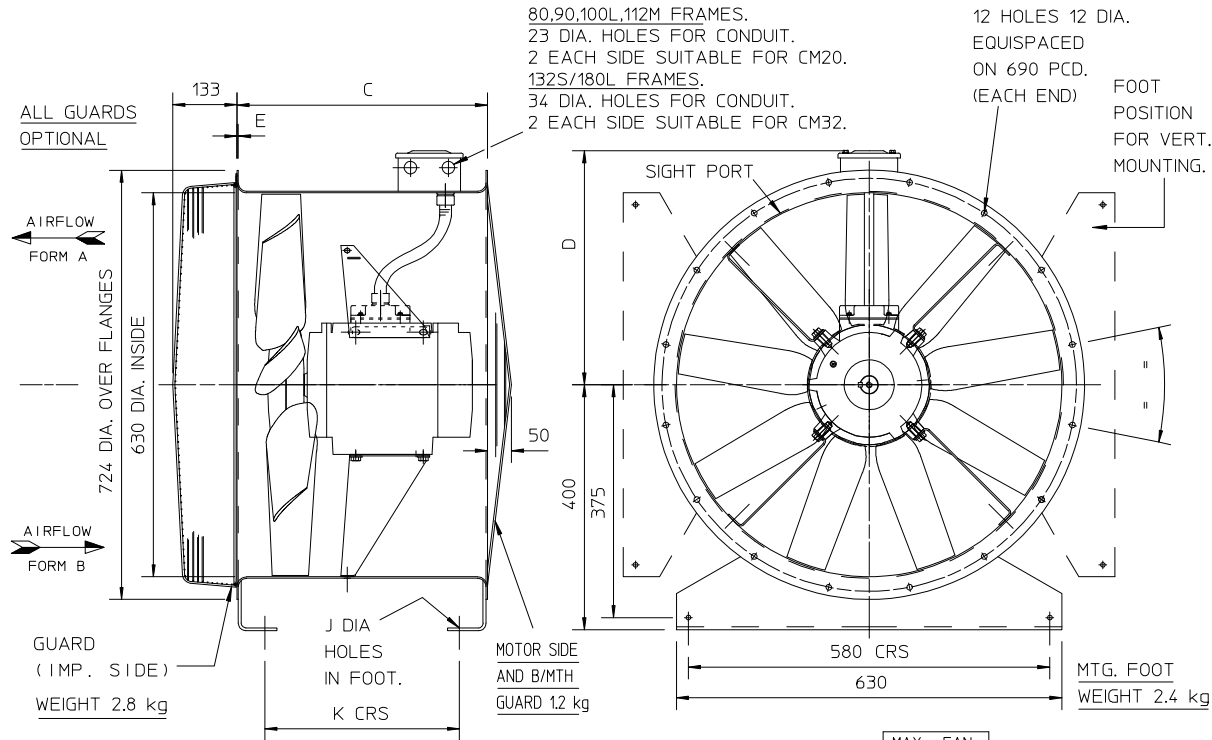
Drawing and Dimensions

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SIZE	FRAME	C	D	E	J	K	MAX. FAN WEIGHT kg
630	80	375	403	3	10	280	47
	90S/90L	520	403	3	10	434	61
	100L	520	403	3	10	434	80
	112M	520	403	3	10	434	92
160mm to 315mm hubs	132S/M	520	440	5	12	434	140
	160M	625	440	5	12	537	202
	160L	711	440	6	12	619	232
	180L	711	440	6	12	619	320

Notes : Dimensions shown in mm / Weight in kg

Reference :D275107

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

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