Northern Fan Supplies Ltd

Technical Data Sheet

JM Aerofoil

Quotation Number	:	KP42688	Project Code	:	AF-3085-1
Project Name	:	Beat Street	Customer	:	Swan Projects
Item Reference:	:	Fan 1	Date:	:	Friday, January 22, 2016

Fan Code	56JM/20/2/6/22
Fan Diameter / Size	560 Size / mm
Blades	6
Fan Speed	2910 rpm
Velocity	19.9 m/s
Blade Angle	22°
Installation Type / Form of Running	D / B
Fan Casing	Long
Requested Duty	4.8m³/s @ 500 Pa (static)
Outlet Dynamic Pressure	236 Pa
Duty Shaft Power	4.88 kW
Max Shaft Power	5.56 kW
Total Efficiency	75.7 %
Motor Frame	112M
Motor Rating	6.05 kW [IE2]
Full Load Current	11.6 A
Starting Current	76.56 A
Motor Mounting	Pad
Electrical Supply	380-420 Volts 50 Hz 3 Phase
Start Type	DOL
Motor Winding	Standard
Enclosure	Standard All
ErP [FMEG] Rating	N 68 (ErP Compliant 2015)
ErP [FMEG] Target	N 58
FMEG Blade Angle [Range]	18° [8° - 22°]
Measurement Category	D (Total)
VSD	N
Fan + Motor Efficiency	66.5% (4.02 m³/s @ 740 Pa)
Motor Input Power (ErP)	4.47 kW
SFP value	1.15 W/(l/s) @ Requested Duty
Power from mains	5.6 kW
Energy Consumption	16803 kWh (3000 h/year)
Running Cost / Year	£2016
Air Density	1.2 kg/m³ / 20 °C / 0 m / 50% RH
Smoke Venting	Non Smoke Venting
Product Number	EE591271

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.

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

	Sound Spectrum (Hz)								Overall	
	63	125	250	500	1k	2k	4k	8k	Lw*	LpA @ 3 m**
Inlet*	91	90	93	90	89	86	83	80	98	73
Outlet*	94	90	95	91	89	87	83	81	99	74
Breakout*	84	69	69	66	64	60	64	57	84	49

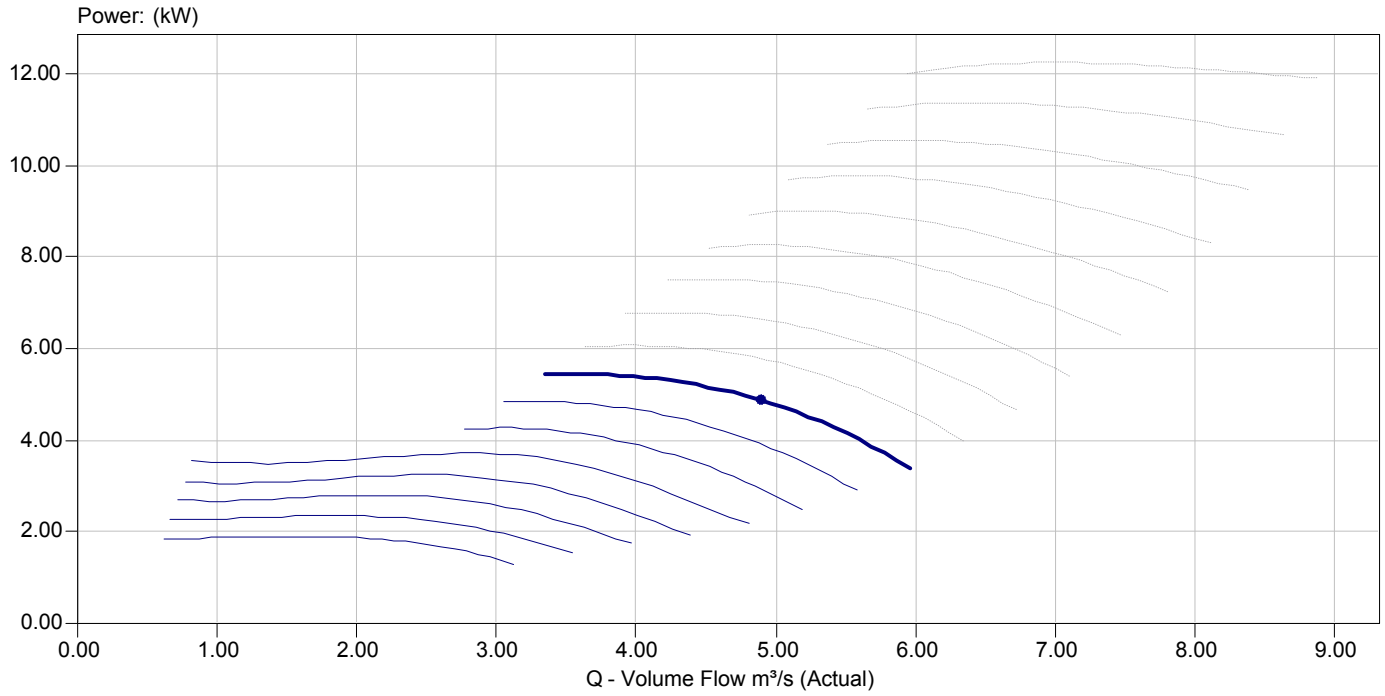
* Lw dB re 10^{-12} W ** dBA re $2x10^{-5}$ Pa

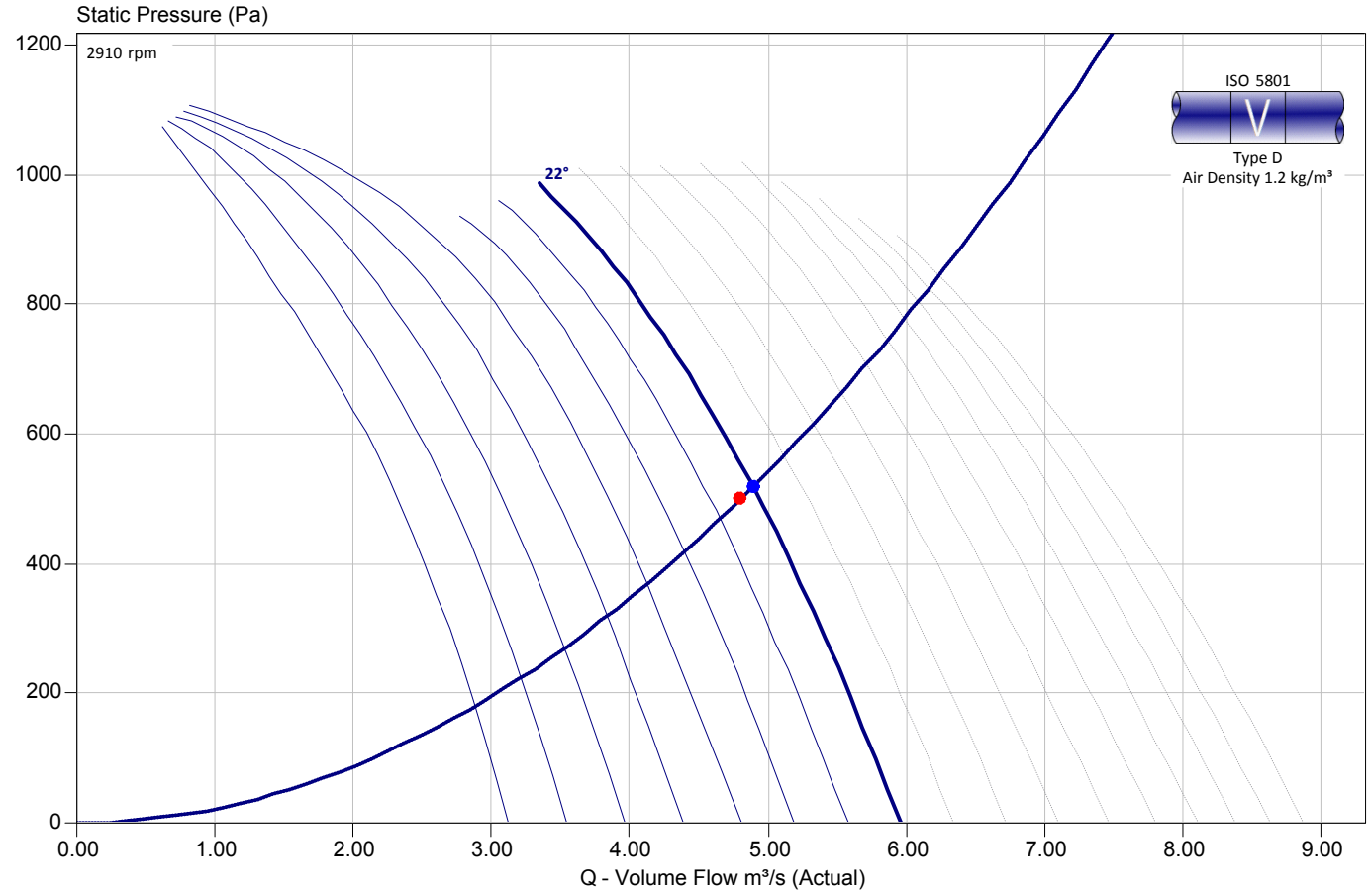
Sound data at requested duty.

Description	Qty
Fan	
EE591271 - 56JM/20/2/6/22	1
Accessories	

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Quotation Number	: KP42688	Project Code	: AF-3085-1
Project Name	: Beat Street	Customer	: Swan Projects
Item Reference:	: Fan 1	Date:	: Friday, January 22, 2016
		Fan Code	: 56JM/20/2/6/22

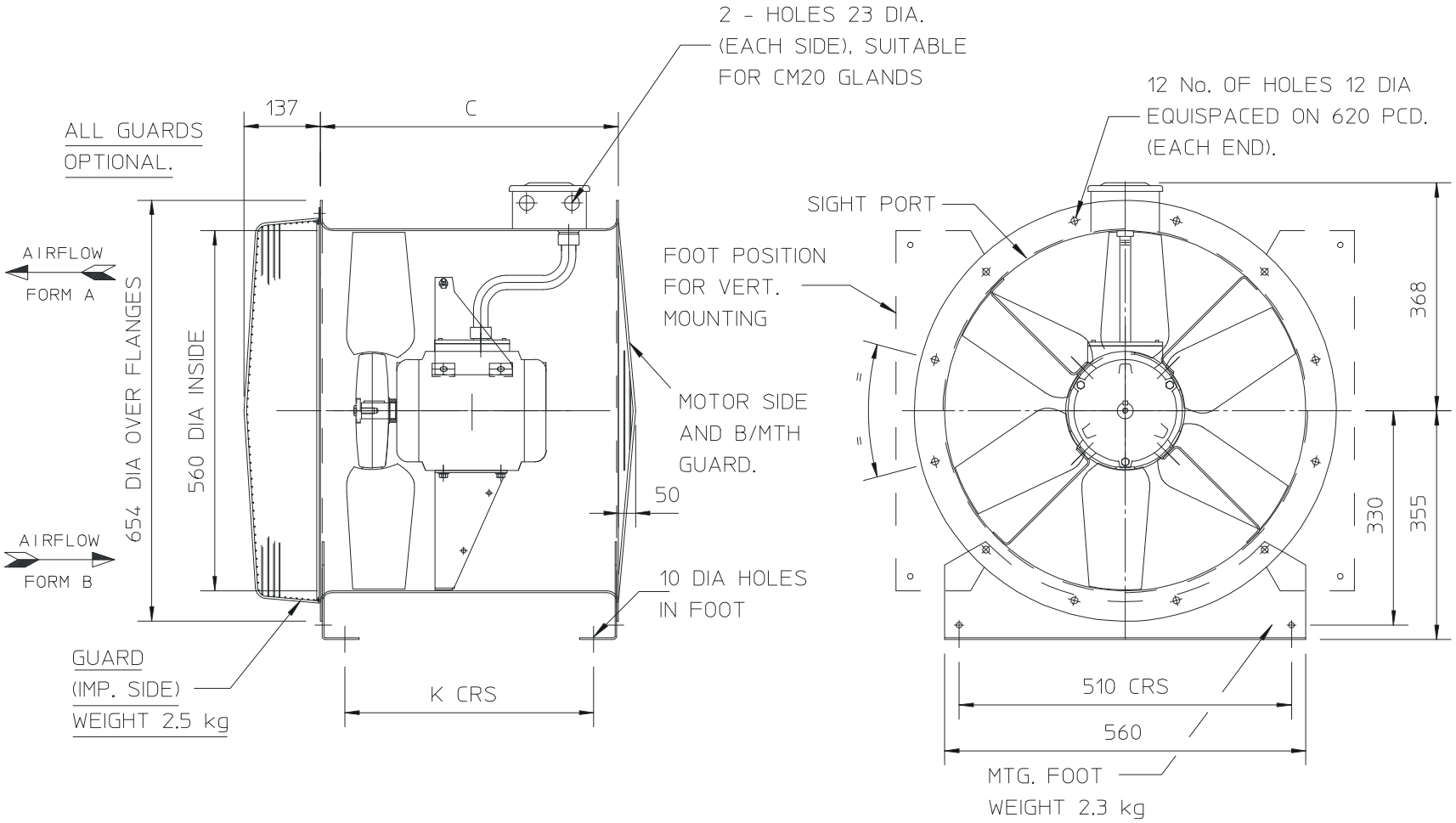




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Quotation Number	:	KP42688	Fan Code	:	56JM/20/2/6/22
Project Name	:	Beat Street	Customer	:	Swan Projects
Item Reference:	:	Fan 1	Date:	:	Friday, January 22, 2016

C	520
K	424
Weight (kg)	78



Notes : Dimensions shown in mm / Weight in kg

Reference :D275256

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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Northern Fan Supplies Ltd
Technical Data Sheet
JM Aerofoil

Quotation Number	:	KP42688	Project Code	:	AF-3085-2
Project Name	:	Beat Street	Customer	:	Swan Projects
Item Reference:	:	Fan 2	Date:	:	Friday, January 22, 2016

Fan Code	50JM/20/2/6/24
Fan Diameter / Size	500 Size / mm
Blades	6
Fan Speed	2910 rpm
Velocity	17.0 m/s
Blade Angle	24°
Installation Type / Form of Running	D / B
Fan Casing	Long
Requested Duty	3.2m³/s @ 500 Pa (static)
Actual Duty	3.34m³/s @ 543 Pa (static)
Outlet Dynamic Pressure	173 Pa
Duty Shaft Power	3.37 kW
Max Shaft Power	3.65 kW
Total Efficiency	70.9 %
Motor Frame	112M
Motor Rating	6.20 kW [IE2]
Full Load Current	11.7 A
Starting Current	77.2 A
Motor Mounting	Pad
Electrical Supply	380-420 Volts 50 Hz 3 Phase
Start Type	DOL
Motor Winding	Standard
Enclosure	Standard All
ErP [FMEG] Rating	N 64 (ErP Compliant 2015)
ErP [FMEG] Target	N 58
FMEG Blade Angle [Range]	22° [10° - 34°]
Measurement Category	D (Total)
VSD	N
Fan + Motor Efficiency	61.7% (3.09 m³/s @ 696 Pa)
Motor Input Power (ErP)	3.49 kW
SFP value	1.16 W/(l/s) @ Actual Duty
Power from mains	3.89 kW
Energy Consumption	11657 kWh (3000 h/year)
Running Cost / Year	£1399
Air Density	1.2 kg/m³ / 20 °C / 0 m / 50% RH
Smoke Venting	Non Smoke Venting
Product Number	EJ531274

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.

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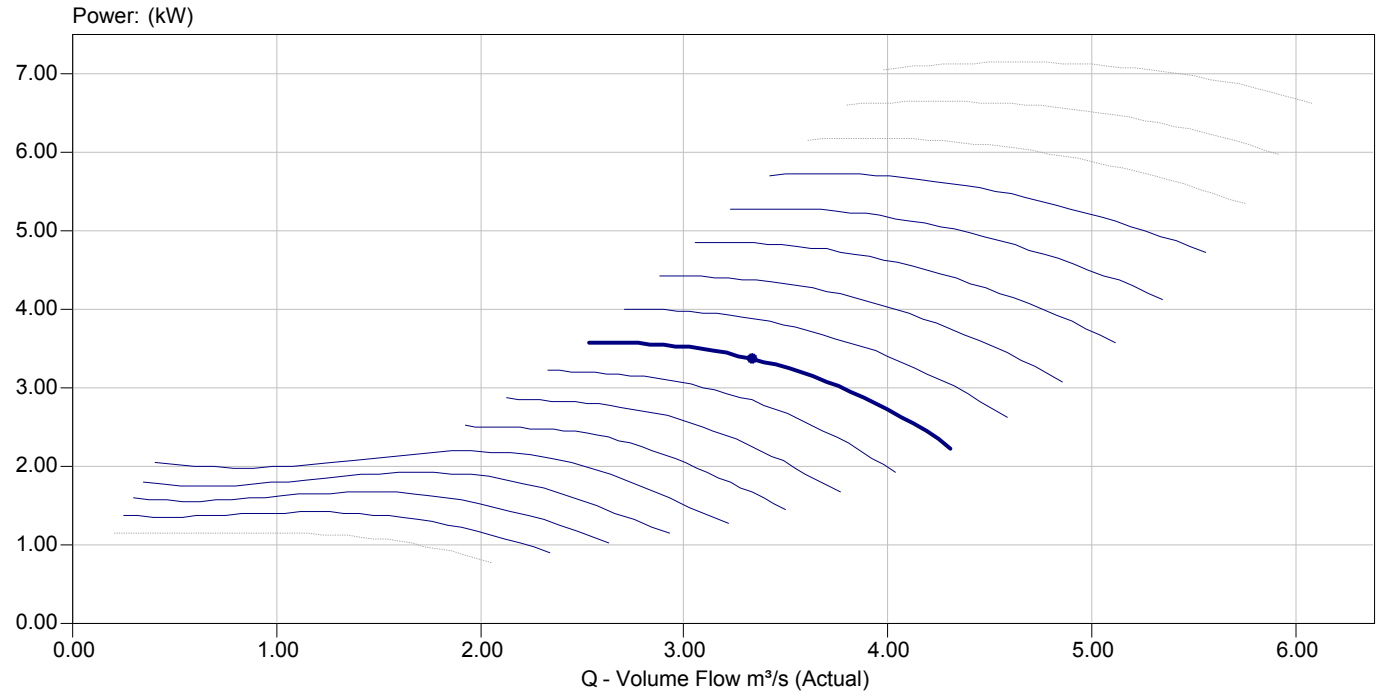
	Sound Spectrum (Hz)								Overall	
	63	125	250	500	1k	2k	4k	8k	Lw*	LpA @ 3 m**
Inlet*	88	88	90	87	86	84	80	77	95	70
Outlet*	91	88	92	88	86	85	81	78	97	71
Breakout*	81	70	70	65	61	57	59	54	81	47

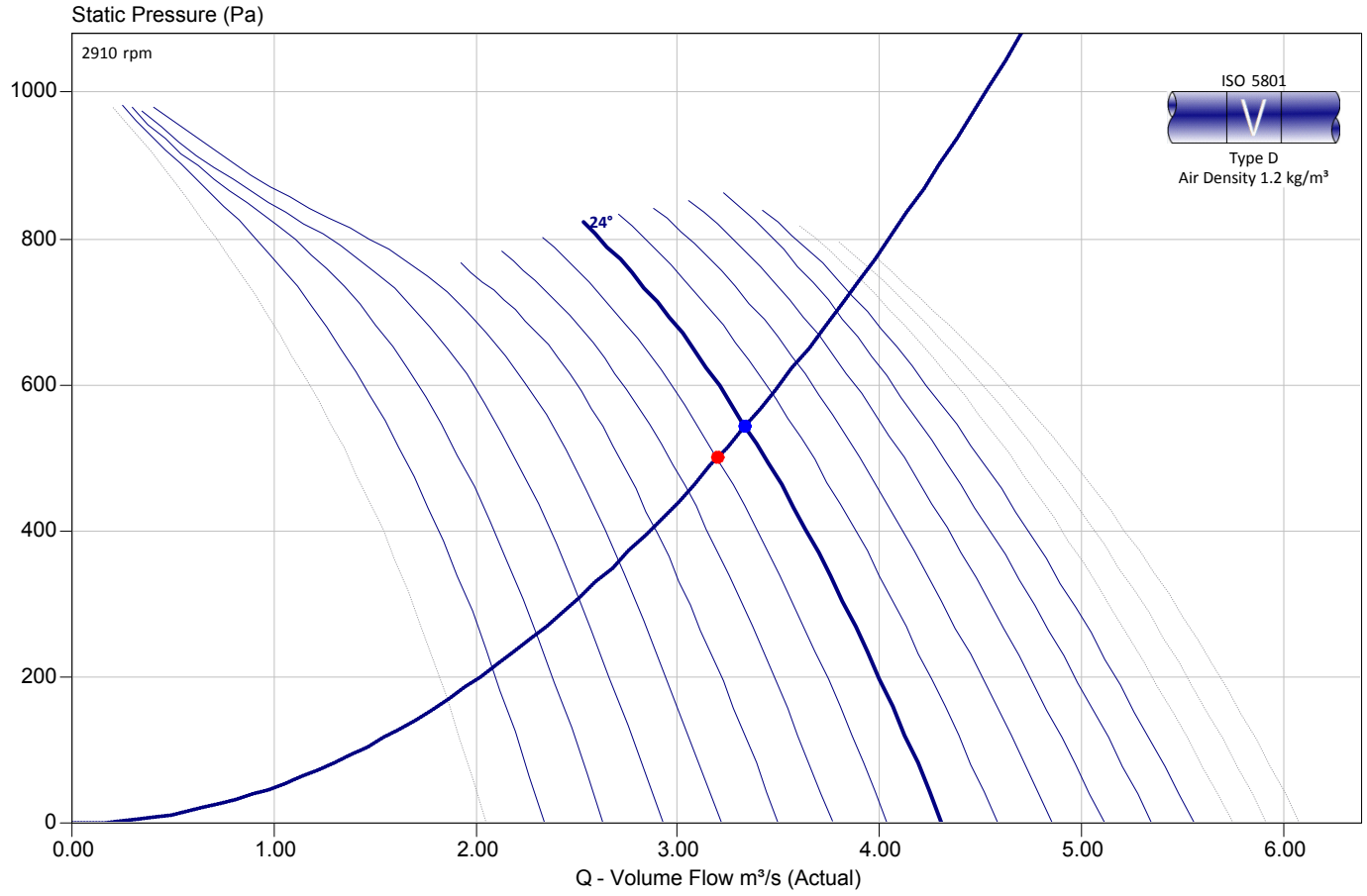
* Lw dB re 10^{-12} W ** dBA re $2x10^{-5}$ Pa
Sound data at actual duty.

Description	Qty
Fan	
EJ531274 - 50JM/20/2/6/24	1
Accessories	

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Quotation Number	: KP42688	Project Code	: AF-3085-2
Project Name	: Beat Street	Customer	: Swan Projects
Item Reference:	: Fan 2	Date:	: Friday, January 22, 2016
		Fan Code	: 50JM/20/2/6/24

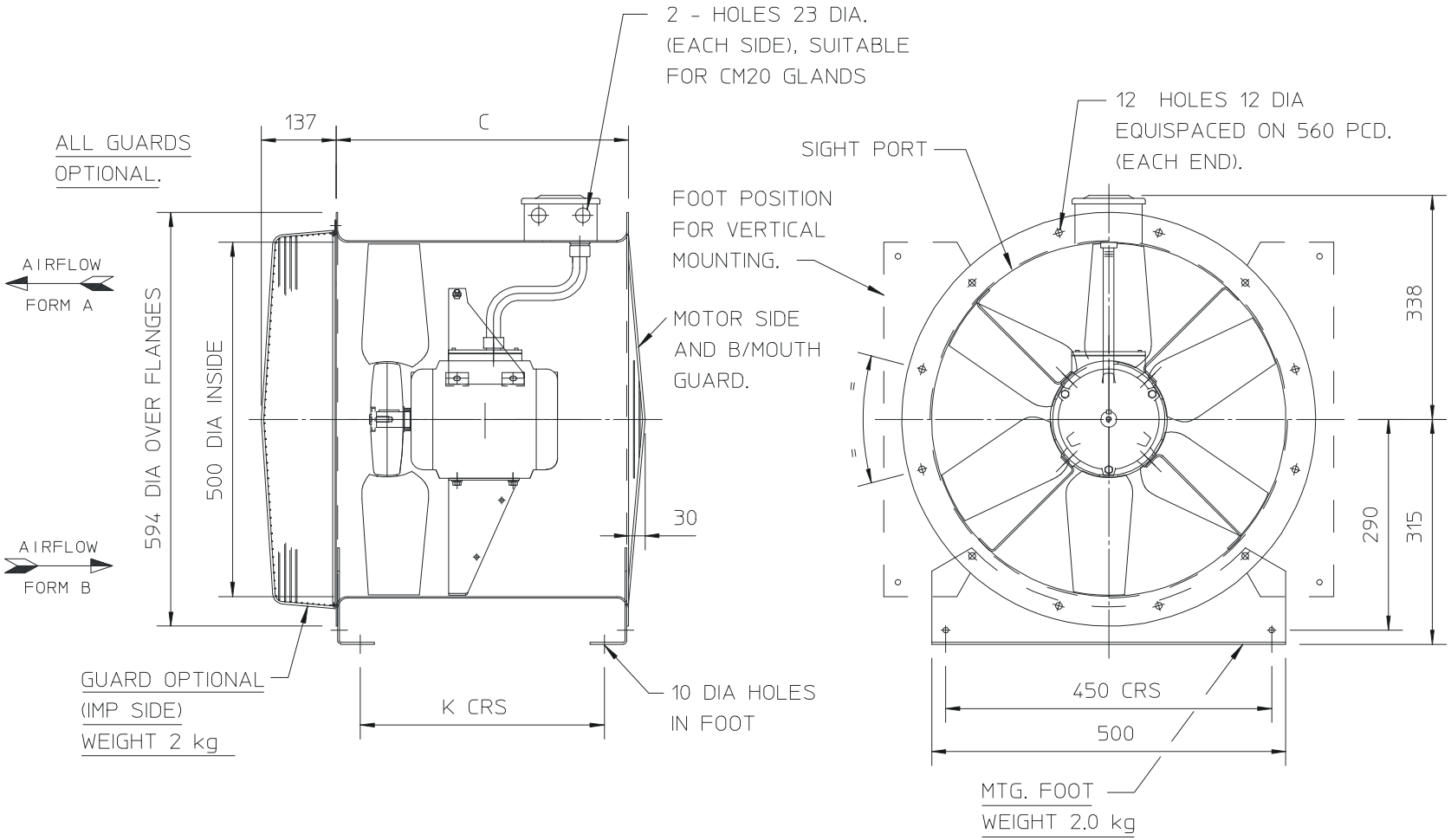




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Quotation Number	:	KP42688	Fan Code	:	50JM/20/2/6/24
Project Name	:	Beat Street	Customer	:	Swan Projects
Item Reference:	:	Fan 2	Date:	:	Friday, January 22, 2016

C	520
K	434
Weight (kg)	76



Notes : Dimensions shown in mm / Weight in kg

Reference :D275255

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