



CASED AXIAL JM AEROFOIL

PRODUCT FACTS

- Air flow up to 20.9 m³/s
- Static pressures up to 1100 Pa
- Fans tested to ISO5801 and BS848
- High energy efficiency
- Low installed noise levels
- Motor protection and terminal block IP55
- Larger sizes available please enquire for more information

ELECTRICAL SUPPLY

220-240V/50Hz/1φ & 380-420V/50Hz/3φ

TEMPERATURE RANGE

-40°C to 50°C as standard. 50°C to 70°C must be run at full speed only.

SIZES

315, 355, 400, 450, 500, 560, 630, 710, 800, 900 & 1000 mm

IMPELLERS

A unique high efficiency aerofoil section blade with a smoothed hub and clamp plate for adjustable pitch angle availability.

Woods impellers are all high pressure die cast to offer thin aerofoil sections for low generation of noise. Every cast aluminium component is X-ray examined using Real Time Radiography inspection prior to assembly. The maximum pitch angles shown allow for speed control by frequency inverter (3ph only).

MOTORS

All motors are totally enclosed air stream rated class F insulation. Constructed from aluminium or cast iron as standard with special 'T' slot, or pad mounted fixings. Single speed motors are suitable for speed control by voltage regulation where indicated. Three phase motors are suitable for use with frequency inverters, suitable for turn down to 20% of maximum speed. Two speed motors are available on request. Suitable for horizontal or vertical shaft operation. Supplied IP55, with removable drain plugs.

Sealed for life bearings lubricated with wide temperature range grease. The BT and CT frames are fitted with overheat protection thermostat as standard. 80-160 frame motors are fitted with Thermistor OHP. These motors are suitable for inverter/speed control down to 20% of full speed and where within scope incorporate IE2 compliant motors.



CASING

JM Aerofoil fans are available in either a long cased form, complete with an externally mounted pre-wired electrical terminal box, or short cased for duct or plate installation. Casings are spun from sheet steel with integral pre-drilled and radiused inlet flanges. The galvanised finish gives a high resistance to corrosion and is ideal for external as well as internal use.

PRODUCT CODE

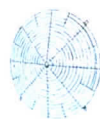
63JM/20/4/6/36

- 63 - denotes the fan impeller diameter in centimetres
- JM - denotes fan type
- 20 - denotes impeller hub diameter in centimetres
- 4 - denotes a nominal 4 pole speed
- 6 - denotes the number of blades
- 36 - denotes the pitch angle for the required duty

ACCESSORIES (Pages 230-237) - CONTROLLERS (Pages 249-297)



Damper



Guard



Bellmouth



Flange



Mounting Feet



Rubber AV's



Acoustic Jacket



Flexible Connector



Silencer



Controls Transformer



Controls Electronic

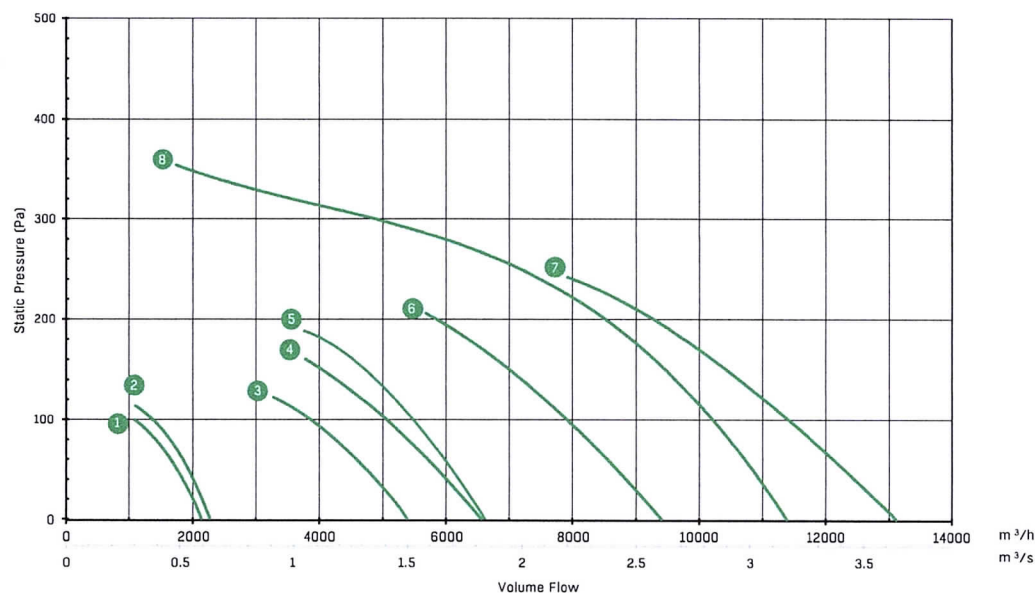


Controls Inverter

JM AEROFOIL PERFORMANCE AND ELECTRICAL DATA

220-240V/50HZ/1 ϕ - L TYPE

PERFORMANCE CHART - 315-630MM



PERFORMANCE TABLE - 315-630MM

Ref	Ref	m³/s @ Pa (Static)					
		0	50	100	150	200	300
1	31JM/16/4/5/34	0.59	0.48				
2	35JM/16/4/5/22	0.63	0.53	0.37			
3	40JM/16/4/5/40	1.5	1.31	1.07			
4	45JM/16/4/5/30	1.82	1.62	1.4	1.12		
5	50JM/20/4/6/20	1.84	1.68	1.52	1.3		
6	50JM/20/4/6/32	2.61	2.41	2.19	1.94	1.62	
7	56JM/20/4/6/30	3.64	3.41	3.16	2.89	2.57	
8	63JM/20/4/6/16	3.17	3.01	2.82	2.61	2.38	1.99 1.33

PRODUCT AND ELECTRICAL DETAILS - 315-630MM

Ref	Product Code	Product Number	Pitch Angle (°)		Speed rev/min	Motor	Rating (kW)	Full Load Current (A)	Starting Current (A)	Wiring Diagram (CD)	Speed Controller	
			Min	Max							Electronic	Transformer
1	31JM/16/4/5/34	EJ321460	28	34	1420	BTS	0.075	0.5	1.45	CD3038	ME1.1	TEID 1
2	35JM/16/4/5/22	EJ361460	18	22	1420	BTS	0.075	0.5	1.45	CD3038	ME1.1	TEID 1
3	40JM/16/4/5/40	EJ411452	34	40	1420	BT9	0.25	1.6	3.45	CD3038	ME1.3	TEID 2.2
4	45JM/16/4/5/30	EJ461466	24	30	1420	BT9	0.32	2.2	5	CD3038	ME1.3	TEID 2.2
5	50JM/20/4/6/20	DX511455	16	20	1420	BT9	0.32	2.2	5	CD3038	ME1.3	TEID 2.2
6	50JM/20/4/6/32	EJ511466	32	32	1420	CT9	0.68	4.8	11	CD3038	ME1.6	TEID 5
7	56JM/20/4/6/30	DX571459	26	30	1420	CT9	0.97	6.9	13.5	CD3037	ME1.6	TEID 7.5A
8	63JM/20/4/6/16	DX641453	14	16	1420	CT9	0.97	6.9	13.5	CD3037	ME1.6	TEID 7.5A

For ErP efficiency ratings and grades please refer to our Fan Selector for more information. For speed controllers please see pages 219-267.

Products in **bold** are available from our UK Distributors on next day delivery, if ordered by 4pm. Please call to confirm availability on 01206 222 580.

