



Bifurcated Conical Axial Flow Fan

ELSB



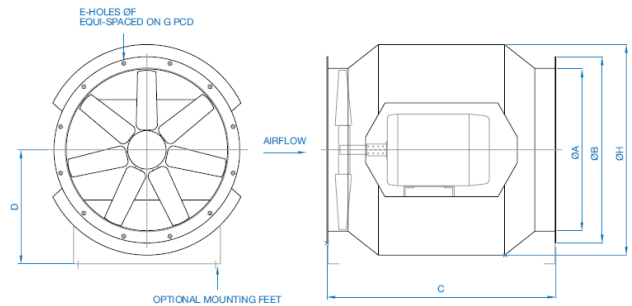
Dimensions

A	B	C	D	E	F	G	H	Weight kg
250	325	460	220	8	10	299	400	23
250	325	460	220	8	10	299	400	23
250	325	460	220	8	10	299	400	23
315	380	500	250	8	10	355	460	30
315	380	500	250	8	10	355	460	31
315	380	500	250	8	10	355	460	30
400	485	650	305	8	12	450	570	49
500	585	710	370	12	12	560	700	86

Overview

A range of bifurcated axial fans, specially developed with motor out of the airstream to handle more hostile air movement applications.

- 4 standard sizes from 250mm to 500mm
- Air volume flow rates up to 3.803 m³/s
- Static pressures up to 608 Pa
- Suitable for operating temperatures up to +200°C
- Available in AC



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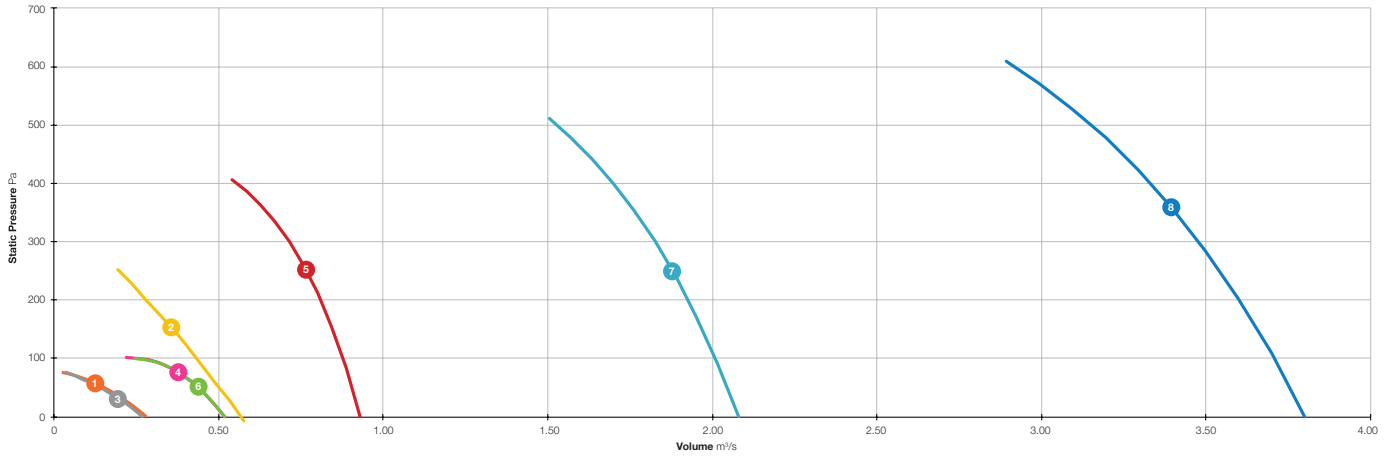
2023-07-04





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- 1 ELSB250 / CON4-1
- 2 ELSB250 / CON2-3
- 3 ELSB250 / CON4-3
- 4 ELSB315 / CON4-1

- 5 ELSB315 / CON2-3
- 6 ELSB315 / CON4-3
- 7 ELSB400 / CON2-3
- 8 ELSB500 / CON2-3



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Product Coding

Code	Reference
SB	Product Range
250	Diameter (250/315/400...)
/	
4	Number of Poles (2/4/6)
-	
1	Voltage Supply (Single Phase / Three Phase)
AC	Motor Type (AC/EC)
A - Z	Additional Coding (A - Z) Product Variants
e.g.	SB250 / CON4 - 1AC

High Temperature

Class H motors out of the airstream are not effected by contaminates in the ventilated air. Suitable for elevated temperatures of up to 200°C.

Efficient Performance

High Efficiency Adjustable pitch aerofoil impellers are provided with blades made from high quality pressure die cast aluminium.

Corrosion resistance

The fan casing is dip galvanised after fabrication to BS 729, offering enhanced corrosion resistance.

Weather Resistance

The fans are suitable for external mounting as standard.

Long Life

Motor is isolated from hot and contaminated air, prolonging the life of the fan.

Warranty

Each SB has a 12 month warranty.

Construction

Constructed from sheet steel with both motor and impeller mounted within the length of the unit casing.

Motor

Motors are foot mounted, totally enclosed fan cooled, IP55, with sealed for life bearings with a standard industrial paint finish and Class H insulation to EN 60034-5.

Impeller

Adjustable pitch aerofoil impellers are provided with blades made from high quality pressure die cast aluminium (LM6), natural finish. Impellers are factory set at an angle to provide maximum performance. The hubs are manufactured from die cast aluminium alloy (LM24). Assembled impellers are to be dynamically balanced to ISO 14694 Grade G6.3.

Typical Applications

- Kitchen Extract
- Spray Booths
- Hot Gas Situations
- Corrosive Atmospheres
- Boiler Houses
- Heavy Industrial



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Performance, SFP & Electrical Data

Single Phase 220V to 240V / 50Hz

Product Code	Speed r/min	Airflow SFP	Airflow m ³ /s @ Static Pressure Pa								At Best Efficiency Point	Electrical Data		dBA @ 3m			
			0	25	50	75	100	150	200	250	Output kW	Peak Amps					
ELSB250-CON4-1	1450	m ³ /s	0.280	0.223	0.150	0.029	-	-	-	-	-	-	-	0.120	1.13	Inlet	48
ELSB315-CON4-1	1370	m ³ /s	0.521	0.483	0.439	0.383	0.257	-	-	-	-	-	-	0.120	1.13	Inlet	51

Three Phase 380V to 415V / 50Hz

Product Code	Speed r/min	Airflow SFP	Airflow m ³ /s @ Static Pressure Pa												At Best Efficiency Point	Electrical Data		dBA @ 3m	
			0	25	50	75	100	150	200	250	300	350	400	500	Output kW	Peak Amps	Δ / Y		
ELSB250-CON2-3	2780	m ³ /s	0.566	0.535	0.502	0.468	0.434	0.360	0.282	0.198	-	-	-	-	0.250	0.68	Mains	Inlet	61
ELSB250-CON4-3	1370	m ³ /s	0.270	0.211	0.140	0.040	-	-	-	-	-	-	-	-	0.120	0.48	Mains	Inlet	48
ELSB315-CON2-3	2780	m ³ /s	0.931	0.919	0.906	0.892	0.878	0.848	0.810	0.768	0.716	0.648	0.554	-	0.550	1.18	Mains	Inlet	64
ELSB315-CON4-3	1370	m ³ /s	0.521	0.483	0.439	0.383	0.257	-	-	-	-	-	-	-	0.120	0.48	Mains	Inlet	51
ELSB400-CON2-3	2800	m ³ /s	2.082	2.065	2.047	2.029	2.010	1.969	1.926	1.878	1.825	1.766	1.698	1.527	2.200	4.42	Mains	Inlet	70
ELSB500-CON2-3	2840	m ³ /s	3.803	3.780	3.756	3.732	3.707	3.655	3.600	3.541	3.477	3.408	3.332	3.152	4.000	7.49	Mains	Inlet	80



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Sound Data

Single Phase 220V to 240V / 50Hz

Product Code		Sound Power Level dBW @ Octave Band Hz								Total dB
		63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
ELSB250-CON4-1	Inlet	77	74	71	64	62	60	57	47	80
ELSB315-CON4-1	Inlet	80	77	74	68	66	64	62	53	83

Three Phase 380V to 415V / 50Hz

Product Code	Speed r/min		Sound Power Level dBW @ Octave Band Hz								Total dB
			63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
ELSB250-CON2-3	2780	Inlet	83	81	79	78	77	75	73	69	88
ELSB250-CON4-3	1370	Inlet	77	74	71	64	62	60	57	47	80
ELSB315-CON2-3	2780	Inlet	90	86	82	81	80	77	77	71	93
ELSB315-CON4-3	1370	Inlet	80	77	74	68	66	64	62	53	83
ELSB400-CON2-3	2800	Inlet	94	87	86	90	84	83	80	73	97
ELSB500-CON2-3	2840	Inlet	98	93	90	96	96	95	93	89	104



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