



























# Biflow SB (CYL) Product Brochure

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### Biflow SB (CYL)

#### Bifurcated Conical Axial Flow Fan



OVERVIEV

The Biflow SB (CYL) is a quality range of bifurcated axial fans with a cylindrical casing, specially developed for handling more hostile air movement applications. The Biflow SB is designed so that air throughput totally by-passes the motor, keeping the motor out of the airstream in a cooler environment.

# MORE INFORMATION Performance, SFP & Electrical Data Sound Data Accessories & Wiring Data Jimensional Data ACCESSORIA ACCESSORIA

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- √ 3 standard sizes from 400mm to 630mm.
- ✓ Air volume flow rates up to 4.50 m<sup>3</sup>/s.
- √ Static pressures up to 200 Pa.
- ✓ Suitable for operating temperatures up to +200°C.
- √ Ideal for internal or external mounting.

#### **CASING**

The all metal fan casing provides a long lasting and robust construction.

The units have been constructed form sheet steel with both motors and impeller mounted within the length of the unit casing. The motor is located out of the airstream in a single entry tunnel into the casing making the unit suitable for temperatures up to +200°C.

All casing parts are heavy gauge mild steel sheet, roll formed and welded, then hot dip galvanised to BS EN ISO 1461:1999 after fabrication.

#### **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.

#### **MOTORS**

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

#### **QUALITY MANAGEMENT**

Units are to be designed and manufactured with procedures as defined in BS EN ISO 9001:2008.

All SB (CYL) units are to be tested to ISO 5801:2007 (airside performance) and BS 848 Part 2:1985 (sound performance).

#### TYPICAL APPLICATIONS

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











Elta Fans Limited has a policy of continuous product development and improvement and therefore reserves the right to supply products which may differ from those illustrated and described in this publication. Confirmation of dimensions and data will be supplied on request.

## Biflow SB (CYL)

#### Performance, SFP & Electrical Data



#### THREE Phase - 380V to 415V / 50Hz

Product Code	Speed		Airflow m³/s @ Static Pressure Pa.							Motor Electrical Data			dBA @
	r/min	Airflow		25	50	75	100	150		FLC Amps	SC Amps	Output kW	3m
SB400-CYL4-3	1400	m³/s	1.010	0.961	0.900	0.821	0.699			0.69	3.80	0.25	84
SB500-CYL4-3	1415	m³/s	2.300	2.230	2.140	2.040	1.920	1.520		1.65	10.9	0.75	86
SB630-CYL4-3	1410	m³/s	4.501	4.393	4.280	4.162	4.039	3.771	3.442	4.43	30.9	2.20	95

The overall A-weighted sound pressure level is at a distance of 3m with spherical free-field propagation.

#### Sound Data

#### THREE Phase - 380V to 415V / 50Hz

Product Code		In-duct Sound Power Level dBW @ Octave Band Hz								Silencer dBA Attenuation			
		63Hz	125Hz	250Hz	500Hz	1 kHz	2 kHz	4 kHz	8 kHz	1DENP	2DENP	1DEP	2DEP
SB400-CYL4-3	Inlet	80	77	76	72	71	69	66	56	-9	-13	-11	-15
	Outlet	-	-	-	-	-	-	-	-	-	-	-	-
SB500-CYL4-3	Inlet	80	79	78	77	79	76	73	66	-10	-15	-13	-15
	Outlet	-	-	-	-	-	-	-	-	-	-	-	-
SB630-CYL4-3	Inlet	89	87	85	85	85	85	83	78	-9	-13	-14	-21
	Outlet	-	-	-	-	-	-	-	-	-	-	-	-

The overall A-weighted sound pressure level is at a distance of 3m with spherical free-field propagation.

#### Accessories & Wiring Data

For more information on Accessories & Wiring Diagrams, please see individual product downloads, or visit eltaselect.com/information-centre

#### THREE Phase - 380V to 415V / 50Hz

Product Code	Impeller Side Guard		Mounting Feet (each)	Matching Flanges (each)	Flexible Connections (each)	AV Mounts (set of 4)	Damper	Bell Mouth Inlet
SB400-CYL4-3	078C-0400-C	APK400SBCYL/S1G	060B-0400	061B-0400	063-0400-PU250	062-S1G	019-0400-STD	241B-0400-BELL
SB500-CYL4-3	078C-0500-C	APK500SBCYL/S2B	060B-0500	061B-0500	063-0500-PU250	062-S2B	019-0500-STD	241B-0500-BELL
SB630-CYL4-3	078C-0630-C	APK630SBCYL/S2	060B-0630	061B-0630	063-0630-PU250	062-S2	019-0630-STD	241B-0630-BELL

Product Code	Silencer 1D Podded	Silencer 1D Unpodded	Silencer 2D Podded	Silencer 2D Unpodded	Wiring Diagram No.
SB400-CYL4-3	068-0400-1DEP	068-0400-1DENP	068-0400-2DEP	068-0400-2DENP	152-600
SB500-CYL4-3	068-0500-1DEP	068-0500-1DENP	068-0500-2DEP	068-0500-2DENP	152-600
SB630-CYL4-3	068-0630-1DEP	068-0630-1DENP	068-0630-2DEP	068-0630-2DENP	152-600

Tests and preparation of the sound data have been carried out in accordance with BS 848 Part 2:1985 at 50% peak pressure. The Sound Power Level Spectra are in dB re-1pW.

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It is expressed in dB re-20 $\!\mu\text{Pa}$  and is presented for comparative purposes only.

Outside the scope of ISO12759 and ERP legislation.

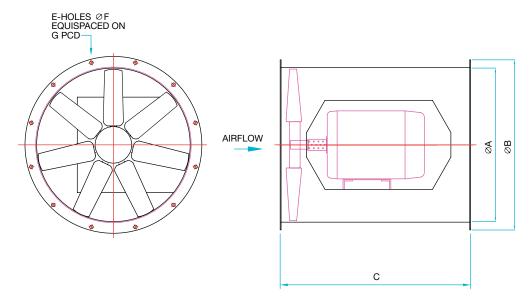
Data provided at standard air density of 1.2 kg/m³. FLC Amps @ 400V / 3Ph / 50Hz.

It is expressed in dB re-20µPa and is presented for comparative purposes only

# Biflow SB (CYL)

#### Dimensional Data





Product Code	A	В	С	E	F	G	Weight kg
SB400-CYL4-3	400	475	450	8	12	450	29
SB500-CYL4-3	500	585	450	12	12	560	47
SB630-CYL4-3	630	715	570	12	12	690	78

All dimensions are expressed in mm.

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