



# SLCX ATEX

t: 01384 275800  
f: 01384 275810  
e: [bs@eltafans.co.uk](mailto:bs@eltafans.co.uk)  
visit: [eltaselect.com](http://eltaselect.com)



AXIAL



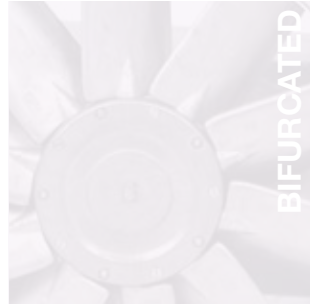
MIXED FLOW



CENTRIFUGAL



ROOF



BIFURCATED



DESTRATIFICATION



ATEX



SMOKE



CIRCULATING



WINDOW / WALL



HEAT RECOVERY



ACCESSORIES

CONTROLS

The Select Catalogue has a number of symbols and icons, designed to make the catalogue quicker and easier to use. An explanation of these are listed below:

### Application Icons

Applications are now represented via a set of pictorial icons. The application icons key is featured on the facing page. Some applications have been grouped together, where the environmental conditions have similarities.

### New Products

The icon to the right indicates a new addition to the Select product range. This will be displayed on the introductory page of each product and can also be seen on the contents page for each category.



**Raptor SPA**
axial

Plate Mounted Axial Flow Fan
new product

**OVERVIEW**

The Raptor SPA incorporates the BAT (Best Available Technology) FE20wvlet sickle bladed aerofoil profiled impeller, with serrated trailing edges and vanes powered by the ultra reliable Ziehl-Abegg external rotor motor. The fan design, construction and finish provides a strong, durable and weatherproofed range, that boasts low noise and increased efficiency.

**QUICK FACTS**

- ✓ 9 standard sizes from 250mm to 710mm.
- ✓ Air volume flow rates of up to 6,27 m<sup>3</sup>/s.
- ✓ Static pressures of up to 298 Pa.
- ✓ Suitable for operating temperatures up to +70°C.
- ✓ Extensive stock range available.

**CASING**

The all metal fan casing and guard provide a long lasting and robust construction. The units have been constructed from mild steel and suitably treated to ensure full corrosion protection. The guard is powder coated powder epoxy paint finish to black (RAL 9005).

Fan plates are powder coated powder epoxy paint finish in powder grey (RAL 7035).

**MOTORS**

Motors are highly efficient, lightweight external rotor motors, resistant to Class F, with integral thermal overload protection.

Size 250-500 manufactured to the IEC class 400-710 weatherproofed to IP54. All fans are suitable for use with a speed controller.

Electrical connection to the motor shall be provided by an IP55 terminal box. Wired to a ring lead allowing the fan to be powered conveniently to incoming electrical inputs.

**TYPICAL APPLICATIONS**

**IMPELLER**

Impellers are high quality Ziehl-Abegg Sickle Blade or FE20wvlet in pressure die cast aluminium or high performance composite material providing enhanced aerodynamic properties, low noise and efficiency. They are dynamically balanced to ISO 1940 Grade G2.5 and treated in black (RAL 9005).

Ziehl-Abegg Sickle Blade or FE20wvlet impellers provide significant noise reduction.

**QUALITY MANAGEMENT**

Units are fully designed and manufactured with procedures as defined in ISO 9001:2008.

All SPA units are fully tested to ISO 9001:2007 (noise performance) and ISO 940 Part 2:1985 (sound performance).

**MORE INFORMATION**

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WIRING DATA	12
ACCESSORIES	13

CONTACT US: T: 01384 275800 F: 01384 275810 E: bs@eltafans.com VISIT: eltaselect.com

### More Information Box

A more information box now also features on each introductory product page. This makes it easier to locate any further information you may require by displaying the page number to refer to, or directing you to the website - [www.eltaselect.com](http://www.eltaselect.com).

### 2013

New legislation has driven change in the Elta Select range of products. Elta Fans have revolutionised both their new and existing product range to meet legislation directives, but also to incorporate the 'Best Available Technology'; creating a reliable efficient and powerful range of products. The products which conform to the 2013 legislation are indicated with the above logo. This logo is pictured both on the main product page and the category contents page.



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.

# Catalogue Guide

## Application Key

info

Each product has an indication of typical applications via a set of icons. Every icon is displayed below, along with the definition of what it represents.



Sports Hall  
Squash Courts  
Gymnasium



Schools  
Colleges



Shopping Mall



Shops  
Retail Parks  
Commercial



Kitchens



Factories  
Industrial Units



Warehousing



Shower Rooms  
Bathrooms  
Toilets  
Changing Rooms



Marine



Agriculture



Airports



Corrosive  
Atmospheres



Banks



Hospitals



Hotels



Restaurants  
Cafes  
Cafeterias  
Pubs



Theatres



Air Conditioning



Residential  
Public Buildings  
Entrance Halls



Underground  
Stations



Libraries



Offices



Laundries  
Utility Rooms



Temporary  
Ventilation  
Construction  
Sites



Enclosed Car  
Parks



Stairwell  
Pressurisation



Workshops  
Foundries  
Welding Bays  
Machine Shops  
Spray Booths  
Lift Motor Rooms



Marquees



Conference Halls



Cooling Towers  
Stations  
Boiler Houses  
Heavy Industrial



Hot Gas  
Situations



General HVAC

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# SLCX ATEX

## ATEX Long Cased Axial Flow Fan

ATEX



### OVERVIEW

The SLCX is a range of ATEX rated duct mounted axial fans, manufactured in heavy gauge sheet steel. These units are designed to meet the requirements for Hazardous Areas with carbon filled anti-static impeller blades.

### QUICK FACTS

- ✓ 11 standard sizes from 355mm to 710mm.
- ✓ Air volume flow rates of up to 6.8 m<sup>3</sup>/s.
- ✓ Static pressure of up to 800 Pa.
- ✓ Suitable for operating temperatures up to +40°C.
- ✓ Suitable for extract or supply systems.

### CASING

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

The units have been constructed from a single sheet of steel, with both motors and axial impellers mounted within the length of the unit casing.

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 carbon filled anti – static material,

Impellers are factory set at an angle to provide maximum performance.

Hubs are manufactured from die cast aluminium alloy (LM24).

Assembled impellers are dynamically balanced to ISO 14694 Grade G6.3.

### MOTORS

Motors according to Gas Zone, Ignition Temperature and Protection to Ex II 2G c IIC T4 X.

### QUALITY MANAGEMENT

Units are to be designed and manufactured with procedures as defined in BS EN ISO 9001:2008. All ATEX units are to be tested to ISO 5801:1997 (airside performance) and BS 848 Part 2: 1985 (sound performance).

### TYPICAL APPLICATIONS



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# SLCX ATEX

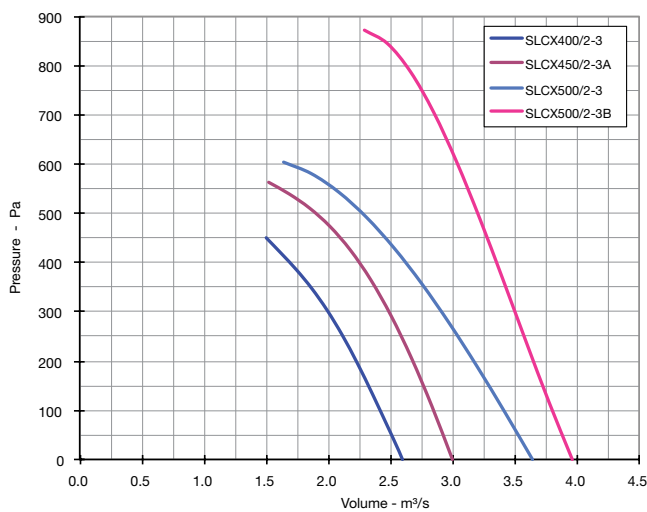
## Performance and Sound Data

THREE Phase - 380V-415V / 50Hz

Product Code	Speed r/min	Airflow SFP	Airflow m³/s @ Static Pressure Pa.												Overall Efficiency %	FMEG	Motor Electrical Data		
			0	25	50	75	100	150	200	250	300	350	400	500			FLC Amps	SC Amps	Output kW
SLCX355/4-3	1360	m³/s	0.86	0.82	0.77	0.72	0.65								28.4	-	1.1	3.74	0.37
		W/(L/s)	0.28	0.32	0.36	0.40	0.45												
SLCX400/2-3	2820	m³/s	2.60	2.55	2.51	2.46	2.42	2.32	2.22	2.12	2.00	1.86	1.69		44.6	-	5.0	2.8	2.2
		W/(L/s)	0.79	0.80	0.82	0.83	0.85	0.88	0.92	0.96	1.02	1.08	1.18						
SLCX400/4-3	1390	m³/s	1.34	1.29	1.24	1.17	1.09	0.85							31.1	-	1.6	6.56	0.55
		W/(L/s)	0.36	0.38	0.41	0.44	0.47	0.60											
SLCX450/2-3A	2820	m³/s	3.00	2.96	2.93	2.89	2.85	2.76	2.68	2.59	2.49	2.38	2.25	1.90	60.4	-	5	2.8	2.2
		W/(L/s)	0.47	0.49	0.51	0.53	0.55	0.60	0.65	0.69	0.75	0.80	0.87	1.05					
SLCX450/4-3B	1390	m³/s	1.98	1.90	1.83	1.75	1.67	1.44							57.6	-	9.75	7.79	9.75
		W/(L/s)	0.32	0.35	0.38	0.41	0.45	0.54											
SLCX500/2-3	2820	m³/s	3.64	3.58	3.53	3.47	3.41	3.29	3.17	3.04	2.91	2.78	2.62	2.27	48.1	-	5	28	2.2
		W/(L/s)	0.56	0.57	0.59	0.60	0.62	0.66	0.72	0.78	0.86	0.95	1.05	1.27					
SLCX500/2-3B	2900	m³/s	3.96	3.92	3.88	3.84	3.80	3.72	3.65	3.57	3.50	3.43	3.35	3.20	53.0	-	8	56	4
		W/(L/s)	0.89	0.91	0.93	0.95	0.97	1.00	1.04	1.09	1.13	1.17	1.22	1.32					
SLCX500/4-3	1380	m³/s	2.67	2.58	2.49	2.41	2.32	2.08	1.68						41.0	-	2.7	11.1	1.1
		W/(L/s)	0.37	0.40	0.43	0.45	0.47	0.53	0.64										
SLCX560/4-3	1380	m³/s	3.74	3.65	3.55	3.45	3.35	3.10	2.75						46.4	-	3.5	15.4	1.5
		W/(L/s)	0.38	0.41	0.43	0.45	0.48	0.53	0.60										
SLCX630/4-3	1410	m³/s	5.40	5.29	5.15	5.00	4.86	4.57	4.23	3.74					51.0	-	6.5	35.75	3.0
		W/(L/s)	0.42	0.44	0.47	0.49	0.51	0.56	0.61	0.69									
SLCX710/4-3	1410	m³/s	6.66	6.52	6.38	6.24	6.10	5.81	5.46	5.00	4.36				55.9	-	6.5	35.75	3.0
		W/(L/s)	0.38	0.40	0.43	0.45	0.47	0.52	0.57	0.62	0.71								

## Performance Curves

THREE Phase - 2 Pole

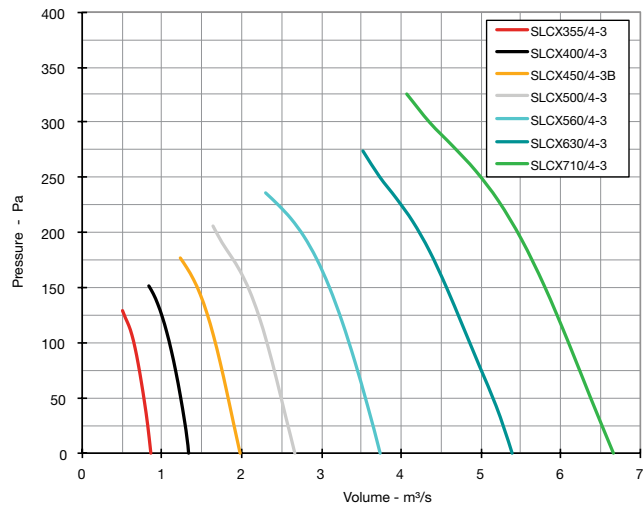


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# SLCX ATEX

## Performance Curves

THREE Phase - 4 Pole



## Sound Data

THREE Phase - 380V-415V / 50Hz

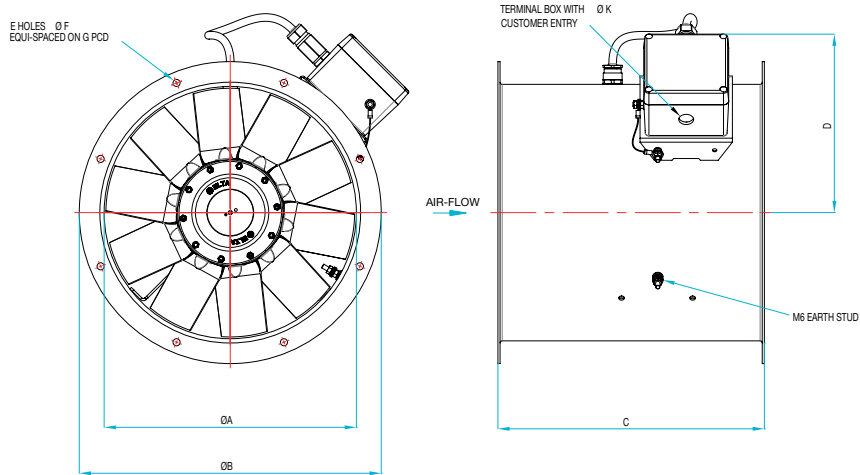
Product Code		In-duct Sound Power Level dBA @ Octave Band								dBA @ 3m
		63Hz	125Hz	250Hz	500Hz	1 kHz	2 kHz	4 kHz	8 kHz	
SLCX355/4-3	Inlet	64	68	69	62	66	65	59	48	50
	Outlet	67	67	72	64	64	63	60	53	49
SLCX400/2-3	Inlet	83	81	82	79	76	73	71	66	61
	Outlet	80	85	83	77	75	73	69	64	61
SLCX400/4-3	Inlet	69	68	69	68	70	68	62	54	53
	Outlet	70	69	73	70	67	66	63	56	53
SLCX450/2-3A	Inlet	88	81	84	81	84	82	80	72	68
	Outlet	84	82	86	81	84	82	80	76	68
SLCX450/4-3B	Inlet	72	71	72	71	73	71	65	57	56
	Outlet	73	72	76	73	70	69	66	59	56
SLCX500/2-3	Inlet	95	83	88	87	90	85	84	79	73
	Outlet	85	82	89	86	89	87	84	80	73
SLCX500/2-3B	Inlet	91	86	88	95	97	94	92	88	80
	Outlet	92	87	89	95	95	94	92	88	80
SLCX500/4-3	Inlet	71	73	74	76	79	76	75	64	62
	Outlet	78	75	78	75	74	73	71	64	59
SLCX560/4-3	Inlet	77	75	80	80	82	79	78	70	66
	Outlet	80	78	81	79	77	76	74	68	62
SLCX630/4-3	Inlet	80	73	81	80	82	78	79	72	66
	Outlet	81	80	83	81	80	78	77	70	65
SLCX710/4-3	Inlet	83	79	85	86	84	80	80	72	68
	Outlet	87	84	87	87	86	84	84	75	71

Tests and preparation of the sound data have been carried out in accordance with BS 848 Part 2:1985 at 50% peak pressure. The In-duct Sound Power Level Spectra are in dB re-1pW. The overall A-weighted sound pressure level is at a distance of 3m with spherical free-field propagation. It is expressed in dB re-20µPa and is presented for comparative purposes only.

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# SLCX ATEX

## Dimensional Data



Product Code	A	B	C	D	E	F	G	K	Weight kg
<a href="#">SLCX355/4-3</a>	355	425	375	255	8	10	395	M20	29
<a href="#">SLCX400/2-3</a>	400	475	400	270	8	12	450	M20	43
<a href="#">SLCX400/4-3</a>	400	475	400	270	8	12	450	M20	35
<a href="#">SLCX450/2-3A</a>	450	530	450	290	8	12	500	M20	47
<a href="#">SLCX450/4-3B</a>	450	530	450	290	8	12	500	M20	40
<a href="#">SLCX500/2-3</a>	500	585	450	310	12	12	560	M20	51
<a href="#">SLCX500/2-3B</a>	500	585	450	310	12	12	560	M20	68
<a href="#">SLCX500/4-3</a>	500	585	450	310	12	12	560	M20	47
<a href="#">SLCX560/4-3</a>	560	645	450	340	12	12	620	M20	63
<a href="#">SLCX630/4-3</a>	630	715	450	355	12	12	690	M20	64
<a href="#">SLCX710/4-3</a>	710	795	450	385	16	12	770	M20	70

All dimensions are shown in mm.

## Wiring Data

Please see our [Wiring Diagrams](http://www.eltaselect.com) download on [www.eltaselect.com](http://www.eltaselect.com) for more information.

THREE Phase - 380V-415V / 50Hz

Product Code	Wiring Diagram No.
<a href="#">SLCX355/4-3</a>	152-612
<a href="#">SLCX400/2-3</a>	152-612
<a href="#">SLCX400/4-3</a>	152-612
<a href="#">SLCX450/2-3A</a>	152-612
<a href="#">SLCX450/4-3B</a>	152-612
<a href="#">SLCX500/2-3</a>	152-612
<a href="#">SLCX500/2-3B</a>	152-612
<a href="#">SLCX500/4-3</a>	152-612
<a href="#">SLCX560/4-3</a>	152-612
<a href="#">SLCX630/4-3</a>	152-612
<a href="#">SLCX710/4-3</a>	152-612

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# SLCX ATEX

## Accessories

Please see our Accessories download on [www.eltaselect.com](http://www.eltaselect.com) for more information.

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

Product Code	Impeller Guard	Ancillary Pack*	Mounting Feet (each)	Matching Flanges (each)	Flexible Connections (each)	AV Mounts (set of 4)	Bell Mouth Inlet
<b>SLCX355/4-3</b>	078C-0350-C	APK350SI/S1G	060B-0350	061B-0350	063-0350-BM1060	062-S1G	241B-0350-BELL
<b>SLCX400/4-3</b>	078C-0400-C	APK400SI/S1G	060B-0400	061B-0400	063-0400-BM1060	062-S1G	241B-0400-BELL
<b>SLCX400/2-3</b>	078C-0400-C	APK400SI/S2B	060B-0400	061B-0400	063-0400-BM1060	062-S2B	241B-0400-BELL
<b>SLCX450/2-3A</b>	078C-0450-C	APK450SI/S2B	060B-0450	061B-0450	063-0450-BM1060	062-S2B	241B-0450-BELL
<b>SLCX450/4-3B</b>	078C-0450-C	APK450SI/S2B	060B-0450	061B-0450	063-0450-BM1060	062-S2B	241B-0450-BELL
<b>SLCX500/2-3</b>	078C-0500-C	APK500SI/S2	060B-0500	061B-0500	063-0500-BM1060	062-S2	241B-0500-BELL
<b>SLCX500/2-3B</b>	078C-0500-C	APK500SI/S2B	060B-0500	061B-0500	063-0500-BM1060	062-S2B	241B-0500-BELL
<b>SLCX500/4-3</b>	078C-0500-C	APK500SI/S2B	060B-0500	061B-0500	063-0500-BM1060	062-S2B	241B-0500-BELL
<b>SLCX560/4-3</b>	078C-0560-C	APK560SI/S2B	060B-0560	061B-0560	063-0560-BM1060	062-S2B	241B-0560-BELL
<b>SLCX630/4-3</b>	078C-0630-C	APK630SI/S2	060B-0630	061B-0630	063-0630-BM1060	062-S2	241B-0630-BELL
<b>SLCX710/4-3</b>	078C-0710-C	APK710SI/S2G	060B-0710	061B-0710	063-0710-BM1060	062-S2G	241B-0710-BELL

\*Consists of Flexible Connectors, Matching Flanges, AV Mounts and Mounting Feet.

Product Code	Silencer 1D Podded	Silencer 1D Unpodded	Silencer 2D Podded	Silencer 2D Unpodded
<b>SLCX355/4-3</b>	068-0350-1DEP	068-0350-1DENP	068-0350-2DEP	068-0350-2DENP
<b>SLCX400/2-3</b>	068-0400-1DEP	068-0400-1DENP	068-0400-2DEP	068-0400-2DENP
<b>SLCX400/4-3</b>	068-0400-1DEP	068-0400-1DENP	068-0400-2DEP	068-0400-2DENP
<b>SLCX450/2-3A</b>	068-0450-1DEP	068-0450-1DENP	068-0450-2DEP	068-0450-2DENP
<b>SLCX450/4-3B</b>	068-0450-1DEP	068-0450-1DENP	068-0450-2DEP	068-0450-2DENP
<b>SLCX500/2-3</b>	068-0500-1DEP	068-0500-1DENP	068-0500-2DEP	068-0500-2DENP
<b>SLCX500/2-3B</b>	068-0500-1DEP	068-0500-1DENP	068-0500-2DEP	068-0500-2DENP
<b>SLCX500/4-3</b>	068-0500-1DEP	068-0500-1DENP	068-0500-2DEP	068-0500-2DENP
<b>SLCX560/4-3</b>	068-0560-1DEP	068-0560-1DENP	068-0560-2DEP	068-0560-2DENP
<b>SLCX630/4-3</b>	068-0630-1DEP	068-0630-1DENP	068-0630-2DEP	068-0630-2DENP
<b>SLCX710/4-3</b>	068-0710-1DEP	068-0710-1DENP	068-0710-2DEP	068-0710-2DENP

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#### BUILDING SERVICES

**Tel:** +44 (0) 1384 275800  
**Fax:** +44 (0) 1384 275810  
**e-mail:** bs@eltafans.co.uk

46 Third Avenue  
Pensnett Trading Estate  
Kingswinford, West Midlands  
DY6 7US, United Kingdom

#### APPLIED TECHNOLOGY

**Tel:** +44 (0) 1489 566500  
**Fax:** +44 (0) 1489 566555  
**e-mail:** at@eltafans.co.uk

17 Barnes Wallis Road  
Segnesworth East Industrial Estate  
Fareham, Hampshire  
PO15 5ST, United Kingdom

#### EXPORT

**Tel:** +44 (0) 1489 566500  
**Fax:** +44 (0) 1489 566555  
**e-mail:** export@eltafans.co.uk

17 Barnes Wallis Road  
Segnesworth East Industrial Estate  
Fareham, Hampshire  
PO15 5ST, United Kingdom

[www.eltafans.com](http://www.eltafans.com)



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