REVOLUTION SLC

Long Cased Axial Flow Fan

ELTA

REVOLUTION SLC

Product Overview

- 11 standard sizes from 315mm to 1000mm
- Air volume flow rates up to 19.63 m³/s
- Static pressures up to 994 Pa
- Suitable for operating temperatures up to +60°C
- Available in IE5 **EC**

A true industry workhorse, this extensive range offers superb performance characteristics, combined with strength, durability and corrosion resistance for a longer life.

Easy Installation

Motors are wired via a weatherproofed cable to an IP55 protected terminal box mounted on the outside of the unit casing for ease of electrical connection.

Efficient Performance

High efficiency adjustable pitch aerofoil impellers are provided with blades made from high quality pressure die cast aluminium. Increased blade chord and twist provides 7% higher efficiency reducing overall energy consumption. Increased blade root reduces stress levels which make our range of impellers ideal for arduous fan applications.

Corrosion resistance

Suitable for external mounting as standard.

Controllability

IE5 EC fans can be directly connected via DC voltage 2 to 10V, DC current 4 to 20mA, Frequency 10 to 95% or a potentiometer. EC provides significant cost-savings through lower energy consumption.

Warranty

Each SLC has a 12 month warranty.

Construction

Units have been constructed from a single sheet of steel, with both motor and axial impeller mounted within the length of the unit casing. All casing parts are heavy gauge mild steel sheet, roll formed and welded for added strength and durability, hot dip galvanised to BS EN ISO 1461:2009.

Motor

High efficiency EC motors comply with the efficiency level IE5. Motors are foot mounted totally enclosed type to IP55 with sealed for life bearings for operating temperatures up to +60°C EC.

Impeller

Increased twist aerofoil impeller provides improved efficiency and acoustics suitable for higher stress applications. Blades are made from high quality pressure die cast aluminium (LM6), natural finish. Impellers are factory set at an angle to provide maximum performance.

Typical Applications

- Kitchen Canopy Systems
- Agriculture
- Sports Halls
- Industrial Units and Warehousing
- Factories
- Schools
- Air Conditioning Units
- Cooling Towers & Stations
- Marine
- Airports
- Hotels

Contents

Product Coding

Code	Reference
SLC	Product Range
315	Diameter (315/355/400...)
/	
4	Number of Poles (2/4/6)
–	
3	Voltage Supply (Single Phase / Three Phase)
EC	Motor Type (EC)
A - Z	Additional Coding (A - Z) Product Variants
e.g.	**SLC315 / 4-3EC**

Tel **+603 7846 0340** email **info@elta.asia** Website **elta.asia**

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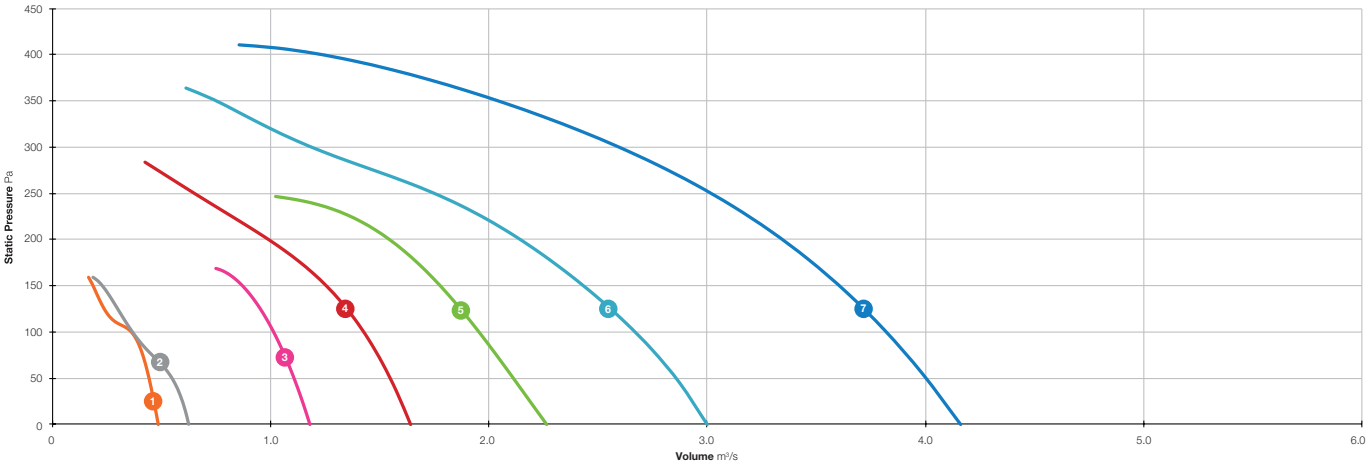
Performance Range Curves



1. SLC315 - 1EC
2. SLC355 - 1EC
3. SLC400 - 1EC
4. SLC450 - 1EC
5. SLC500 - 1EC
6. SLC560 - 1EC
7. SLC630 - 1EC

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Performance, SFP & Electrical Data

EC

Single Phase 220V to 277V / 50Hz or 60Hz

Product Code	Control Voltage V	Speed r/min	Airflow SFP	Airflow m³/s @ Static Pressure Pa								At Best Efficiency Point			Electrical Data	dBA @ 3m	
				0	25	50	75	100	150	200	250	Overall Eff %	FMEG N	Input kW	Peak Amps		
SLC315-1EC	10	1775	**m³/s**	**0.487**	**0.467**	**0.444**	**0.416**	**0.363**	**0.188**	-	-	45.2	<125W	0.106	0.92	Inlet	46
			W/(L/s)	0.17	0.19	0.21	0.24	0.29	0.56	-	-					Outlet	47
	8	1410	**m³/s**	**0.389**	**0.357**	**0.323**	**0.206**	**0.136**	-	-	-	39.0		0.063	0.57	Inlet	41
			W/(L/s)	0.13	0.16	0.19	0.29	0.46	-	-	-					Outlet	41
	5	805	**m³/s**	**0.214**	**0.118**	-	-	-	-	-	-	20.1		0.022	0.23	Inlet	28
			W/(L/s)	0.10	0.19	-	-	-	-	-	-					Outlet	29
	2	200	**m³/s**	**0.055**	-	-	-	-	-	-	-	0.8		0.007	0.10	Inlet	32
			W/(L/s)	0.10	-	-	-	-	-	-	-					Outlet	31
SLC355-1EC	10	1790	**m³/s**	**0.626**	**0.596**	**0.549**	**0.458**	**0.367**	**0.230**	-	-	41.3	<125W	0.112	1.09	Inlet	53
			W/(L/s)	0.14	0.16	0.20	0.25	0.32	0.58	-	-					Outlet	53
	8	1395	**m³/s**	**0.487**	**0.450**	**0.336**	**0.242**	**0.175**	-	-	-	36.9		0.063	0.65	Inlet	45
			W/(L/s)	0.11	0.13	0.20	0.29	0.43	-	-	-					Outlet	46
	5	810	**m³/s**	**0.275**	**0.137**	-	-	-	-	-	-	18.5		0.024	0.27	Inlet	34
			W/(L/s)	0.08	0.19	-	-	-	-	-	-					Outlet	36
	2	225	**m³/s**	**0.068**	-	-	-	-	-	-	-	1.3		0.008	0.11	Inlet	36
			W/(L/s)	0.11	-	-	-	-	-	-	-					Outlet	39
SLC400-1EC	10	1815	**m³/s**	**1.178**	**1.144**	**1.106**	**1.063**	**1.013**	**0.870**	-	-	61.1	70	0.285	2.54	Inlet	55
			W/(L/s)	0.18	0.20	0.22	0.24	0.27	0.33	-	-					Outlet	57
	8	1395	**m³/s**	**0.904**	**0.855**	**0.792**	**0.698**	**0.492**	-	-	-	54.1		0.136	1.32	Inlet	49
			W/(L/s)	0.12	0.14	0.16	0.20	0.27	-	-	-					Outlet	50
	5	795	**m³/s**	**0.505**	**0.393**	-	-	-	-	-	-	39.8		0.036	0.39	Inlet	42
			W/(L/s)	0.06	0.09	-	-	-	-	-	-					Outlet	43
	2	205	**m³/s**	**0.112**	-	-	-	-	-	-	-	2.6		0.007	0.11	Inlet	45
			W/(L/s)	0.05	-	-	-	-	-	-	-					Outlet	47
SLC450-1EC	10	1805	**m³/s**	**1.642**	**1.598**	**1.548**	**1.492**	**1.427**	**1.255**	**0.990**	**0.650**	61.7	70	0.424	3.65	Inlet	59
			W/(L/s)	0.18	0.20	0.23	0.26	0.28	0.34	0.44	0.63					Outlet	59
	8	1410	**m³/s**	**1.267**	**1.211**	**1.143**	**1.058**	**0.939**	**0.487**	-	-	59.7		0.215	1.99	Inlet	53
			W/(L/s)	0.12	0.15	0.17	0.20	0.23	0.43	-	-					Outlet	53
	5	810	**m³/s**	**0.696**	**0.601**	**0.295**	-	-	-	-	-	46.0		0.053	0.56	Inlet	46
			W/(L/s)	0.06	0.09	0.18	-	-	-	-	-					Outlet	46
	2	215	**m³/s**	**0.179**	-	-	-	-	-	-	-	5.0		0.009	0.13	Inlet	42
			W/(L/s)	0.04	-	-	-	-	-	-	-					Outlet	45
SLC500-1EC	10	1790	**m³/s**	**2.263**	**2.186**	**2.110**	**2.033**	**1.953**	**1.776**	**1.545**	-	67.5	75	0.591	4.63	Inlet	59
			W/(L/s)	0.16	0.20	0.22	0.25	0.27	0.33	0.40	-					Outlet	59
	8	1410	**m³/s**	**1.771**	**1.677**	**1.578**	**1.471**	**1.350**	-	-	-	64.4		0.304	2.58	Inlet	58
			W/(L/s)	0.11	0.14	0.17	0.19	0.22	-	-	-					Outlet	58
	5	805	**m³/s**	**0.949**	**0.844**	**0.570**	-	-	-	-	-	56.0		0.074	0.75	Inlet	43
			W/(L/s)	0.06	0.08	0.13	-	-	-	-	-					Outlet	44
	2	240	**m³/s**	**0.269**	-	-	-	-	-	-	-	8.4		0.009	0.14	Inlet	38
			W/(L/s)	0.08	-	-	-	-	-	-	-					Outlet	38

Data provided is at standard air density of 1.2 kg/m³.
ErP data in accordance with Regulation (EU) 327/2011. Measurement category used to determine energy efficiency: D.
A variable speed drive is integrated within the fan.
Peak Amps @ 230V / 1PH / 50Hz.
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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EC

Performance, SFP & Electrical Data

Single Phase 220V to 277V / 50Hz or 60Hz

Product Code	Control Voltage V	Speed r/min	Airflow SFP	Airflow m³/s @ Static Pressure Pa											At Best Efficiency Point			Electrical Data	dBA @ 3m	
				0	25	50	75	100	150	200	250	300	350	400	Overall Eff %	FMEG N	Input kW	Peak Amps		
SLC560-1EC	10	1790	**m³/s**	**3.001**	**2.935**	**2.859**	**2.771**	**2.671**	**2.434**	**2.145**	**1.750**	**1.187**	**0.750**	-	68.3	75	0.819	6.45	Inlet	63
			W/(L/s)	0.23	0.23	0.25	0.26	0.28	0.33	0.40	0.49	0.69	1.07	-					Outlet	63
	8	1410	**m³/s**	**2.331**	**2.240**	**2.137**	**2.016**	**1.870**	**1.434**	**0.742**	-	-	-	-	67.7		0.416	3.50	Inlet	58
			W/(L/s)	0.14	0.16	0.17	0.20	0.22	0.30	0.55	-	-	-	-					Outlet	57
	5	805	**m³/s**	**1.300**	**1.145**	**0.827**	-	-	-	-	-	-	-	-	58.5		0.097	0.99	Inlet	47
			W/(L/s)	0.06	0.08	0.12	-	-	-	-	-	-	-	-					Outlet	47
	2	230	**m³/s**	**0.331**	-	-	-	-	-	-	-	-	-	-	11.1		0.011	0.14	Inlet	39
			W/(L/s)	0.03	-	-	-	-	-	-	-	-	-	-					Outlet	41
SLC630-1EC	10	1800	**m³/s**	**4.159**	**4.083**	**4.001**	**3.913**	**3.819**	**3.605**	**3.344**	**3.018**	**2.598**	**2.046**	**1.246**	78.3	84	1.236	9.49	Inlet	66
			W/(L/s)	0.24	0.25	0.26	0.27	0.29	0.32	0.37	0.43	0.50	0.61	0.95					Outlet	67
	8	1415	**m³/s**	**3.313**	**3.194**	**3.066**	**2.927**	**2.774**	**2.407**	**1.877**	-	-	-	-	78.3		0.619	4.86	Inlet	63
			W/(L/s)	0.14	0.16	0.17	0.19	0.21	0.26	0.34	-	-	-	-					Outlet	63
	5	810	**m³/s**	**1.819**	**1.646**	**1.364**	**0.709**	**-**	-	-	-	-	-	-	72.3		0.132	1.17	Inlet	49
			W/(L/s)	0.05	0.07	0.10	0.17	-	-	-	-	-	-	-					Outlet	50
	2	250	**m³/s**	**0.540**	-	-	-	-	-	-	-	-	-	-	24.9		0.011	0.14	Inlet	39
			W/(L/s)	0.01	-	-	-	-	-	-	-	-	-	-					Outlet	42

Data provided is at standard air density of 1.2 kg/m³.
ErP data in accordance with Regulation (EU) 327/2011. Measurement category used to determine energy efficiency: D.
A variable speed drive is integrated within the fan.
Peak Amps @ 230V / 1PH / 50Hz.
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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Sound Data

Single Phase 220V to 277V / 50Hz or 60Hz

Product Code	Control Voltage V		Sound Power Level dBW @ Octave Band Hz								Total dB
			63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
SLC315-1EC	10	Inlet	65	68	71	60	60	58	56	56	74
		Outlet	68	69	73	60	59	59	56	58	76
	8	Inlet	61	69	56	53	55	54	50	53	70
		Outlet	64	69	58	55	54	54	50	57	71
	5	Inlet	58	49	43	40	42	45	35	39	59
		Outlet	59	50	45	41	42	45	35	45	60
	2	Inlet	36	28	21	25	31	51	32	29	51
		Outlet	37	28	22	25	32	50	35	30	50
SLC355-1EC	10	Inlet	65	69	68	70	69	66	60	56	76
		Outlet	68	68	70	70	70	66	60	56	77
	8	Inlet	59	64	63	62	61	58	52	53	70
		Outlet	62	63	64	63	62	59	52	53	70
	5	Inlet	60	64	57	50	47	48	35	38	66
		Outlet	62	62	59	51	47	51	35	38	66
	2	Inlet	39	31	22	25	31	55	34	30	55
		Outlet	40	30	24	25	32	59	34	31	59
SLC400-1EC	10	Inlet	76	74	75	73	70	69	64	63	81
		Outlet	79	76	79	73	71	70	65	64	84
	8	Inlet	71	73	67	66	64	63	58	57	77
		Outlet	73	76	68	66	65	64	58	62	79
	5	Inlet	65	66	60	55	53	59	45	48	70
		Outlet	66	66	61	55	53	61	46	46	70
	2	Inlet	42	34	27	50	52	64	44	37	65
		Outlet	43	35	28	50	54	66	45	39	66
SLC450-1EC	10	Inlet	83	79	80	77	73	72	68	68	87
		Outlet	85	79	79	76	73	73	69	69	88
	8	Inlet	77	77	69	70	67	67	63	63	81
		Outlet	78	77	70	69	67	68	63	63	82
	5	Inlet	66	65	62	65	58	61	49	49	71
		Outlet	67	65	63	63	58	63	49	50	72
	2	Inlet	46	39	43	51	54	61	38	37	62
		Outlet	47	40	43	51	57	64	40	38	65
SLC500-1EC	10	Inlet	70	72	77	75	73	73	71	68	82
		Outlet	72	74	79	75	73	73	71	69	83
	8	Inlet	69	74	80	76	73	70	65	66	83
		Outlet	70	75	80	76	73	71	66	67	83
	5	Inlet	64	61	59	59	59	58	51	54	69
		Outlet	64	62	61	58	59	58	51	56	69
	2	Inlet	43	36	45	40	55	54	39	40	58
		Outlet	44	36	48	42	56	54	41	39	59

Data provided at standard air density of 1.2 kg/m³.
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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Sound Data

Single Phase 220V to 277V / 50Hz or 60Hz

Product Code	Control Voltage V		Sound Power Level dBW @ Octave Band Hz								Total dB
			63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
SLC560-1EC	10	Inlet	73	74	78	79	78	77	75	73	85
		Outlet	77	74	77	79	78	78	75	74	86
	8	Inlet	68	73	69	74	72	72	69	67	80
		Outlet	72	74	69	72	72	72	69	69	81
	5	Inlet	63	61	63	63	62	61	56	54	70
		Outlet	64	62	64	62	62	61	56	56	71
	2	Inlet	47	39	45	47	55	56	40	39	59
		Outlet	48	39	42	45	57	58	43	40	61
SLC630-1EC	10	Inlet	79	78	82	82	81	81	78	76	89
		Outlet	83	79	84	80	81	81	79	77	90
	8	Inlet	73	75	75	79	78	77	74	69	85
		Outlet	77	77	75	79	79	78	74	72	86
	5	Inlet	67	65	63	63	65	65	60	55	73
		Outlet	68	65	63	64	65	65	60	57	73
	2	Inlet	49	43	41	44	57	55	40	40	60
		Outlet	49	42	44	45	55	60	44	42	62

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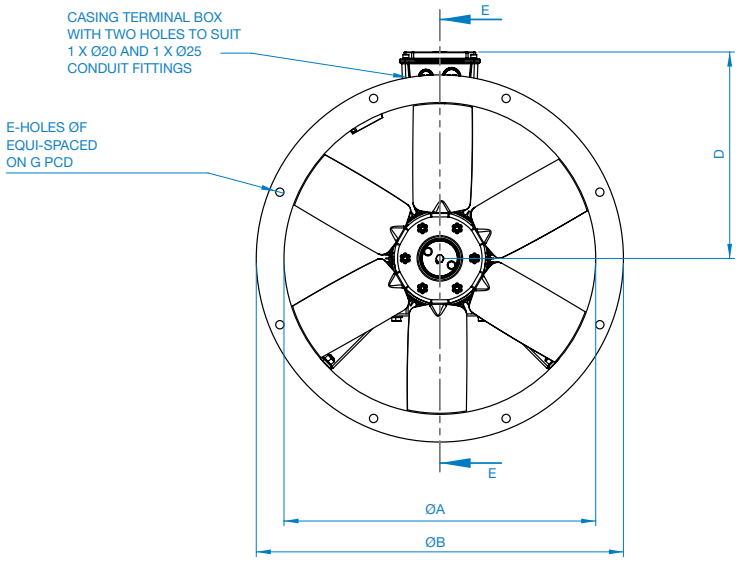
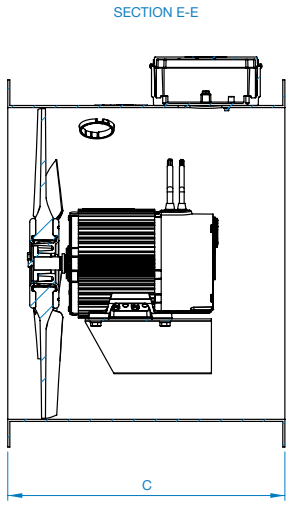
Dimensional Data

Single Phase

Product Code	Fan Dia. A	B	C	D	E	F	G	K	Weight kg
SLC315-1EC	315	375	400	229	8	10	355	20	15
SLC355-1EC	355	425	400	250	8	10	395	20	19
SLC400-1EC	400	475	400	272	8	12	450	20	25
SLC450-1EC	450	530	400	298	8	12	500	20	30
SLC500-1EC	500	585	400	323	12	12	560	20	35
SLC560-1EC	560	645	400	353	12	12	620	20	37
SLC630-1EC	630	715	400	388	12	12	690	20	37





Dimensions are in mm.

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