



Skyflow Viper SSC

Product Brochure

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Skyflow Viper SSC

Roof Mounted Vertical Extract Fan

roof



UK Patent Application Number 1211017.7

OVERVIEW

The Skyflow SSC is a lightweight range of horizontal discharge roof extract units which balance the need to satisfy architects' modern day building needs against a low silhouette design. Incorporating the BAT (Best Available Technology) Vpro backward curved impeller, with three dimensional profiled blades powered by a Ziehl-Abegg EC external rotor motor, which delivers exceptional performance and noise characteristics.

UK PATENT
App. No. 1211017.7

MORE INFORMATION

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QUICK FACTS

- ✓ 8 standard sizes from 250mm to 630mm.
- ✓ Air volume flow rates up to 1.126 m³/s (AC) and 1.625 m³/s (EC).
- ✓ Static pressures up to 648 Pa (AC) and 1036 Pa (EC).
- ✓ Suitable for operating temperatures up to +60°C.
- ✓ UV stabilised GRP cowl finished in goose wing grey.

CASING

The top cowl and fan support housing shall be manufactured from UV stabilised GRP finished in goose wing grey (BS 00-A-05). The all metal fan casing and guard provides 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 polyester epoxy paint finish in black (RAL 9005). Fan casings are powder coated polyester epoxy paint finish in pastel beige (RAL 7032).

IMPELLER

High efficiency low tonal noise backward curved centrifugal impeller, dynamically balanced to ISO 14694 Grade G6.3 and directly driven by the motor to provide a smooth airflow through the unit.

MOTORS

The units may have either an EC or AC external rotor motor fitted as standard. The motor contains sealed for life bearings. Thermal Class of motors to THCL 130 or 155 dependent on size.

Manufactured by Ziehl-Abegg providing increased reliability. All motors are suitable for use in ambient air conditions up to +60°C.

QUALITY MANAGEMENT

Units are to be designed and manufactured with procedures as defined in BS EN ISO 9001:2008. They are also tested in accordance with BS 848 Part 2:1985 (sound performance) and ISO 5801:2007 (airside performance).

TYPICAL APPLICATIONS

- Libraries
- Hospitals
- Offices
- Banks
- Small Industrial Units
- Retail Parks



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Skyflow Viper SSC



Performance, SFP & Electrical Data

SINGLE Phase - 220V to 240V / 50Hz

Product Code	Speed r/min	Airflow	Airflow m³/s @ Static Pressure Pa.												Overall Efficiency %	FMEG	Motor Electrical Data			dBA @ 3m	
			0	25	50	75	100	150	200	250	300	350	400	500			FLC Amps	SC Amps	Input kW		
SSC250-1AC	2559	m³ / s	0.134	0.126	0.118	0.110	0.102	0.085	0.066	0.042	0.018				22.5	-	0.26	-	0.061	Inlet	40
		W / (L/s)	0.43	0.46	0.50	0.55	0.59	0.71	0.89	1.31	2.67									Outlet	-
SSC315-1AC	2562	m³ / s	0.223	0.216	0.208	0.200	0.192	0.174	0.154	0.132	0.109	0.086	0.062	0.018	25.8	N45	0.57	-	0.131	Inlet	49
		W / (L/s)	0.54	0.56	0.59	0.62	0.66	0.74	0.84	0.98	1.17	1.44	1.88	5.22						Outlet	-
SSC350-1AC	2518	m³ / s	0.348	0.338	0.328	0.318	0.308	0.286	0.263	0.239	0.212	0.182	0.149	0.083	31.2	N48	0.93	-	0.213	Inlet	52
		W / (L/s)	0.51	0.54	0.57	0.60	0.63	0.70	0.78	0.87	0.98	1.12	1.31	2.01						Outlet	-
SSC400-1AC	2526	m³ / s	0.377	0.369	0.359	0.349	0.337	0.313	0.286	0.258	0.229	0.199	0.167	0.100	33.9	N51	0.91	-	0.210	Inlet	48
		W / (L/s)	0.46	0.48	0.50	0.53	0.56	0.62	0.70	0.80	0.90	1.03	1.20	1.77						Outlet	-
SSC450-1AC	1294	m³ / s	0.430	0.403	0.374	0.343	0.307	0.222	0.122	0.044					24.5	N44	0.66	-	0.142	Inlet	44
		W / (L/s)	0.30	0.33	0.37	0.41	0.46	0.61	0.99	2.41										Outlet	-
SSC500-1AC	1405	m³ / s	0.635	0.614	0.590	0.566	0.539	0.477	0.401	0.307	0.200	0.100			33.3	N50	1.23	-	0.249	Inlet	43
		W / (L/s)	0.35	0.37	0.40	0.42	0.45	0.52	0.61	0.76	1.05	1.78								Outlet	-
SSC560-1AC	1370	m³ / s	0.910	0.888	0.864	0.840	0.814	0.756	0.690	0.609	0.504	0.362	0.202		31.5	N45	2.82	-	0.519	Inlet	47
		W / (L/s)	0.50	0.53	0.55	0.57	0.60	0.66	0.73	0.82	0.96	1.22	1.90							Outlet	-
SSC630-1AC	1283	m³ / s	1.126	1.099	1.069	1.036	1.000	0.921	0.831	0.734	0.630	0.518	0.397	0.171	33.9	N47	2.63	-	0.572	Inlet	52
		W / (L/s)	0.45	0.47	0.49	0.52	0.55	0.61	0.69	0.78	0.89	1.04	1.26	2.28						Outlet	-

Overall static efficiency, r/min and FMEG values are per ISO 12759 installation category C. FLC Amps @ 230V / 1Ph / 50Hz.

Tabulated data and performance curves include shutter.

The overall A-scale sound pressure level is at a distance of 3m with spherical propagation. It is expressed in dB re 20µPa and is presented for comparative purposes only.

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

Sound Data

SINGLE Phase - 220V to 240V / 50Hz

Product Code	Speed r/min		Sound Power Level dBW @ Octave Band Hz								Total dB	Silencer dBA Attenuation	
			63Hz	125Hz	250Hz	500Hz	1 kHz	2 kHz	4 kHz	8 kHz		1DENP	2DENP
SSC250-1AC	2559	Inlet	64	63	61	57	54	50	54	47	68	-8	-13
		Outlet	-	-	-	-	-	-	-	-	-	-	-
SSC315-1AC	2562	Inlet	71	79	71	65	61	60	61	56	80	-7	-11
		Outlet	-	-	-	-	-	-	-	-	-	-	-
SSC350-1AC	2518	Inlet	73	78	71	67	65	62	66	66	81	-7	-12
		Outlet	-	-	-	-	-	-	-	-	-	-	-
SSC400-1AC	2526	Inlet	72	73	69	65	61	59	57	63	77	-8	-12
		Outlet	-	-	-	-	-	-	-	-	-	-	-
SSC450-1AC	1294	Inlet	75	71	65	61	57	60	48	43	77	-8	-12
		Outlet	-	-	-	-	-	-	-	-	-	-	-
SSC500-1AC	1405	Inlet	73	72	64	61	52	56	53	44	76	-8	-11
		Outlet	-	-	-	-	-	-	-	-	-	-	-
SSC560-1AC	1370	Inlet	73	74	68	64	57	59	62	59	78	-7	-11
		Outlet	-	-	-	-	-	-	-	-	-	-	-
SSC630-1AC	1283	Inlet	83	79	73	71	64	62	67	55	85	-8	-12
		Outlet	-	-	-	-	-	-	-	-	-	-	-

The Sound Power Level Spectra are in dB re-1pW.

Tests and preparation of the sound data have been carried out in accordance with BS 848 Part 2:1985 at 50% peak pressure.

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Accessories & Wiring Data



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

SINGLE Phase - 220V to 240V / 50Hz

Product Code	Electronic Controller	Transformer Controller	Backdraft Shutter	Purlin Box	Soaker Sheet	Matching Flanges (each)	Flexible Connections (each)	Silencer 1D Unpodded	Silencer 2D Unpodded	Wiring Diagram No.
SSC250-1AC	149-EL31	149-TC12	039-SFSV-25	039B-PB25	039-SP25	061A-0250-C	063-0250-MAN150	068-0250-1DENP	068-0250-2DENP	152-177
SSC315-1AC	149-EL31	149-TC12	039-SFSV-31/35	039B-PB31/35	039-SP31/35	061A-0315-C	063-0315-MAN150	068-0315-1DENP	068-0315-2DENP	152-177
SSC350-1AC	149-EL31	149-TC12	039-SFSV-31/35	039B-PB31/35	039-SP31/35	061A-0350-C	063-0350-MAN150	068-0350-1DENP	068-0350-2DENP	152-177
SSC400-1AC	149-EL31	149-TC12	039-SFSV-40/45	039B-PB40/45	039-SP40/45	061A-0400-C	063-0400-MAN150	068-0400-1DENPC	068-0400-2DENPC	152-177
SSC450-1AC	149-EL31	149-TC12	039-SFSV-40/45	039B-PB40/45	039-SP40/45	061A-0450-C	063-0450-MAN150	068-0450-1DENPC	068-0450-2DENPC	152-177
SSC500-1AC	149-EL31TK	149-TC12	039-SFSV-50/56	039B-PB50/56	039-SP50/56	061A-0500-C	063-0500-MAN150	068-0500-1DENPC	068-0500-2DENPC	152-104A
SSC560-1AC	149-EL31TK	149-TC14	039-SFSV-50/56	039B-PB50/56	039-SP50/56	061A-0560-C	063-0560-MAN150	068-0560-1DENPC	068-0560-2DENPC	152-104A
SSC630-1AC	149-EL31TK	149-TC14	039-SFSV-63/71	039B-PB63/71	039-SP63/71	061A-0630-C	063-0630-MAN200	068-0630-1DENPC	068-0630-2DENPC	152-104A

Optimum Energy Efficiency Point

SINGLE Phase - 200V to 240V / 50Hz

Product Code	Volume m ³ /s	Pressure Pa	Input kW	Speed r/min	Efficiency %	FMEG
SSC250-1AC	0.070	192	0.060	2559	22.5	-
SSC315-1AC	0.120	279	0.129	2562	25.8	N45
SSC350-1AC	0.184	348	0.205	2508	31.2	N48
SSC400-1AC	0.195	357	0.205	2526	33.9	N51
SSC450-1AC	0.231	146	0.138	1294	24.5	N44
SSC500-1AC	0.354	226	0.241	1405	33.3	N50
SSC560-1AC	0.527	290	0.487	1370	31.5	N45
SSC630-1AC	0.573	326	0.551	1283	33.9	N47

Overall static efficiency, r/min and FMEG values are per ISO 12759 installation category C. Data provided at standard air density of 1.2 kg/m³.

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Performance, SFP & Electrical Data

SINGLE Phase - 200V to 277V / 50Hz or 60Hz

Product Code	Control Voltage	Airflow	Airflow m³/s @ Static Pressure Pa.											Overall Efficiency %	FMEG	Motor Electrical Data		dBA @ 3m		
			0	25	50	75	100	150	200	250	300	350	400			500	FLC Amps			Input kW
SSC250-1EC	10V	m³ / s	0.168	0.162	0.157	0.152	0.147	0.136	0.125	0.113	0.101	0.087	0.071	0.030	27.6	N47	1.123	0.130	Inlet	52
		W / (L/s)	0.65	0.69	0.73	0.77	0.82	0.91	1.01	1.12	1.27	1.46	1.77	4.01					Outlet	-
	8V	m³ / s	0.163	0.157	0.150	0.144	0.137	0.125	0.113	0.100	0.087	0.074	0.059	0.024	31.5		0.889	0.098	Inlet	51
		W / (L/s)	0.61	0.63	0.65	0.67	0.69	0.76	0.85	0.96	1.11	1.31	1.63	3.66					Outlet	-
	5V	m³ / s	0.096	0.085	0.075	0.065	0.056	0.041	0.029	0.021	0.013	0.008			25.5		0.326	0.038	Inlet	40
		W / (L/s)	0.29	0.32	0.37	0.42	0.49	0.71	1.04	1.58	2.53	4.64							Outlet	-
	2V	m³ / s	0.019	0.008											7.1		0.074	0.004	Inlet	*20
		W / (L/s)	0.21	0.45															Outlet	-
SSC315-1EC	10V	m³ / s	0.289	0.284	0.278	0.273	0.267	0.255	0.242	0.229	0.214	0.198	0.181	0.145	36.8	N54	1.827	0.227	Inlet	52
		W / (L/s)	0.67	0.69	0.72	0.74	0.76	0.82	0.88	0.95	1.04	1.14	1.25	1.55					Outlet	-
	8V	m³ / s	0.274	0.264	0.254	0.244	0.235	0.216	0.197	0.178	0.160	0.142	0.124	0.089	37.6		1.394	0.169	Inlet	48
		W / (L/s)	0.61	0.62	0.62	0.63	0.65	0.69	0.75	0.83	0.93	1.07	1.24	1.74					Outlet	-
	5V	m³ / s	0.166	0.154	0.138	0.119	0.102	0.077	0.058	0.040					32.7		0.416	0.048	Inlet	36
		W / (L/s)	0.27	0.29	0.31	0.35	0.41	0.54	0.76	1.16									Outlet	-
	2V	m³ / s	0.037	0.022											11.9		0.855	0.006	Inlet	20
		W / (L/s)	0.15	0.27															Outlet	-
SSC350-1EC	10V	m³ / s	0.379	0.366	0.352	0.338	0.323	0.293	0.263	0.234	0.208	0.184	0.163	0.128	38.6	N56	1.741	0.213	Inlet	51
		W / (L/s)	0.56	0.56	0.57	0.58	0.60	0.64	0.70	0.79	0.90	1.03	1.18	1.55					Outlet	-
	8V	m³ / s	0.312	0.299	0.285	0.271	0.256	0.223	0.188	0.156	0.130	0.110	0.095	0.071	39.8		1.356	0.163	Inlet	48
		W / (L/s)	0.38	0.40	0.41	0.43	0.45	0.50	0.59	0.73	0.89	1.08	1.30	1.85					Outlet	-
	5V	m³ / s	0.196	0.170	0.144	0.115	0.091	0.061	0.044	0.031	0.021	0.013			32.8		0.364	0.044	Inlet	39
		W / (L/s)	0.18	0.20	0.22	0.28	0.36	0.58	0.86	1.26	1.90	3.13							Outlet	-
	2V	m³ / s	0.042	0.025											13.0		0.086	0.006	Inlet	25
		W / (L/s)	0.14	0.24															Outlet	-
SSC400-1EC	10V	m³ / s	0.415	0.399	0.383	0.367	0.351	0.320	0.287	0.253	0.220	0.191	0.165	0.125	38.8	N56	1.848	0.222	Inlet	53
		W / (L/s)	0.54	0.55	0.56	0.57	0.59	0.63	0.69	0.77	0.88	1.03	1.20	1.63					Outlet	-
	8V	m³ / s	0.332	0.319	0.305	0.289	0.271	0.229	0.190	0.159	0.134	0.114	0.098	0.070	39.7		1.346	0.156	Inlet	50
		W / (L/s)	0.37	0.38	0.39	0.41	0.44	0.51	0.60	0.73	0.88	1.05	1.27	1.87					Outlet	-
	5V	m³ / s	0.198	0.173	0.141	0.110	0.087	0.059	0.041	0.027	0.016				31.4		0.379	0.042	Inlet	41
		W / (L/s)	0.17	0.19	0.23	0.29	0.38	0.60	0.92	1.45	2.58								Outlet	-
	2V	m³ / s	0.030	0.020											12.2		0.088	0.006	Inlet	23
		W / (L/s)	0.20	0.29															Outlet	-
SSC450-1EC	10V	m³ / s	0.674	0.663	0.652	0.640	0.628	0.602	0.573	0.539	0.498	0.444	0.366	0.128	45.7	N60	1.845	0.402	Inlet	52
		W / (L/s)	0.48	0.50	0.53	0.55	0.57	0.62	0.67	0.72	0.79	0.87	0.98	1.66					Outlet	-
	8V	m³ / s	0.528	0.516	0.502	0.487	0.471	0.432	0.377	0.282	0.118				44.1		0.972	0.201	Inlet	46
		W / (L/s)	0.31	0.33	0.35	0.37	0.40	0.45	0.53	0.65	1.00								Outlet	-
	5V	m³ / s	0.311	0.278	0.237	0.172	0.066								31.1		0.294	0.052	Inlet	35
		W / (L/s)	0.15	0.18	0.22	0.29	0.52												Outlet	-
	2V	m³ / s	0.038												3.8		0.103	0.009	Inlet	25
		W / (L/s)	0.23																Outlet	-

Overall static efficiency, r/min and FMEG values are per ISO 12759 installation category C. FLC 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.

*At 2V the average spherical free-field sound pressure levels cannot be accurately measured above the background level in our conventional laboratory facilities.

A variable speed drive is integrated within the fan.

Tabulated data and performance curves include shutter

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Performance, SFP & Electrical Data



SINGLE Phase - 200V to 277V / 50Hz or 60Hz

Product Code	Control Voltage	Airflow	Airflow m³/s @ Static Pressure Pa.												Overall Efficiency %	FMEG	Motor Electrical Data		dBA @ 3m	
			0	25	50	75	100	150	200	250	300	350	400	500			FLC Amps	Input kW		
			m³ / s	W / (L/s)	m³ / s	W / (L/s)	m³ / s	W / (L/s)	m³ / s	W / (L/s)	m³ / s	W / (L/s)	m³ / s	W / (L/s)			m³ / s	W / (L/s)	m³ / s	W / (L/s)
SSC500-1EC	10V	m³ / s	1.003	0.990	0.977	0.964	0.951	0.923	0.894	0.864	0.832	0.799	0.763	0.682	48.5	N60	3.523	0.804	Inlet	55
		W / (L/s)	0.65	0.67	0.69	0.71	0.74	0.78	0.83	0.88	0.93	0.98	1.04	1.18					Outlet	-
	8V	m³ / s	0.780	0.768	0.755	0.741	0.726	0.693	0.655	0.611	0.559	0.499	0.427	0.141	47.0		1.925	0.428	Inlet	50
		W / (L/s)	0.46	0.48	0.50	0.52	0.54	0.58	0.63	0.69	0.76	0.84	0.95	1.85					Outlet	-
	5V	m³ / s	0.468	0.438	0.406	0.370	0.328	0.191	0.025						35.8		0.551	0.115	Inlet	38
		W / (L/s)	0.21	0.24	0.27	0.31	0.35	0.52	2.51										Outlet	-
	2V	m³ / s	0.100												3.9		0.226	0.030	Inlet	*20
		W / (L/s)	0.20																Outlet	-
SSC560-1EC	10V	m³ / s	1.153	1.135	1.117	1.099	1.080	1.040	0.999	0.953	0.904	0.847	0.780	0.581	50.1	N62	3.296	0.723	Inlet	51
		W / (L/s)	0.52	0.54	0.56	0.58	0.61	0.65	0.69	0.74	0.79	0.84	0.91	1.11					Outlet	-
	8V	m³ / s	0.889	0.873	0.856	0.837	0.818	0.773	0.716	0.636	0.500	0.311	0.119		48.0		1.816	0.387	Inlet	46
		W / (L/s)	0.38	0.39	0.41	0.43	0.44	0.48	0.53	0.60	0.71	0.91	1.61						Outlet	-
	5V	m³ / s	0.534	0.495	0.446	0.379	0.280								36.0		0.486	0.098	Inlet	36
		W / (L/s)	0.16	0.19	0.22	0.26	0.32												Outlet	-
	2V	m³ / s	0.133												5.3		0.318	0.030	Inlet	21
		W / (L/s)	0.20																Outlet	-
SSC630-1EC	10V	m³ / s	1.339	1.316	1.293	1.268	1.241	1.184	1.119	1.047	0.965	0.872	0.763	0.424	51.1	N63	3.076	0.685	Inlet	51
		W / (L/s)	0.44	0.46	0.47	0.49	0.51	0.55	0.59	0.65	0.71	0.78	0.86	1.23					Outlet	-
	8V	m³ / s	1.072	1.043	1.012	0.978	0.941	0.857	0.754	0.618	0.423				49.0		1.699	0.368	Inlet	45
		W / (L/s)	0.28	0.30	0.32	0.34	0.37	0.42	0.48	0.57	0.72								Outlet	-
	5V	m³ / s	0.624	0.564	0.490	0.386	0.213								37.3		0.487	0.098	Inlet	32
		W / (L/s)	0.13	0.16	0.19	0.24	0.35												Outlet	-
	2V	m³ / s	0.054												1.1		0.249	0.030	Inlet	*20
		W / (L/s)	0.56																Outlet	-

Overall static efficiency, r/min and FMEG values are per ISO 12759 installation category C. FLC 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.

*At 2V the average spherical free-field sound pressure levels cannot be accurately measured above the background level in our conventional laboratory facilities.

A variable speed drive is integrated within the fan.

Tabulated data and performance curves include shutter.

Skyflow Viper SSC

Sound Data



SINGLE Phase - 200V to 277V / 50Hz or 60Hz

Product Code	Control Voltage		Sound Power Level dBW @ Octave Band Hz								Total dB	Silencer dBA Attenuation	
			63Hz	125Hz	250Hz	500Hz	1 kHz	2 kHz	4 kHz	8 kHz		1DENP	2DENP
SSC250-1EC	10V	Inlet	71	74	77	70	64	62	62	61	80	-7	-12
		Outlet	-	-	-	-	-	-	-	-	-	-	-
	8V	Inlet	70	73	76	69	63	61	61	60	79	-8	-12
		Outlet	-	-	-	-	-	-	-	-	-	-	-
	5V	Inlet	61	68	63	55	50	52	53	38	70	-8	-12
		Outlet	-	-	-	-	-	-	-	-	-	-	-
	2V*	Inlet	-	-	-	-	-	-	-	-	-	-	-
		Outlet	-	-	-	-	-	-	-	-	-	-	-
SSC315-1EC	10V	Inlet	74	77	76	69	64	62	60	60	81	-8	-12
		Outlet	-	-	-	-	-	-	-	-	-	-	-
	8V	Inlet	71	74	73	64	60	58	57	58	78	-8	-12
		Outlet	-	-	-	-	-	-	-	-	-	-	-
	5V	Inlet	62	64	58	52	48	47	49	44	67	-7	-11
		Outlet	-	-	-	-	-	-	-	-	-	-	-
	2V	Inlet	50	44	36	33	32	33	34	32	51	-8	-12
		Outlet	-	-	-	-	-	-	-	-	-	-	-
SSC350-1EC	10V	Inlet	72	77	72	66	63	61	63	65	80	-7	-11
		Outlet	-	-	-	-	-	-	-	-	-	-	-
	8V	Inlet	69	74	68	62	59	58	62	60	77	-8	-12
		Outlet	-	-	-	-	-	-	-	-	-	-	-
	5V	Inlet	63	66	58	51	48	53	53	44	69	-8	-12
		Outlet	-	-	-	-	-	-	-	-	-	-	-
	2V	Inlet	61	54	43	38	35	34	37	38	62	-7	-10
		Outlet	-	-	-	-	-	-	-	-	-	-	-
SSC400-1EC	10V	Inlet	74	77	74	68	65	63	64	69	81	-7	-11
		Outlet	-	-	-	-	-	-	-	-	-	-	-
	8V	Inlet	73	74	70	64	61	60	63	64	78	-8	-12
		Outlet	-	-	-	-	-	-	-	-	-	-	-
	5V	Inlet	65	64	57	54	51	56	55	41	69	-9	-14
		Outlet	-	-	-	-	-	-	-	-	-	-	-
	2V	Inlet	52	43	35	34	34	37	39	35	53	-8	-12
		Outlet	-	-	-	-	-	-	-	-	-	-	-
SSC450-1EC	10V	Inlet	77	75	75	70	63	65	60	58	81	-8	-12
		Outlet	-	-	-	-	-	-	-	-	-	-	-
	8V	Inlet	74	73	68	64	57	58	56	51	77	-8	-12
		Outlet	-	-	-	-	-	-	-	-	-	-	-
	5V	Inlet	66	64	59	50	45	49	39	37	69	-8	-11
		Outlet	-	-	-	-	-	-	-	-	-	-	-
	2V	Inlet	51	38	35	33	34	39	42	38	52	-7	-12
		Outlet	-	-	-	-	-	-	-	-	-	-	-
SSC500-1EC	10V	Inlet	83	81	77	74	65	65	67	63	86	-7	-11
		Outlet	-	-	-	-	-	-	-	-	-	-	-
	8V	Inlet	79	76	71	67	59	62	62	55	81	-8	-12
		Outlet	-	-	-	-	-	-	-	-	-	-	-
	5V	Inlet	69	65	58	54	50	53	40	37	71	-9	-13
		Outlet	-	-	-	-	-	-	-	-	-	-	-
	2V*	Inlet	-	-	-	-	-	-	-	-	-	-	-
		Outlet	-	-	-	-	-	-	-	-	-	-	-

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.

*At 2V the average spherical free-field sound pressure levels cannot be accurately measured above the background level in our conventional laboratory facilities.

Eita 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.

Skyflow Viper SSC

Sound Data



SINGLE Phase - 200V to 277V / 50Hz or 60Hz

Product Code	Control Voltage		Sound Power Level dBW @ Octave Band Hz								Total dB	Silencer dBA Attenuation	
			63Hz	125Hz	250Hz	500Hz	1 kHz	2 kHz	4 kHz	8 kHz		1DENP	2DENP
SSC560-1EC	10V	Inlet	78	77	72	69	63	64	60	64	82	-7	-11
		Outlet	-	-	-	-	-	-	-	-	-	-	-
	8V	Inlet	75	73	67	63	55	56	58	59	78	-7	-11
		Outlet	-	-	-	-	-	-	-	-	-	-	-
	5V	Inlet	66	61	54	49	44	52	49	36	68	-8	-13
		Outlet	-	-	-	-	-	-	-	-	-	-	-
	2V	Inlet	56	39	44	33	28	32	31	36	56	-7	-11
		Outlet	-	-	-	-	-	-	-	-	-	-	-
SSC630-1EC	10V	Inlet	80	77	72	69	63	61	62	62	83	-8	-12
		Outlet	-	-	-	-	-	-	-	-	-	-	-
	8V	Inlet	74	72	66	62	56	54	59	48	77	-9	-12
		Outlet	-	-	-	-	-	-	-	-	-	-	-
	5V	Inlet	65	61	53	48	45	47	35	36	67	-8	-12
		Outlet	-	-	-	-	-	-	-	-	-	-	-
	2V*	Inlet	-	-	-	-	-	-	-	-	-	-	-
		Outlet	-	-	-	-	-	-	-	-	-	-	-

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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Skyflow Viper SSC



Performance, SFP & Electrical Data

THREE Phase - 380V to 480V / 50Hz or 60Hz

Product Code	Control Voltage	Speed r/min	Airflow	Airflow m ³ /s @ Static Pressure Pa.											Overall Efficiency %	FMEG	Motor Electrical Data		dBA @ 3m		
				0	25	50	75	100	150	200	250	300	350	400			500	FLC Amps			Input kW
SSC630-3EC	10V	1805	m ³ / s	1.625	1.607	1.589	1.570	1.551	1.512	1.471	1.427	1.382	1.333	1.281	1.165	52.8	N62	2.08	1.324	Inlet	57
			W / (L/s)	0.69	0.71	0.73	0.75	0.77	0.80	0.84	0.88	0.93	0.97	1.02	1.13					Outlet	-
	8V	1451	m ³ / s	1.319	1.295	1.271	1.246	1.220	1.165	1.106	1.041	0.970	0.890	0.798	0.546	53.5		1.19	0.686	Inlet	50
			W / (L/s)	0.44	0.46	0.48	0.50	0.52	0.56	0.60	0.65	0.70	0.76	0.84	1.07					Outlet	-
	5V	872	m ³ / s	0.806	0.752	0.698	0.644	0.585	0.437	0.137						47.9		0.44	0.165	Inlet	38
			W / (L/s)	0.18	0.20	0.23	0.25	0.28	0.36	0.76										Outlet	-
	2V	292	m ³ / s	0.251												0.5		0.17	0.019	Inlet	23
			W / (L/s)	0.07																Outlet	-

Overall static efficiency, r/min and FMEG values are per ISO 12759 installation category C. FLC 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.
 A variable speed drive is integrated within the fan.
 Tabulated data and performance curves include shutter.

Sound Data

THREE Phase - 380V to 480V / 50Hz or 60Hz

Product Code	Control Voltage		Sound Power Level dBW @ Octave Band Hz							Total dB	Silencer dBA Attenuation		
			63Hz	125Hz	250Hz	500Hz	1 kHz	2 kHz	4 kHz		8 kHz	1DENP	2DENP
SSC630-3EC	10V	Inlet	84	82	79	74	70	68	66	64	87	-9	-13
		Outlet	-	-	-	-	-	-	-	-	-	-	-
	8V	Inlet	80	78	72	67	64	62	60	57	83	-8	-12
		Outlet	-	-	-	-	-	-	-	-	-	-	-
	5V	Inlet	70	66	58	54	50	52	46	39	72	-9	-13
		Outlet	-	-	-	-	-	-	-	-	-	-	-
	2V	Inlet	48	38	38	40	36	37	32	37	50	-9	-13
		Outlet	-	-	-	-	-	-	-	-	-	-	-

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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Skyflow Viper SSC



Accessories & Wiring Data

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

SINGLE Phase - 200V to 277V / 50Hz or 60Hz

Product Code	Electronic Controller	Backdraft Shutter	Purlin Box	Soaker Sheet	Matching Flanges (each)	Flexible Connections (each)	Silencer 1D Unpodded	Silencer 2D Unpodded	Wiring Diagram No.
SSC250-1EC	149-POT-10	039-SFSV-25	039B-PB25	039-SP25	061A-0250-C	063-0250-MAN150	068-0250-1DENP	068-0250-2DENP	152-00036
SSC315-1EC	149-POT-10	039-SFSV-31/35	039B-PB31/35	039-SP31/35	061A-0315-C	063-0315-MAN150	068-0315-1DENP	068-0315-2DENP	152-00036
SSC350-1EC	149-POT-10	039-SFSV-31/35	039B-PB31/35	039-SP31/35	061A-0350-C	063-0350-MAN150	068-0350-1DENP	068-0350-2DENP	152-00036
SSC400-1EC	149-POT-10	039-SFSV-40/45	039B-PB40/45	039-SP40/45	061A-0400-C	063-0400-MAN150	068-0400-1DENPC	068-0400-2DENPC	152-00036
SSC450-1EC	149-POT-10	039-SFSV-40/45	039B-PB40/45	039-SP40/45	061A-0450-C	063-0450-MAN150	068-0450-1DENPC	068-0450-2DENPC	152-00044
SSC500-1EC	149-POT-10	039-SFSV-50/56	039B-PB50/56	039-SP50/56	061A-0500-C	063-0500-MAN150	068-0500-1DENPC	068-0500-2DENPC	152-MOEA03K1
SSC560-1EC	149-POT-10	039-SFSV-50/56	039B-PB50/56	039-SP50/56	061A-0560-C	063-0560-MAN150	068-0560-1DENPC	068-0560-2DENPC	152-MOEA03K1
SSC630-1EC	149-POT-10	039-SFSV-63/71	039B-PB63/71	039-SP63/71	061A-0630-C	063-0630-MAN200	068-0630-1DENPC	068-0630-2DENPC	152-MOEA03K1

THREE Phase - 380V to 480V / 50Hz or 60Hz

Product Code	Electronic Controller	Backdraft Shutter	Purlin Box	Soaker Sheet	Matching Flanges (each)	Flexible Connections (each)	Silencer 1D Unpodded	Silencer 2D Unpodded	Wiring Diagram No.
SSC630-3EC	149-POT-10	039-SFSV-63/71	039B-PB63/71	039-SP63/71	061A-0630-C	063-0630-MAN200	068-0630-1DENPC	068-0630-2DENPC	152-MOEA03K3

Optimum Energy Efficiency Point

SINGLE Phase - 200V to 277V / 50Hz or 60Hz

Product Code	Volume m ³ /s	Pressure Pa	Input kW	Speed r/min	Efficiency %	FMEG
SSC250-1EC	0.092	334	0.128	3458	27.6	N47
SSC315-1EC	0.160	462	0.227	3394	36.8	N54
SSC350-1EC	0.178	367	0.192	2527	38.6	N56
SSC400-1EC	0.205	326	0.196	2503	38.8	N56
SSC450-1EC	0.392	386	0.370	2011	45.7	N60
SSC500-1EC	0.568	611	0.784	2218	48.5	N60
SSC560-1EC	0.663	467	0.680	1707	50.1	N62
SSC630-1EC	0.731	413	0.651	1427	51.1	N63

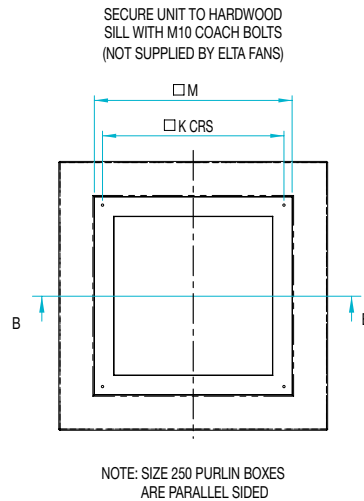
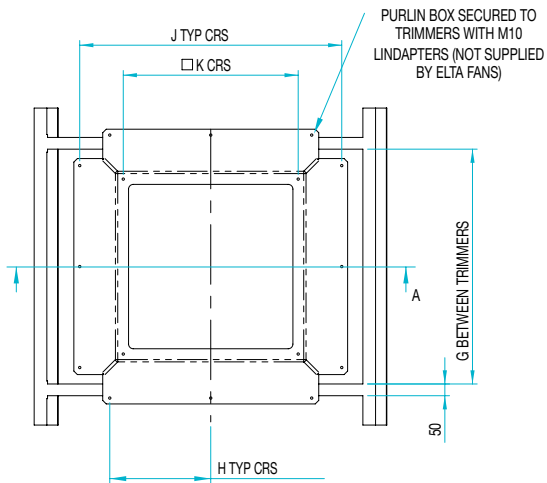
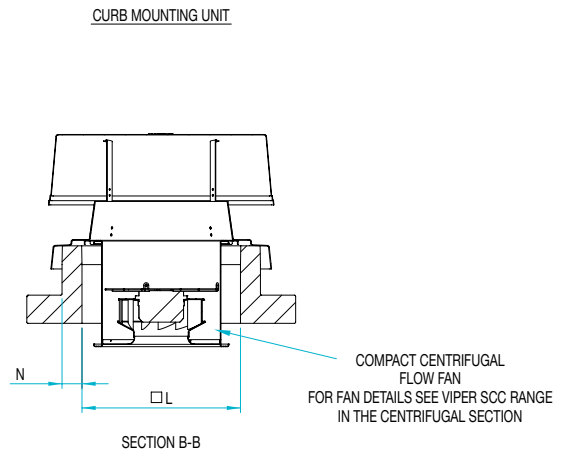
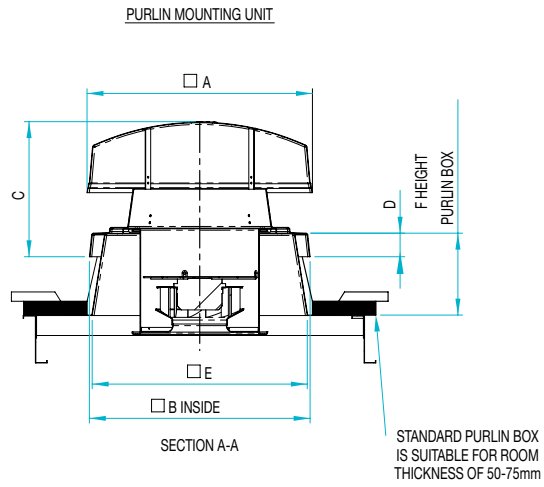
THREE Phase - 380V to 480V / 50Hz or 60Hz

Product Code	Volume m ³ /s	Pressure Pa	Input kW	Speed r/min	Efficiency %	FMEG
SSC630-3EC	0.424	153	0.155	872	47.9	N66

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Skyflow Viper SSC

Dimensional Data



Product Code	A	B	C	D	E	F	G	H	J	K	L	M	N	Weight kg
SSC250	500	495	317	82	494	240	428	175	542	380	340	440	50	13
SSC315	710	684	373	80	610	240	636	250	750	500	460	610	75	20
SSC350														22
SSC400	800	784	475	85	730	250	756	300	870	600	550	700	75	27
SSC450														35
SSC500	960	934	573	100	860	250	886	350	1000	745	700	850	75	51
SSC560														57
SSC630	1230	1054	659	106	1000	250	1026	435	1140	870	830	980	75	69

All dimensions are expressed in mm.

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