VIPER SCC

Duct Mounted Centrifugal Fan

UK Patent number GB2503270

» **Select** models available for next day delivery

VIPER SCC

Product Overview

- Patented design (registration number GB2503270)
- 8 standard sizes from 250mm to 630mm
- Air volume flow rates up to 1.45 m³/s (AC) and 1.73 m³/s (EC)
- Static pressures up to 660 Pa (AC) and 856 Pa (EC)
- Suitable for operating temperatures up to +60°C
- Available in **AC** & **EC**

The Viper SCC Series is an inline duct mounted centrifugal fan and is normally mounted in duct work applications. The Viper incorporates advanced backward curved impellers, with three dimensional profiled blades.

Easy Installation
Fans are supplied with a fitted IP55 terminal box, which allows the fan to be positioned conveniently to incoming electrical inputs.

Efficient Performance
High efficiency low tonal noise backward curved centrifugal impellers are directly driven by an AC or EC external rotor motor, designed to be non-overloading and provide high performance characteristics.

Corrosion resistance
The Viper SCC has been treated against corrosion, powder coated with polyester epoxy paint in pastel beige (RAL 7032)

Controllability
EC motors providing precise speed control via potentiometer, BMS or Elta Fans DCV control. AC external rotor motor variants also available.
Reduced fan speed can provide significant cost-savings through lower energy consumption in both mechanical energy of motors and also on the conditioning of replacement air.

Energy saving
Performance optimised backward curved impellers and IP54 EC motors provide low specific fan powers and stepless speed control without tonal noise generation.

Warranty
Each SCC has a 12 month warranty.

Construction
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).

Motor
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.

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.

Typical Applications
- Sports Hall
- Squash Courts
- Schools & Colleges
- Shops
- Retail Parks
- Commercial
- Kitchens
- Factories
- Industrial Units
- Warehousing

Contents

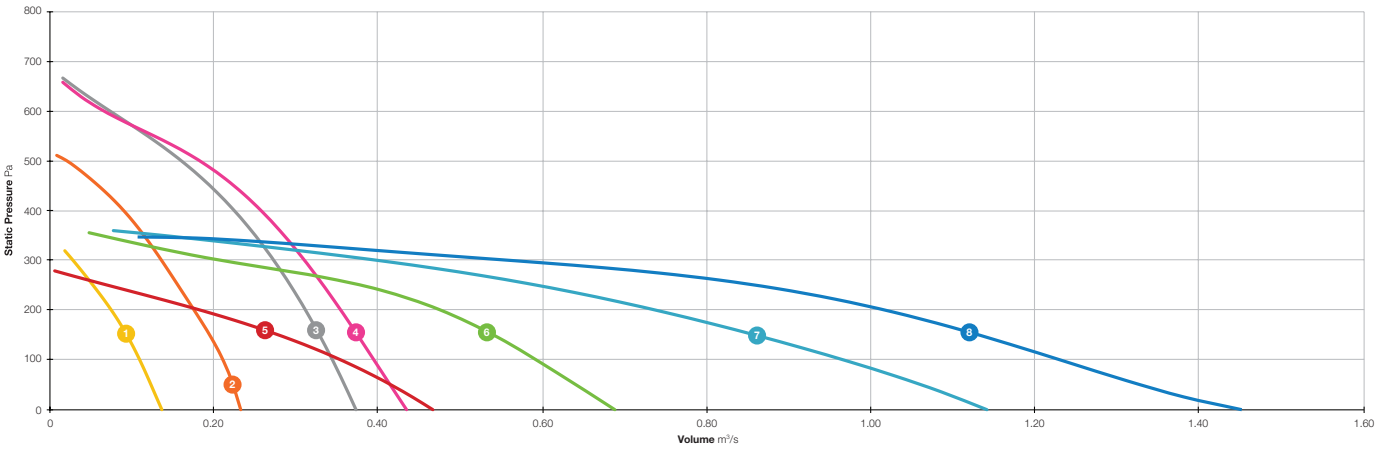
Product Coding

Code	Reference
SCC	Product Range
250	Diameter (250/315/350...)
–	
1	Voltage Supply (Single Phase / Three Phase)
AC	Motor Type (AC/EC)
A - Z	Additional Coding (A - Z) Product Variants
e.g.	**SCC250 / 1AC**

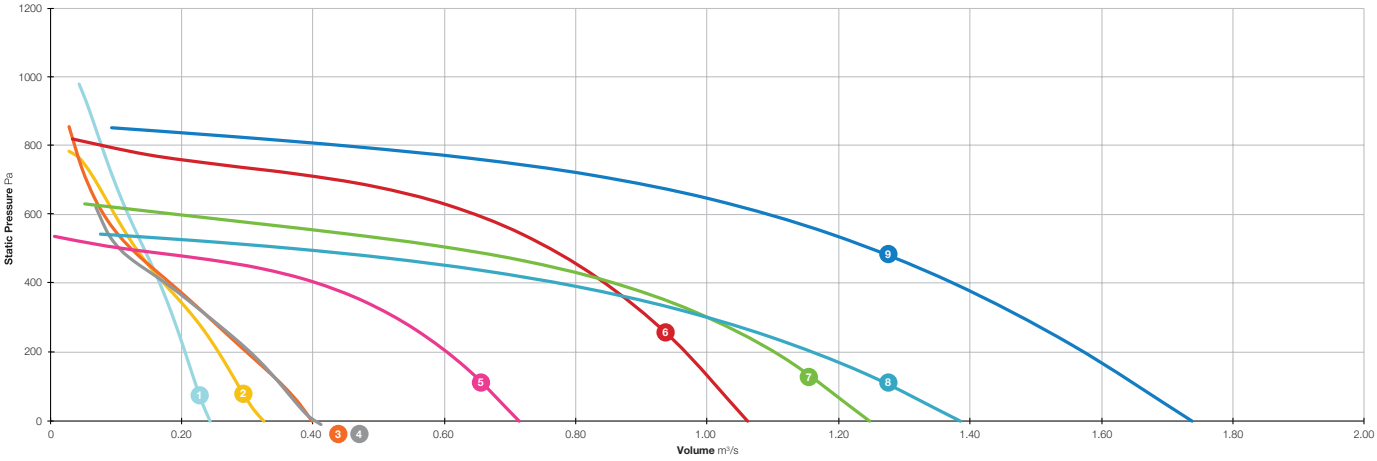
Tel **01384 275800** Fax **01384 275810** Email **info@eltafans.co.uk** Website **eltafans.com**

VIPER SCC

Performance Range Curves



1. SCC250 / 1AC
2. SCC315 / 1AC
3. SCC350 / 1AC
4. SCC400 / 1AC
5. SCC450 / 1AC
6. SCC500 / 1AC
7. SCC560 / 1AC
8. SCC630 / 1AC



1. SCC250 / 1EC
2. SCC315 / 1EC
3. SCC350 / 1EC
4. SCC400 / 1EC
5. SCC450 / 1EC
6. SCC500 / 1EC
7. SCC560 / 1EC
8. SCC630 / 1EC
9. SCC630 / 3EC

VIPER SCC

Performance, SFP & Electrical Data

AC

Single Phase 220V to 240V / 50Hz

Product Code	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	500	Overall Eff %	Input kW	Peak Amps	SC Amps		
SCC250-1AC	2790	**m³/s**	**0.135**	**0.128**	**0.122**	**0.115**	**0.108**	**0.093**	**0.074**	**0.052**	**0.028**	-	-	-	23.7	0.052	0.32	0.48	Inlet	40
		W/(L/s)	0.45	0.48	0.51	0.54	0.58	0.68	0.85	1.17	1.97	-	-	-					Outlet	41
																			Breakout	30
SCC315-1AC	2585	**m³/s**	**0.231**	**0.227**	**0.222**	**0.217**	**0.210**	**0.194**	**0.175**	**0.155**	**0.136**	**0.114**	**0.090**	**0.021**	30.1	0.136	0.60	-	Inlet	49
		W/(L/s)	0.52	0.54	0.57	0.59	0.62	0.70	0.78	0.88	1.01	1.17	1.42	4.79					Outlet	48
																			Breakout	42
SCC350-1AC	2755	**m³/s**	**0.373**	**0.366**	**0.359**	**0.352**	**0.345**	**0.329**	**0.312**	**0.293**	**0.273**	**0.251**	**0.225**	**0.161**	34.3	0.262	1.14	1.70	Inlet	51
		W/(L/s)	0.62	0.64	0.66	0.69	0.71	0.77	0.83	0.90	0.98	1.07	1.18	1.53					Outlet	50
																			Breakout	-
SCC400-1AC	2740	**m³/s**	**0.433**	**0.423**	**0.413**	**0.404**	**0.394**	**0.374**	**0.353**	**0.332**	**0.309**	**0.285**	**0.257**	**0.182**	38.0	0.270	1.17	1.70	Inlet	48
		W/(L/s)	0.52	0.54	0.56	0.58	0.61	0.66	0.72	0.79	0.86	0.95	1.05	1.42					Outlet	49
																			Breakout	-
SCC450-1AC	1285	**m³/s**	**0.467**	**0.442**	**0.416**	**0.386**	**0.354**	**0.278**	**0.182**	**0.069**	-	-	-	-	30.1	0.139	0.65	-	Inlet	45
		W/(L/s)	0.27	0.29	0.32	0.35	0.39	0.50	0.72	1.63	-	-	-	-					Outlet	44
																			Breakout	-
SCC500-1AC	1392	**m³/s**	**0.688**	**0.663**	**0.640**	**0.616**	**0.592**	**0.540**	**0.475**	**0.377**	**0.206**	**0.060**	-	-	37.8	0.257	1.29	3.90	Inlet	43
		W/(L/s)	0.32	0.34	0.37	0.39	0.42	0.47	0.55	0.67	1.03	2.51	-	-					Outlet	43
																			Breakout	-
SCC560-1AC	1350	**m³/s**	**1.142**	**1.104**	**1.062**	**1.016**	**0.967**	**0.859**	**0.737**	**0.592**	**0.396**	**0.133**	-	-	32.3	0.463	2.24	5.00	Inlet	49
		W/(L/s)	0.40	0.41	0.44	0.46	0.49	0.56	0.65	0.77	1.04	2.60	-	-					Outlet	50
																			Breakout	-
SCC630-1AC	1305	**m³/s**	**1.451**	**1.381**	**1.327**	**1.277**	**1.229**	**1.130**	**1.016**	**0.858**	**0.556**	-	-	-	39.7	0.542	2.48	-	Inlet	57
		W/(L/s)	0.34	0.36	0.38	0.40	0.43	0.48	0.54	0.63	0.86	-	-	-					Outlet	58
																			Breakout	-

Data provided is at standard air density of 1.2 kg/m³.
Data in accordance with ErP 1253/2014 of the European Parliament. Product category is NRVU. Measurement category used to determine energy efficiency: D.
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.

VIPER SCC

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	300	350	400	500	Overall Eff %	Input kW	Peak Amps		
SCC250-1EC	10	4045	m³/s	**0.243**	**0.236**	**0.231**	**0.226**	**0.222**	**0.213**	**0.204**	**0.196**	**0.186**	**0.177**	**0.166**	**0.142**	42.8	0.167	1.31	Inlet	52
			W/(L/s)	0.71	0.71	0.72	0.74	0.76	0.79	0.83	0.88	0.92	0.98	1.03	1.18				Outlet	53
	8	3690	m³/s	**0.218**	**0.214**	**0.211**	**0.207**	**0.204**	**0.196**	**0.189**	**0.180**	**0.171**	**0.162**	**0.151**	**0.125**	43.1	0.146	1.12	Inlet	51
			W/(L/s)	0.55	0.58	0.60	0.62	0.64	0.69	0.74	0.79	0.85	0.91	0.98	1.16				Outlet	52
	5	2265	m³/s	**0.130**	**0.123**	**0.116**	**0.109**	**0.100**	**0.081**	**0.054**	-	-	-	-	-	37.6	0.033	0.25	Inlet	40
			W/(L/s)	0.22	0.24	0.26	0.29	0.33	0.41	0.56	-	-	-	-	-				Outlet	40
	2	705	m³/s	**0.039**	-	-	-	-	-	-	-	-	-	-	-	11.4	0.003	0.30	Inlet	-
			W/(L/s)	0.08	-	-	-	-	-	-	-	-	-	-	-				Outlet	-
SCC315-1EC	10	3310	m³/s	**0.324**	**0.312**	**0.303**	**0.295**	**0.287**	**0.271**	**0.255**	**0.238**	**0.219**	**0.196**	**0.173**	**0.131**	40.2	0.172	1.64	Inlet	52
			W/(L/s)	0.53	0.55	0.56	0.58	0.60	0.63	0.67	0.72	0.79	0.88	1.00	1.32				Outlet	52
	8	2960	m³/s	**0.265**	**0.256**	**0.248**	**0.240**	**0.232**	**0.217**	**0.201**	**0.184**	**0.166**	**0.144**	**0.114**	-	41.2	0.118	1.19	Inlet	48
			W/(L/s)	0.34	0.36	0.39	0.44	0.49	0.59	0.68	0.76	0.82	0.87	0.99	-				Outlet	48
	5	1765	m³/s	**0.155**	**0.143**	**0.130**	**0.115**	**0.098**	**0.048**	-	-	-	-	-	-	33.3	0.030	0.31	Inlet	-
			W/(L/s)	0.16	0.18	0.21	0.25	0.31	0.58	-	-	-	-	-	-				Outlet	-
	2	560	m³/s	**0.041**	-	-	-	-	-	-	-	-	-	-	-	10.0	0.003	0.05	Inlet	-
			W/(L/s)	0.08	-	-	-	-	-	-	-	-	-	-	-				Outlet	-
SCC350-1EC	10	2495	m³/s	**0.398**	**0.389**	**0.379**	**0.367**	**0.355**	**0.328**	**0.299**	**0.270**	**0.242**	**0.213**	**0.183**	**0.124**	44.1	0.169	1.55	Inlet	51
			W/(L/s)	0.43	0.44	0.45	0.46	0.48	0.52	0.57	0.63	0.70	0.79	0.93	1.37				Outlet	51
	8	2545	m³/s	**0.380**	**0.370**	**0.361**	**0.351**	**0.340**	**0.319**	**0.296**	**0.271**	**0.244**	**0.215**	**0.182**	**0.099**	44.5	0.170	1.55	Inlet	48
			W/(L/s)	0.35	0.39	0.42	0.45	0.48	0.53	0.58	0.63	0.69	0.79	0.93	1.49				Outlet	46
	5	1555	m³/s	**0.219**	**0.208**	**0.195**	**0.180**	**0.163**	**0.111**	-	-	-	-	-	-	41.7	0.037	0.41	Inlet	39
			W/(L/s)	0.16	0.15	0.19	0.25	0.33	0.38	-	-	-	-	-	-				Outlet	38
	2	510	m³/s	**0.065**	-	-	-	-	-	-	-	-	-	-	-	12.1	0.004	0.05	Inlet	25
			W/(L/s)	0.05	-	-	-	-	-	-	-	-	-	-	-				Outlet	30
SCC400-1EC	10	2515	m³/s	**0.402**	**0.387**	**0.375**	**0.364**	**0.353**	**0.330**	**0.304**	**0.274**	**0.242**	**0.210**	**0.176**	**0.105**	50.5	0.167	1.55	Inlet	53
			W/(L/s)	0.42	0.43	0.45	0.46	0.47	0.50	0.55	0.61	0.69	0.79	0.95	1.58				Outlet	53
	8	2525	m³/s	**0.378**	**0.367**	**0.356**	**0.346**	**0.336**	**0.315**	**0.294**	**0.272**	**0.247**	**0.217**	**0.179**	**0.074**	52.8	0.165	1.53	Inlet	53
			W/(L/s)	0.36	0.38	0.41	0.43	0.46	0.51	0.56	0.62	0.68	0.76	0.91	2.11				Outlet	53
	5	1555	m³/s	**0.212**	**0.194**	**0.181**	**0.168**	**0.153**	**0.105**	-	-	-	-	-	-	47.3	0.042	0.41	Inlet	41
			W/(L/s)	0.15	0.18	0.21	0.23	0.27	0.39	-	-	-	-	-	-				Outlet	41
	2	500	m³/s	**0.078**	-	-	-	-	-	-	-	-	-	-	-	12.5	0.003	0.06	Inlet	23
			W/(L/s)	0.05	-	-	-	-	-	-	-	-	-	-	-				Outlet	24
SCC450-1EC	10	2011	m³/s	**0.713**	**0.702**	**0.690**	**0.677**	**0.664**	**0.635**	**0.604**	**0.568**	**0.526**	**0.474**	**0.406**	**0.113**	49.6	0.372	1.77	Inlet	52
			W/(L/s)	0.40	0.42	0.45	0.47	0.49	0.55	0.60	0.66	0.72	0.80	0.90	1.82				Outlet	54
	8	1592	m³/s	**0.559**	**0.544**	**0.528**	**0.512**	**0.493**	**0.451**	**0.397**	**0.316**	**0.163**	-	-	-	49.3	0.193	0.93	Inlet	46
			W/(L/s)	0.27	0.29	0.31	0.34	0.36	0.42	0.49	0.59	0.85	-	-	-				Outlet	47
	5	962	m³/s	**0.336**	**0.309**	**0.276**	**0.230**	**0.148**	-	-	-	-	-	-	-	40.4	0.052	0.29	Inlet	35
			W/(L/s)	0.13	0.15	0.18	0.23	0.32	-	-	-	-	-	-	-				Outlet	35
	2	333	m³/s	**0.112**	-	-	-	-	-	-	-	-	-	-	-	8.2	0.010	0.11	Inlet	25
			W/(L/s)	0.08	-	-	-	-	-	-	-	-	-	-	-				Outlet	26

Data provided is at standard air density of 1.2 kg/m³.
Data in accordance with ErP 1253/2014 of the European Parliament. Product category is NRVU. 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.

VIPER SCC

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	300	350	400	500	Overall Eff %	Input kW	Peak Amps		
SCC500-1EC	10	2200	**m³/s**	**1.061**	**1.051**	**1.040**	**1.028**	**1.017**	**0.993**	**0.967**	**0.940**	**0.911**	**0.879**	**0.844**	**0.761**	50.9	0.833	3.98	Inlet	55
			W/(L/s)	0.62	0.64	0.66	0.68	0.70	0.74	0.79	0.83	0.88	0.94	0.99	1.12				Outlet	58
	8	1768	**m³/s**	**0.846**	**0.832**	**0.817**	**0.802**	**0.786**	**0.753**	**0.716**	**0.674**	**0.625**	**0.565**	**0.485**	**0.100**	50.7	0.455	2.16	Inlet	50
			W/(L/s)	0.42	0.44	0.46	0.48	0.50	0.55	0.60	0.65	0.72	0.79	0.89	2.23				Outlet	52
	5	1061	**m³/s**	**0.509**	**0.483**	**0.454**	**0.420**	**0.380**	**0.258**	-	-	-	-	-	-	42.3	0.118	0.57	Inlet	38
			W/(L/s)	0.19	0.22	0.24	0.27	0.31	0.42	-	-	-	-	-	-				Outlet	39
	2	375	**m³/s**	**0.171**	-	-	-	-	-	-	-	-	-	-	-	15.9	0.045	0.24	Inlet	20
			W/(L/s)	0.07	-	-	-	-	-	-	-	-	-	-	-				Outlet	21
SCC560-1EC	10	1707	**m³/s**	**1.247**	**1.231**	**1.215**	**1.199**	**1.181**	**1.144**	**1.102**	**1.055**	**1.001**	**0.938**	**0.859**	**0.619**	52.1	0.719	3.38	Inlet	51
			W/(L/s)	0.47	0.49	0.51	0.53	0.54	0.59	0.63	0.68	0.72	0.79	0.86	1.07				Outlet	54
	8	1371	**m³/s**	**0.999**	**0.979**	**0.958**	**0.935**	**0.910**	**0.853**	**0.784**	**0.692**	**0.558**	**0.346**	**0.075**	-	50.8	0.398	1.86	Inlet	46
			W/(L/s)	0.32	0.34	0.36	0.38	0.40	0.45	0.50	0.57	0.67	0.87	2.42	-				Outlet	48
	5	824	**m³/s**	**0.597**	**0.559**	**0.513**	**0.455**	**0.373**	-	-	-	-	-	-	-	44.4	0.101	0.50	Inlet	36
			W/(L/s)	0.14	0.16	0.19	0.22	0.27	-	-	-	-	-	-	-				Outlet	37
	2	276	**m³/s**	**0.197**	-	-	-	-	-	-	-	-	-	-	-	14.1	0.028	0.28	Inlet	21
			W/(L/s)	0.13	-	-	-	-	-	-	-	-	-	-	-				Outlet	22
SCC630-1EC	10	1414	**m³/s**	**1.384**	**1.361**	**1.336**	**1.310**	**1.283**	**1.225**	**1.160**	**1.087**	**1.002**	**0.900**	**0.775**	**0.375**	51.0	0.678	3.10	Inlet	51
			W/(L/s)	0.40	0.42	0.44	0.46	0.48	0.52	0.57	0.63	0.69	0.77	0.86	1.33				Outlet	53
	8	1159	**m³/s**	**1.118**	**1.089**	**1.059**	**1.027**	**0.993**	**0.917**	**0.823**	**0.697**	**0.481**	**0.069**	-	-	51.3	0.391	1.80	Inlet	45
			W/(L/s)	0.27	0.29	0.31	0.33	0.36	0.41	0.47	0.55	0.70	2.36	-	-				Outlet	46
	5	695	**m³/s**	**0.677**	**0.624**	**0.560**	**0.476**	**0.346**	-	-	-	-	-	-	-	44.3	0.098	0.49	Inlet	32
			W/(L/s)	0.12	0.14	0.17	0.21	0.27	-	-	-	-	-	-	-				Outlet	34
	2	233	**m³/s**	**0.222**	-	-	-	-	-	-	-	-	-	-	-	10.0	0.024	0.21	Inlet	20
			W/(L/s)	0.04	-	-	-	-	-	-	-	-	-	-	-				Outlet	20

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A variable speed drive is integrated within the fan.
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Performance, SFP & Electrical Data

EC

Three Phase 380V to 480V / 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	500	Overall Eff %	Input kW	Peak Amps		
SCC630-3EC	10	1806	**m³/s**	**1.737**	**1.717**	**1.698**	**1.678**	**1.658**	**1.616**	**1.573**	**1.527**	**1.480**	**1.429**	**1.374**	**1.250**	51.9	1.350	2.17	Inlet	57
			W/(L/s)	0.60	0.62	0.64	0.67	0.69	0.74	0.78	0.83	0.88	0.93	0.99	1.11				Outlet	60
	8	1451	**m³/s**	**1.388**	**1.364**	**1.340**	**1.315**	**1.290**	**1.234**	**1.173**	**1.105**	**1.028**	**0.937**	**0.827**	**0.456**	52.2	0.725	1.23	Inlet	50
			W/(L/s)	0.40	0.42	0.44	0.46	0.49	0.53	0.58	0.64	0.70	0.77	0.85	1.20				Outlet	53
	5	872	**m³/s**	**0.835**	**0.795**	**0.750**	**0.699**	**0.639**	**0.466**	-	-	-	-	-	-	48.4	0.175	0.46	Inlet	38
			W/(L/s)	0.17	0.19	0.21	0.24	0.27	0.36	-	-	-	-	-	-				Outlet	39
	2	291	**m³/s**	**0.282**	-	-	-	-	-	-	-	-	-	-	-	14.7	0.021	0.18	Inlet	23
			W/(L/s)	0.07	-	-	-	-	-	-	-	-	-	-	-				Outlet	24

Data provided is at standard air density of 1.2 kg/m³.
Data in accordance with ErP 1253/2014 of the European Parliament. Product category is NRVU. Measurement category used to determine energy efficiency: D.
A variable speed drive is integrated within the fan.
Peak Amps @ 400V / 3PH / 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.

VIPER SCC

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	
SCC250-1AC	Inlet	64	63	60	57	53	50	54	47	68
	Outlet	65	63	60	57	56	52	53	46	69
SCC315-1AC	Inlet	71	78	71	65	61	60	60	54	80
	Outlet	73	77	70	64	62	60	56	51	79
SCC350-1AC	Inlet	72	78	71	67	64	62	64	61	80
	Outlet	74	76	71	67	65	62	60	58	79
SCC400-1AC	Inlet	72	73	69	65	61	59	57	60	77
	Outlet	74	72	68	66	62	62	58	59	77
SCC450-1AC	Inlet	75	71	65	61	57	60	48	43	77
	Outlet	75	71	64	62	58	58	47	42	77
SCC500-1AC	Inlet	73	72	64	61	52	56	53	44	76
	Outlet	73	70	63	62	59	55	53	43	75
SCC560-1AC	Inlet	82	78	69	64	59	63	60	51	84
	Outlet	81	76	69	67	65	62	59	50	83
SCC630-1AC	Inlet	83	81	84	69	67	68	65	65	88
	Outlet	85	80	84	72	72	67	65	61	89

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.

Tel **01384 275800** Fax **01384 275810** Email **info@eltafans.co.uk** Website **eltafans.com**

VIPER SCC

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	
SCC250-1EC	10	Inlet	71	74	77	70	64	62	62	61	80
		Outlet	77	74	76	69	66	64	64	58	81
	8	Inlet	70	73	76	69	63	61	61	60	79
		Outlet	73	74	75	68	65	63	63	57	80
	5	Inlet	61	68	63	55	50	52	53	38	70
		Outlet	63	68	62	55	53	55	50	42	70
SCC315-1EC	10	Inlet	74	77	76	69	64	62	60	60	81
		Outlet	78	75	75	68	66	64	62	59	82
	8	Inlet	71	74	73	64	60	58	57	58	78
		Outlet	79	72	72	64	61	61	58	56	81
	5	Inlet	62	64	58	52	48	47	49	44	67
		Outlet	64	62	57	52	51	50	49	43	67
	2	Inlet	50	44	36	33	32	33	34	32	51
		Outlet	50	41	35	34	34	34	33	32	51
SCC350-1EC	10	Inlet	72	77	72	66	63	61	63	65	80
		Outlet	73	75	72	66	64	64	60	62	79
	8	Inlet	69	74	68	62	59	58	62	60	77
		Outlet	70	71	67	62	59	59	59	57	75
	5	Inlet	63	66	58	51	48	53	53	44	69
		Outlet	70	65	58	51	49	53	51	47	72
	2	Inlet	61	54	43	38	35	34	37	38	62
		Outlet	75	55	44	37	35	37	37	39	75
SCC400-1EC	10	Inlet	74	77	74	68	65	63	64	69	81
		Outlet	77	76	73	69	66	66	64	67	81
	8	Inlet	73	74	70	64	61	60	63	64	78
		Outlet	74	73	69	65	61	62	62	62	78
	5	Inlet	65	64	57	54	51	56	55	41	69
		Outlet	67	63	56	54	51	55	56	47	69
	2	Inlet	52	43	35	34	34	37	39	35	53
		Outlet	53	42	33	35	35	37	40	36	54
SCC450-1EC	10	Inlet	77	75	75	70	63	65	60	58	81
		Outlet	83	76	74	73	68	64	61	57	85
	8	Inlet	74	73	68	64	57	58	56	51	77
		Outlet	76	72	68	67	61	58	55	48	78
	5	Inlet	66	64	59	50	45	49	39	37	69
		Outlet	67	64	59	53	47	46	39	37	69
	2	Inlet	51	38	35	33	34	39	42	38	52
		Outlet	51	39	32	34	36	40	43	38	53

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.

VIPER SCC

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	
SCC500-1EC	10	Inlet	83	81	77	74	65	65	67	63	86
		Outlet	82	80	75	75	73	71	69	63	86
	8	Inlet	79	76	71	67	59	62	62	55	81
		Outlet	79	74	70	69	67	65	63	56	81
	5	Inlet	69	65	58	54	50	53	40	37	71
		Outlet	68	64	58	55	54	53	44	38	70
	2	Outlet	46	37	41	42	28	28	30	35	49
SCC560-1EC	10	Inlet	78	77	72	69	63	64	60	64	82
		Outlet	80	76	73	72	69	64	63	61	83
	8	Inlet	75	73	67	63	55	56	58	59	78
		Outlet	76	73	69	66	62	58	57	55	79
	5	Inlet	66	61	54	49	44	52	49	36	68
		Outlet	67	60	56	51	47	54	45	37	68
	2	Inlet	56	39	44	33	28	32	31	36	56
		Outlet	55	41	47	36	29	32	31	36	56
SCC630-1EC	10	Inlet	80	77	72	69	63	61	62	62	83
		Outlet	82	77	73	72	67	62	61	59	84
	8	Inlet	74	72	66	62	56	54	59	48	77
		Outlet	76	71	68	65	61	55	56	47	78
	5	Inlet	65	61	53	48	45	47	35	36	67
		Outlet	65	61	56	51	49	43	35	36	67

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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VIPER SCC

Sound Data

Three Phase 380V to 480V / 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	
SCC630-3EC	10	Inlet	84	82	79	74	70	68	66	64	87
		Outlet	87	82	79	79	75	69	67	63	89
	8	Inlet	80	78	72	67	64	62	60	57	83
		Outlet	82	76	73	72	69	62	61	56	84
	5	Inlet	70	66	58	54	50	52	46	39	72
		Outlet	71	64	61	57	52	53	45	39	72
	2	Inlet	48	38	38	40	36	37	32	37	50
		Outlet	49	38	47	39	35	37	32	37	52

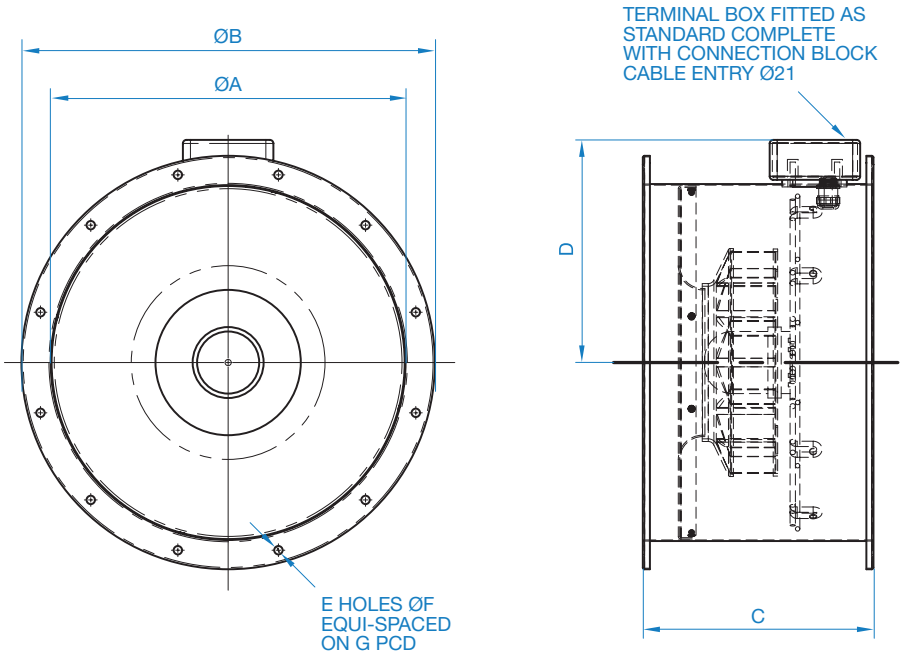
Data provided at standard air density of 1.2 kg/m³.
Tests and preparation of the sound data have been carried out in accordance with BS 848 Part 2:1985 at 50% peak pressure.
The Sound Power Level Spectra are in dB re-1pW.

VIPER SCC

Dimensional Data

Single & Three Phase

Product Code	A	B	C	D	E	F	G	Weight kg
SCC250	257	306	200	164	8	7	286	6
SCC315	317	382	220	192	8	10	356	8
SCC350	356	421	260	211	8	10	395	10
SCC400	400	466	260	243	12	10	438	11
SCC450	450	521	300	268	12	10	487	18
SCC500	503	575	450	294	12	11	541	27
SCC560	560	641	450	327	16	12	606	31
SCC630	630	709	450	361	16	12	674	35



Dimensions are in mm.

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VIPER SCC

Accessories

AC

Single Phase

Product Code	Ancillary Pack*	AV Mounts (set of 4)**	Flanged Silencer 1D Unpodded	Flanged Silencer 2D Unpodded	Impeller Side Guard	Powder Coated Matching Flanges (each)
SCC250-1AC	APK250SCD/001	062-001	068-0250-1DENP	068-0250-2DENP	078C-0250-C	061A-0250-C
SCC315-1AC	APK315SCD/001	062-001	068-0315-1DENP	068-0315-2DENP	078C-0315-C	061A-0315-C
SCC350-1AC	APK350SCD/001	062-001	068-0350-1DENP	068-0350-2DENP	078C-0350-C	061A-0350-C
SCC400-1AC	APK400SCD/001	062-001	068-0400-1DENPC	068-0400-2DENPC	078C-0400-C	061A-0400-C
SCC450-1AC	APK450SCD/001	062-001	068-0450-1DENPC	068-0450-2DENPC	078C-0450-C	061A-0450-C
SCC500-1AC	APK500SCD/002	062-002	068-0500-1DENPC	068-0500-2DENPC	078C-0500-C	061A-0500-C
SCC560-1AC	APK560SCD/002	062-002	068-0560-1DENPC	068-0560-2DENPC	078C-0560-C	061A-0560-C
SCC630-1AC	APK630SCD/002	062-002	068-0630-1DENPC	068-0630-2DENPC	078C-0630-C	061A-0630-C

Product Code	Powder Coated Mounting Feet (each)	Standard Ambient Flexible Connectors (each)	Transformer Controller	Wall Cowl	Wiring Diagram
SCC250-1AC	060A-0250-C	063-0250-MAN150	149-TC12	SWC25/31	152-177
SCC315-1AC	060A-0315-C	063-0315-MAN150	149-TC12	SWC25/31	152-177
SCC350-1AC	060A-0350-C	063-0350-MAN150	149-TC12	SWC35/40	152-177
SCC400-1AC	060A-0400-C	063-0400-MAN150	149-TC12	SWC35/40	152-177
SCC450-1AC	060A-0450-C	063-0450-MAN150	149-TC12	SWC45/50	152-177
SCC500-1AC	060A-0500-C	063-0500-MAN150	149-TC12	SWC45/50	152-104A
SCC560-1AC	060A-0560-C	063-0560-MAN150	149-TC18	SWC56/63	152-104A
SCC630-1AC	060A-0630-C	063-0630-MAN200	149-TC110	SWC56/63	152-104A

*Consists of Flexible Connections, Matching Flanges, AV Mounts and Mounting Feet.
**Supplied as a single mount.

VIPER SCC

Accessories

Single Phase

Product Code	Ancillary Pack*	AV Mounts (set of 4)**	EC Electronic Controller	Flanged Silencer 1D Unpodded	Flanged Silencer 2D Unpodded	Impeller Side Guard
SCC250-1EC	APK250SCD/001	062-001	149-POT-10-MI	068-0250-1DENP	068-0250-2DENP	078C-0250-C
SCC315-1EC	APK315SCD/001	062-001	149-POT-10-MI	068-0315-1DENP	068-0315-2DENP	078C-0315-C
SCC350-1EC	APK350SCD/001	062-001	149-POT-10-MI	068-0350-1DENP	068-0350-2DENP	078C-0350-C
SCC400-1EC	APK400SCD/001	062-001	149-POT-10-MI	068-0400-1DENPC	068-0400-2DENPC	078C-0400-C
SCC450-1EC	APK450SCD/001	062-001	149-POT-10-MI	068-0450-1DENPC	068-0450-2DENPC	078C-0450-C
SCC500-1EC	APK500SCD/002	062-002	149-POT-10-MI	068-0500-1DENPC	068-0500-2DENPC	078C-0500-C
SCC560-1EC	APK560SCD/002	062-002	149-POT-10-MI	068-0560-1DENPC	068-0560-2DENPC	078C-0560-C
SCC630-1EC	APK630SCD/002	062-002	149-POT-10-MI	068-0630-1DENPC	068-0630-2DENPC	078C-0630-C

Product Code	Powder Coated Matching Flanges (each)	Powder Coated Mounting Feet (each)	Standard Ambient Flexible Connectors (each)	Wall Cowl	Wiring Diagram
SCC250-1EC	061A-0250-C	060A-0250-C	063-0250-MAN150	SWC25/31	152-00036
SCC315-1EC	061A-0315-C	060A-0315-C	063-0315-MAN150	SWC25/31	152-00036
SCC350-1EC	061A-0350-C	060A-0350-C	063-0350-MAN150	SWC35/40	152-00036
SCC400-1EC	061A-0400-C	060A-0400-C	063-0400-MAN150	SWC35/40	152-00036
SCC450-1EC	061A-0450-C	060A-0450-C	063-0450-MAN150	SWC45/50	152-00298951
SCC500-1EC	061A-0500-C	060A-0500-C	063-0500-MAN150	SWC45/50	152-MOEA03K1
SCC560-1EC	061A-0560-C	060A-0560-C	063-0560-MAN150	SWC56/63	152-MOEA03K1
SCC630-1EC	061A-0630-C	060A-0630-C	063-0630-MAN200	SWC56/63	152-MOEA03K1

*Consists of Flexible Connections, Matching Flanges, AV Mounts and Mounting Feet.
**Supplied as a single mount.

VIPER SCC

Accessories

EC

Three Phase

Product Code	Ancillary Pack*	AV Mounts (set of 4)**	EC Electronic Controller	Flanged Silencer 1D Unpodded	Flanged Silencer 2D Unpodded
SCC630-3EC	APK630SCD/002	062-002	149-POT-10-MI	068-0630-1DENPC	068-0630-2DENPC

Product Code	Impeller Side Guard	Powder Coated Matching Flanges (each)	Powder Coated Mounting Feet (each)	Standard Ambient Flexible Connectors (each)	Wall Cowl	Wiring Diagram
SCC630-3EC	078C-0630-C	060A-0630-C	061A-0630-C	063-0630-MAN200	SWC56/63	152-MOEA03K3

*Consists of Flexible Connections, Matching Flanges, AV Mounts and Mounting Feet.
**Supplied as a single mount.

VIPER SCC

Notes

Tel **01384 275800** Fax **01384 275810** Email **info@eltafans.co.uk** Website **eltafans.com**

VIPER SCC

Notes

Building Services

Tel **+44 (0) 1384 275800**
Fax **+44 (0) 1384 275810**
Email **info@eltafans.co.uk**

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

Applied Technology & Building Services Export

Tel **+44 (0) 1489 566500**
Fax **+44 (0) 1489 566555**
Email **at@eltafans.co.uk** / **export@eltafans.co.uk**

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

eltafans.com

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