QUIETFLOW SQS

Centrifugal Box Fan

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

QUIETFLOW SQS

Product Overview

- 8 sizes from 100mm to 500mm
- Air volume flow rates up to 1.789 m³/s
- Static pressures up to 1061 Pa
- Suitable for operating temperatures up to +60°C
- Robust galvanised sheet steel casing
- Available in **EC**

Acoustically lined single in-line centrifugal fans, suitable for internal duct mounting. The Quietflow incorporates advanced backward curved impellers, with three dimensional profiled blades.

Low Noise
Each unit is acoustically lined internally with Class O rated (BS 476 Parts 6 and 7) fire resistant acoustic foam lining minimising breakout noise levels.

Easy Installation
New multi-mount brackets allow easy mounting in a range of orientations.

Easy Commissioning
Integrated commissioning control allowing single speed selection and also limiting maximum speed if used with an external potentiometer.

Efficient Performance
High efficiency low tonal noise backward curved centrifugal impellers are directly driven by an EC external rotor motor, provide low specific fan powers and stepless speed control without tonal noise generation.

Weather Resistance
Units can be weatherproofed in the factory to allow external installation.

Controllability
EC motors provide precise speed control via potentiometer, BMS or Elta Fans DCV control. 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.

Warranty
Each SQS has a 12 month warranty.

Construction
Featuring a robust 1.2mm galvanised mild steel sheet casing. Each casing provides spigots to suit standard circular ducting. A removable lid is provided as standard to allow easy maintenance and cleaning.

Motor
Units have an EC external rotor motor fitted as standard.
The motor contains sealed for life bearings with a Thermal Class to THCL 130 or 155 dependent on size.
All motors are suitable for use in ambient air conditions up to +60°C.

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
- Toilets
- Bathrooms
- Hotels
- Schools
- Colleges
- Libraries
- Kitchens
- Factories
- Industrial Units
- Warehousing

Contents

Product Coding

Code	Reference
SQS	Product Range
125	Diameter (125/150/200...)
–	
1	Voltage Supply (Single Phase / Three Phase)
EC	Motor Type (EC)
A - Z	Additional Coding (A - Z) Product Variants
e.g.	**SQS125 / 1ECL**

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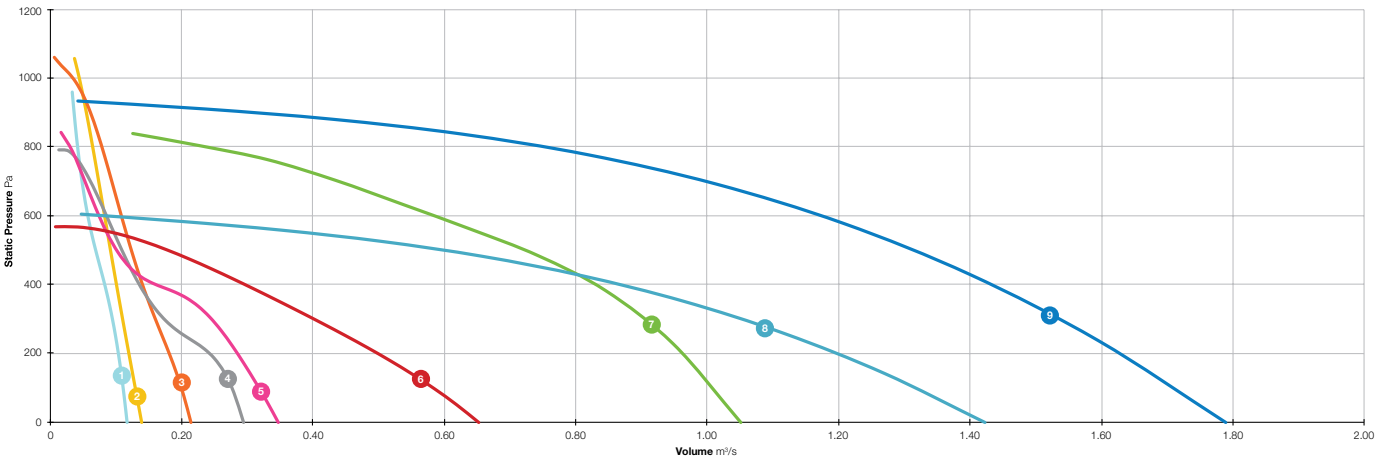
QUIETFLOW SQS

Performance Range Curves



1. SQS100 / 1ECL
2. SQS125 / 1ECL
3. SQS150 / 1ECL
4. SQS200 / 1ECL
5. SQS250 / 1ECL
6. SQS315 / 1ECL
7. SQS400 / 1ECL
8. SQS500 / 1ECL
9. SQS500 / 3ECL

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QUIETFLOW SQS

Performance, SFP & Electrical Data

EC

Single Phase 200V 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		Motor Electrical Data	dBA @ 3m	
				0	25	50	75	100	150	200	250	300	350	400	500	Overall Eff %	Input kW	Peak Amps		
SQS100-1ECL	10	4635	**m³/s**	**0.116**	**0.115**	**0.113**	**0.112**	**0.110**	**0.107**	**0.103**	**0.099**	**0.094**	**0.089**	**0.082**	**0.069**	23.7	0.167	1.51	Inlet	51
			W/(L/s)	1.42	1.43	1.45	1.47	1.50	1.54	1.60	1.67	1.76	1.87	2.01	2.41				Outlet	50
																			Breakout	44
	8	4185	**m³/s**	**0.109**	**0.107**	**0.106**	**0.104**	**0.102**	**0.098**	**0.093**	**0.088**	**0.081**	**0.073**	**0.065**	**0.047**	26.0	0.113	1.30	Inlet	48
			W/(L/s)	1.30	1.31	1.33	1.34	1.36	1.39	1.43	1.48	1.55	1.66	1.80	2.26				Outlet	50
																			Breakout	44
	5	2485	**m³/s**	**0.070**	**0.066**	**0.062**	**0.058**	**0.053**	**0.039**	**0.020**	-	-	-	-	-	24.0	0.029	0.33	Inlet	44
			W/(L/s)	0.49	0.51	0.53	0.55	0.59	0.75	1.21	-	-	-	-	-				Outlet	42
																			Breakout	38
	2	800	**m³/s**	**0.020**	-	-	-	-	-	-	-	-	-	-	-	7.9	0.003	0.05	Inlet	-
			W/(L/s)	0.07	-	-	-	-	-	-	-	-	-	-	-				Outlet	-
																			Breakout	-
SQS125-1ECL	10	3715	**m³/s**	**0.140**	**0.138**	**0.135**	**0.133**	**0.130**	**0.125**	**0.120**	**0.115**	**0.111**	**0.106**	**0.101**	**0.092**	34.9	0.171	1.26	Inlet	49
			W/(L/s)	1.19	1.22	1.24	1.27	1.29	1.35	1.40	1.46	1.53	1.60	1.67	1.84				Outlet	54
																			Breakout	43
	8	3810	**m³/s**	**0.135**	**0.132**	**0.130**	**0.128**	**0.125**	**0.120**	**0.115**	**0.110**	**0.104**	**0.098**	**0.092**	**0.078**	34.9	0.126	1.10	Inlet	49
			W/(L/s)	1.14	1.15	1.17	1.19	1.21	1.25	1.30	1.34	1.39	1.45	1.51	1.69				Outlet	48
																			Breakout	42
	5	2260	**m³/s**	**0.080**	**0.076**	**0.072**	**0.068**	**0.064**	**0.053**	**0.038**	-	-	-	-	-	32.1	0.030	0.24	Inlet	49
			W/(L/s)	0.44	0.45	0.47	0.49	0.52	0.59	0.75	-	-	-	-	-				Outlet	41
																			Breakout	36
	2	705	**m³/s**	**0.025**	-	-	-	-	-	-	-	-	-	-	-	10.4	0.003	0.03	Inlet	-
			W/(L/s)	0.11	-	-	-	-	-	-	-	-	-	-	-				Outlet	-
																			Breakout	-
SQS150-1ECL	10	4105	**m³/s**	**0.215**	**0.212**	**0.208**	**0.204**	**0.200**	**0.192**	**0.182**	**0.171**	**0.161**	**0.150**	**0.141**	**0.124**	43.3	0.174	1.26	Inlet	49
			W/(L/s)	0.79	0.81	0.82	0.84	0.86	0.90	0.94	1.00	1.06	1.13	1.21	1.39				Outlet	51
																			Breakout	43
	8	3835	**m³/s**	**0.206**	**0.202**	**0.198**	**0.194**	**0.190**	**0.182**	**0.173**	**0.164**	**0.155**	**0.145**	**0.135**	**0.112**	43.1	0.147	1.14	Inlet	45
			W/(L/s)	0.70	0.72	0.74	0.76	0.79	0.83	0.89	0.94	1.00	1.07	1.15	1.33				Outlet	51
																			Breakout	40
	5	2285	**m³/s**	**0.119**	**0.114**	**0.109**	**0.103**	**0.097**	**0.082**	**0.062**	-	-	-	-	-	45.0	0.034	0.26	Inlet	44
			W/(L/s)	0.30	0.30	0.32	0.34	0.36	0.43	0.53	-	-	-	-	-				Outlet	47
																			Breakout	34
	2	715	**m³/s**	**0.037**	-	-	-	-	-	-	-	-	-	-	-	13.2	0.003	0.03	Inlet	-
			W/(L/s)	0.09	-	-	-	-	-	-	-	-	-	-	-				Outlet	-
																			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.
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.

QUIETFLOW SQS

Performance, SFP & Electrical Data

EC

Single Phase 200V 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		Motor Electrical Data	dBA @ 3m	
				0	25	50	75	100	150	200	250	300	350	400	500	Overall Eff %	Input kW	Peak Amps		
SQS200-1ECL	10	3315	**m³/s**	**0.293**	**0.290**	**0.286**	**0.281**	**0.276**	**0.263**	**0.242**	**0.206**	**0.173**	**0.152**	**0.135**	**0.109**	36.4	0.172	1.59	Inlet	51
			W/(L/s)	0.58	0.59	0.60	0.61	0.62	0.65	0.71	0.83	0.99	1.13	1.27	1.58				Outlet	53
																			Breakout	44
	8	2980	**m³/s**	**0.258**	**0.253**	**0.249**	**0.243**	**0.237**	**0.219**	**0.190**	**0.154**	**0.127**	**0.106**	**0.087**	**0.040**	35.6	0.118	1.20	Inlet	49
			W/(L/s)	0.44	0.45	0.47	0.48	0.50	0.55	0.66	0.83	0.98	1.13	1.30	2.23				Outlet	50
																			Breakout	41
	5	1755	**m³/s**	**0.150**	**0.141**	**0.128**	**0.108**	**0.078**	**0.026**	-	-	-	-	-	-	33.2	0.030	0.31	Inlet	43
			W/(L/s)	0.19	0.20	0.22	0.27	0.38	0.97	-	-	-	-	-	-				Outlet	43
																			Breakout	35
	2	565	**m³/s**	**0.045**	-	-	-	-	-	-	-	-	-	-	-	10.1	0.003	0.05	Inlet	-
			W/(L/s)	0.07	-	-	-	-	-	-	-	-	-	-	-				Outlet	-
																			Breakout	-
SQS250-1ECL	10	2490	**m³/s**	**0.347**	**0.340**	**0.333**	**0.325**	**0.318**	**0.302**	**0.285**	**0.267**	**0.246**	**0.216**	**0.161**	**0.101**	50.8	0.171	1.44	Inlet	49
			W/(L/s)	0.49	0.50	0.51	0.52	0.54	0.57	0.60	0.64	0.70	0.79	1.06	1.69				Outlet	48
																			Breakout	44
	8	2505	**m³/s**	**0.348**	**0.340**	**0.332**	**0.324**	**0.316**	**0.299**	**0.281**	**0.261**	**0.238**	**0.207**	**0.162**	**0.078**	42.5	0.171	1.44	Inlet	47
			W/(L/s)	0.49	0.51	0.52	0.53	0.54	0.57	0.60	0.65	0.72	0.83	1.06	1.86				Outlet	46
																			Breakout	42
	5	1545	**m³/s**	**0.204**	**0.193**	**0.182**	**0.170**	**0.157**	**0.121**	-	-	-	-	-	-	43.6	0.042	0.37	Inlet	36
			W/(L/s)	0.18	0.20	0.22	0.24	0.27	0.35	-	-	-	-	-	-				Outlet	36
																			Breakout	26
	2	480	**m³/s**	**0.063**	-	-	-	-	-	-	-	-	-	-	-	12.6	0.004	0.04	Inlet	-
			W/(L/s)	0.06	-	-	-	-	-	-	-	-	-	-	-				Outlet	-
																			Breakout	-
SQS315-1ECL	10	2020	**m³/s**	**0.652**	**0.636**	**0.619**	**0.601**	**0.583**	**0.542**	**0.498**	**0.451**	**0.401**	**0.349**	**0.296**	**0.178**	33.0	0.358	1.78	Inlet	54
			W/(L/s)	0.59	0.61	0.64	0.66	0.69	0.75	0.82	0.89	0.98	1.09	1.21	1.69				Outlet	53
																			Breakout	48
	8	1555	**m³/s**	**0.500**	**0.477**	**0.452**	**0.427**	**0.401**	**0.343**	**0.278**	**0.201**	**0.105**	-	-	-	31.5	0.172	0.84	Inlet	48
			W/(L/s)	0.37	0.39	0.42	0.45	0.48	0.55	0.65	0.81	1.27	-	-	-				Outlet	47
																			Breakout	41
	5	870	**m³/s**	**0.277**	**0.235**	**0.181**	**0.119**	**0.045**	-	-	-	-	-	-	-	23.4	0.040	0.23	Inlet	39
			W/(L/s)	0.15	0.18	0.23	0.33	0.69	-	-	-	-	-	-	-				Outlet	35
																			Breakout	28
	2	365	**m³/s**	**0.086**	-	-	-	-	-	-	-	-	-	-	-	-	0.010	0.12	Inlet	-
			W/(L/s)	0.10	-	-	-	-	-	-	-	-	-	-	-				Outlet	-
																			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.
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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QUIETFLOW SQS

Performance, SFP & Electrical Data

EC

Single Phase 200V 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		Motor Electrical Data	dBA @ 3m	
				0	25	50	75	100	150	200	250	300	350	400	500	Overall Eff %	Input kW	Peak Amps		
SQS400-1ECL	10	2200	**m³/s**	**1.051**	**1.041**	**1.031**	**1.021**	**1.010**	**0.988**	**0.963**	**0.936**	**0.906**	**0.872**	**0.831**	**0.724**	42.7	0.926	4.39	Inlet	55
			W/(L/s)	0.76	0.77	0.79	0.80	0.82	0.86	0.89	0.94	0.98	1.04	1.10	1.28				Outlet	56
																			Breakout	52
	8	1763	**m³/s**	**0.835**	**0.824**	**0.811**	**0.798**	**0.784**	**0.752**	**0.714**	**0.664**	**0.598**	**0.514**	**0.428**	**0.245**	42.9	-	2.39	Inlet	49
			W/(L/s)	0.50	0.52	0.53	0.55	0.57	0.61	0.66	0.73	0.82	0.94	1.08	1.56				Outlet	50
																			Breakout	46
	5	1059	**m³/s**	**0.506**	**0.479**	**0.449**	**0.414**	**0.371**	**0.238**	-	-	-	-	-	-	36.9	-	0.61	Inlet	40
			W/(L/s)	0.22	0.25	0.27	0.30	0.34	0.51	-	-	-	-	-	-				Outlet	38
																			Breakout	34
	2	354	**m³/s**	**0.164**	-	-	-	-	-	-	-	-	-	-	-	3.5	-	0.20	Inlet	-
			W/(L/s)	0.32	-	-	-	-	-	-	-	-	-	-	-				Outlet	-
																			Breakout	-
SQS500-1ECL	10	1422	**m³/s**	**1.422**	**1.397**	**1.372**	**1.345**	**1.318**	**1.260**	**1.197**	**1.129**	**1.053**	**0.967**	**0.868**	**0.599**	49.5	0.769	3.51	Inlet	45
			W/(L/s)	0.46	0.48	0.50	0.52	0.53	0.57	0.62	0.67	0.73	0.80	0.89	1.19				Outlet	47
																			Breakout	49
	8	1157	**m³/s**	**1.141**	**1.114**	**1.085**	**1.054**	**1.020**	**0.946**	**0.857**	**0.744**	**0.591**	**0.354**	-	-	51.1	-	1.97	Inlet	41
			W/(L/s)	0.31	0.33	0.34	0.36	0.38	0.43	0.49	0.57	0.69	0.97	-	-				Outlet	42
																			Breakout	44
	5	695	**m³/s**	**0.687**	**0.637**	**0.577**	**0.501**	**0.393**	-	-	-	-	-	-	-	44.7	-	0.51	Inlet	28
			W/(L/s)	0.13	0.15	0.18	0.21	0.27	-	-	-	-	-	-	-				Outlet	28
																			Breakout	30
	2	234	**m³/s**	**0.231**	-	-	-	-	-	-	-	-	-	-	-	3.7	-	0.19	Inlet	-
			W/(L/s)	0.22	-	-	-	-	-	-	-	-	-	-	-				Outlet	-
																			Breakout	-

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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.

QUIETFLOW SQS

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		Motor Electrical Data	dBA @ 3m	
				0	25	50	75	100	150	200	250	300	350	400	500	Overall Eff %	Input kW	Peak Amps		
SQS500-3ECL	10	1799	**m³/s**	**1.789**	**1.770**	**1.751**	**1.732**	**1.712**	**1.671**	**1.628**	**1.583**	**1.536**	**1.486**	**1.432**	**1.313**	51.0	1.495	2.31	Inlet	51
			W/(L/s)	0.69	0.71	0.73	0.74	0.76	0.80	0.84	0.88	0.93	0.97	1.03	1.14				Outlet	57
																			Breakout	57
	8	1446	**m³/s**	**1.419**	**1.397**	**1.373**	**1.349**	**1.323**	**1.269**	**1.210**	**1.145**	**1.072**	**0.988**	**0.889**	**0.620**	51.8	-	1.29	Inlet	46
			W/(L/s)	0.45	0.47	0.49	0.50	0.52	0.57	0.61	0.66	0.72	0.79	0.87	1.15				Outlet	48
																			Breakout	51
	5	869	**m³/s**	**0.852**	**0.813**	**0.768**	**0.718**	**0.660**	**0.500**	**0.197**	-	-	-	-	-	47.5	-	0.47	Inlet	34
			W/(L/s)	0.19	0.21	0.23	0.25	0.28	0.37	0.73	-	-	-	-	-				Outlet	34
																			Breakout	37
	2	292	**m³/s**	**0.284**	-	-	-	-	-	-	-	-	-	-	-	14.3	-	0.16	Inlet	-
			W/(L/s)	0.08	-	-	-	-	-	-	-	-	-	-	-				Outlet	-
																			Breakout	-

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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.

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QUIETFLOW SQS

Sound Data

Single Phase 200V 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	
SQS100-1ECL	10	Inlet	75	75	79	69	54	50	44	44	82
		Outlet	83	80	76	67	57	51	43	39	85
		Breakout	62	70	70	62	57	51	48	47	74
	8	Inlet	73	74	77	59	52	48	43	41	80
		Outlet	85	79	77	66	55	49	41	37	87
		Breakout	61	70	70	61	56	51	47	46	74
	5	Inlet	66	69	73	47	41	38	32	30	75
		Outlet	73	72	69	54	42	40	31	25	76
		Breakout	51	65	66	49	47	38	34	31	69
SQS125-1ECL	10	Inlet	82	77	77	62	53	49	44	44	84
		Outlet	84	77	81	72	55	51	42	40	86
		Breakout	60	70	67	60	57	51	47	46	72
	8	Inlet	72	78	77	60	52	48	42	42	81
		Outlet	83	76	75	63	53	49	41	37	84
		Breakout	58	70	67	59	56	51	46	45	72
	5	Inlet	69	71	78	51	41	37	31	29	79
		Outlet	72	68	69	52	40	40	31	27	75
		Breakout	51	60	65	48	44	37	33	29	66
SQS150-1ECL	10	Inlet	89	74	75	65	56	52	48	47	89
		Outlet	83	77	79	68	56	54	50	48	85
		Breakout	66	64	66	62	57	52	47	44	71
	8	Inlet	74	72	73	58	53	49	45	44	78
		Outlet	80	75	79	65	53	52	48	44	83
		Breakout	62	62	66	57	54	49	44	40	69
	5	Inlet	65	67	73	49	41	38	33	30	75
		Outlet	69	72	76	54	42	44	37	33	78
		Breakout	47	56	62	49	42	36	30	24	63
SQS200-1ECL	10	Inlet	80	79	78	67	60	54	52	52	84
		Outlet	90	81	80	68	58	55	51	48	91
		Breakout	63	67	68	62	58	53	48	45	72
	8	Inlet	77	78	76	64	56	50	49	49	82
		Outlet	80	79	78	63	55	51	49	46	84
		Breakout	61	65	67	58	55	50	45	42	70
	5	Inlet	68	71	71	52	43	37	38	35	75
		Outlet	68	74	70	53	43	41	36	30	76
		Breakout	51	60	63	49	43	37	34	32	65

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**

QUIETFLOW SQS

Sound Data

Single Phase 200V 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	
SQS250-1ECL	10	Inlet	78	76	77	64	55	50	49	47	82
		Outlet	80	76	75	64	55	54	49	44	82
		Breakout	59	65	71	60	55	49	43	41	73
	8	Inlet	75	74	75	59	50	45	45	44	80
		Outlet	76	72	74	60	51	49	45	40	79
		Breakout	55	63	70	56	50	44	38	36	71
	5	Inlet	67	71	57	49	38	33	38	27	73
		Outlet	66	71	56	48	38	37	34	33	72
		Breakout	46	56	51	44	38	30	28	22	58
SQS315-1ECL	10	Inlet	78	77	83	63	50	52	48	47	85
		Outlet	80	77	81	67	60	52	47	44	85
		Breakout	68	70	76	64	58	53	48	46	78
	8	Inlet	74	84	68	55	44	45	42	40	85
		Outlet	75	82	68	59	54	45	40	36	83
		Breakout	63	73	65	58	53	47	41	39	74
	5	Inlet	67	75	55	43	34	35	30	19	76
		Outlet	67	71	55	46	40	30	27	18	73
		Breakout	55	60	52	45	40	33	26	22	62
SQS400-1ECL	10	Inlet	81	80	83	69	61	58	56	57	86
		Outlet	83	79	82	75	68	62	56	52	87
		Breakout	72	73	78	70	65	60	51	50	81
	8	Inlet	78	80	76	63	54	52	50	50	83
		Outlet	79	78	75	69	60	54	50	45	83
		Breakout	68	72	72	64	58	52	45	44	76
	5	Inlet	68	75	62	48	43	42	38	24	76
		Outlet	70	71	61	54	47	40	34	22	74
		Breakout	58	66	58	49	45	38	35	28	67
SQS500-1ECL	10	Inlet	77	76	67	62	57	54	51	51	80
		Outlet	77	80	71	64	58	51	46	42	82
		Breakout	74	80	74	66	60	54	48	44	82
	8	Inlet	74	72	63	57	54	49	46	48	76
		Outlet	73	74	66	58	53	45	40	39	77
		Breakout	69	75	68	61	56	49	43	41	77
	5	Inlet	65	61	49	43	38	37	37	29	67
		Outlet	66	60	52	44	29	32	30	27	67
		Breakout	65	60	53	47	42	36	36	25	66

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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Confirmation of dimensions and data will be supplied on request.

QUIETFLOW SQS

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	
SQS500-3ECL	10	Inlet	81	80	75	68	63	62	60	53	84
		Outlet	82	84	85	71	66	61	58	47	89
		Breakout	80	82	83	75	69	63	57	53	87
	8	Inlet	78	77	67	63	57	55	52	50	81
		Outlet	77	81	71	65	58	52	47	41	83
		Breakout	75	80	75	69	63	57	52	47	82
	5	Inlet	70	66	56	50	43	45	42	31	72
		Outlet	69	66	58	51	44	40	34	27	71
		Breakout	66	68	61	54	49	44	38	31	71

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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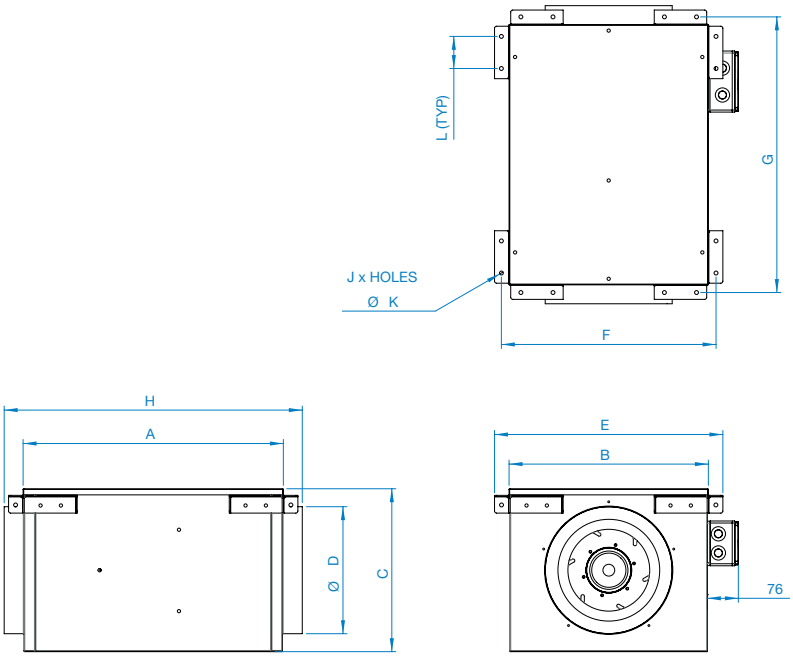
QUIETFLOW SQS

Dimensional Data

Single & Three Phase

Product Code	A	B	C	D	E	F	G	H	J	K	L	Weight kg
SQS100-1ECL	513	355	261	97	394	375	533	606	16	8	50	14
SQS125-1ECL	513	355	261	122	394	375	533	606	16	8	50	14
SQS150-1ECL	513	355	261	147	394	375	533	606	16	8	50	14
SQS200-1ECL	588	401	303	197	440	421	608	681	16	8	50	17
SQS250-1ECL	588	401	333	247	440	421	608	681	16	8	50	19
SQS315-1ECL	639	490	400	312	561	527	677	732	16	10	79	29
SQS400-1ECL	704	575	472	397	646	612	742	797	16	10	79	44
SQS500-1ECL	884	755	601	497	826	792	922	977	16	10	79	65
SQS500-3ECL	884	755	601	497	826	792	922	977	16	10	79	65



Dimensions are in mm.

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QUIETFLOW SQS

EcoDesign 1253/2014 - Information Requirements

REV2 01/05/2018

A	B	C*			D	E	F	G	H	I	J	K	L	N	O	P	Q	R	S
		C.1	C.2	C.3															
Elta Fans Ltd	**SQS100-1ECL**	NRVU	UVU	2018	Variable-Speed	None	n/a	0.040	0.029	n/a	5.09	148	n/a	24.0	<2	n/a	n/a	65	www.eltafans.com
Elta Fans Ltd	**SQS125-1ECL**	NRVU	UVU	2018	Variable-Speed	None	n/a	0.070	0.171	n/a	5.70	747	n/a	34.9	<2	n/a	n/a	63	www.eltafans.com
Elta Fans Ltd	**SQS150-1ECL**	NRVU	UVU	2018	Variable-Speed	None	n/a	0.100	0.174	n/a	5.66	663	n/a	43.2	<2	n/a	n/a	63	www.eltafans.com
Elta Fans Ltd	**SQS200-1ECL**	NRVU	UVU	2018	Variable-Speed	None	n/a	0.120	0.172	n/a	3.82	458	n/a	36.4	<2	n/a	n/a	64	www.eltafans.com
Elta Fans Ltd	**SQS250-1ECL**	NRVU	UVU	2018	Variable-Speed	None	n/a	0.220	0.171	n/a	4.48	340	n/a	50.8	<2	n/a	n/a	64	www.eltafans.com
Elta Fans Ltd	**SQS315-1ECL**	NRVU	UVU	2018	Variable-Speed	None	n/a	0.240	0.172	n/a	3.08	226	n/a	31.5	<2	n/a	n/a	69	www.eltafans.com
Elta Fans Ltd	**SQS400-1ECL**	NRVU	UVU	2018	Variable-Speed	None	n/a	0.706	0.926	n/a	5.61	514	n/a	42.7	<2	n/a	n/a	55	www.eltafans.com
Elta Fans Ltd	**SQS500-1ECL**	NRVU	UVU	2018	Variable-Speed	None	n/a	0.863	0.769	n/a	4.40	402	n/a	49.5	<2	n/a	n/a	45	www.eltafans.com
Elta Fans Ltd	**SQS500-3ECL**	NRVU	UVU	2018	Variable-Speed	None	n/a	1.088	1.495	n/a	5.54	652	n/a	51.0	<2	n/a	n/a	51	www.eltafans.com

A Manufacturer's Name
B Model Identifier
C.1 RVU or NRVU
C.2 UVU or BVU
C.3 ErP Compliance
D Type of Drive (MSD or VSD)
E Type of HRS (Run Around or Other or None)
F Thermal Efficiency (% or N/A)
G Nominal Flow Rate (m^3/s)
H Effective Electrical Power Input (kW)
I SFP Int ($W/m^3/s$)
J Face Velocity (m/s)
K Nominal External Pressure (Pa)
L Internal Pressure Drop of Ventilation Components (Pa)
N Static Efficiency of Fan Used 327/2011
O Maximum External Leakage Rate (%)
P Energy Classification of Filters
Q Description of Visual Filter warning
R Casing Sound Power Level (LWA)
S Website for Disassembly Instructions

* Declared Typology C

QUIETFLOW SQS

Accessories

Single Phase

Product Code	Box Fan AV Mounts (set of 4)	Box Fan Flexible Connectors (each)	EC Electronic Controller	Electric Heater Battery	Fast Clamps (each)	Panel Filter
SQS100-1ECL	062-SEL03	018-0100-FLEX	149-POT-10	018-CV10-06-1M	018-100-CLAMP	018-0100-FILT-P
SQS125-1ECL	062-SEL03	018-0125-FLEX	149-POT-10	018-CV12-12-1M	018-125-CLAMP	018-0125-FILT-P
SQS150-1ECL	062-SEL03	018-0150-FLEX	149-POT-10	018-CV15-27-1M	018-150-CLAMP	018-0150-FILT-P
SQS200-1ECL	062-SEL03	018-0200-FLEX	149-POT-10	018-CV20-30-1M	018-200-CLAMP	018-0200-FILT-P
SQS250-1ECL	062-SEL03	018-0250-FLEX	149-POT-10	018-CV25-30-1M	018-250-CLAMP	018-0250-FILT-P
SQS315-1ECL	062-SEL03	018-0315-FLEX	149-POT-10	018-CV31-30-1M 018-CV31-45-1M 018-CV31-90-3M	018-315-CLAMP	018-0315-FILT-P
SQS400-1ECL	062-SEL04	018-0400-FLEX	149-POT-10	018-CV40-90-3M 018-CV40-120-3E	018-400-CLAMP	018-0400-FILT-P
SQS500-1ECL	062-SEL05	018-0500-FLEX	149-POT-10	-	018-500-CLAMP	018-0500-FILT-P

Product Code	Spigot Silencer 300mm Long	Spigot Silencer 600mm Long	Spigot Silencer 900mm Long	Spigot Silencer 1200mm Long	Wiring Diagram
SQS100-1ECL	068-0100-JF1	068-0100-JF2	068-0100-JF3	068-0100-JF4	152-00036
SQS125-1ECL	068-0125-JF1	068-0125-JF2	068-0125-JF3	068-0125-JF4	152-00036
SQS150-1ECL	068-0150-JF1	068-0150-JF2	068-0150-JF3	068-0150-JF4	152-00036
SQS200-1ECL	068-0200-JF1	068-0200-JF2	068-0200-JF3	068-0200-JF4	152-00036
SQS250-1ECL	068-0250-JF1	068-0250-JF2	068-0250-JF3	068-0250-JF4	152-00036
SQS315-1ECL	068-0315-JF1	068-0315-JF2	068-0315-JF3	068-0315-JF4	152-00298951
SQS400-1ECL	068-0400-JF1	068-0400-JF2	068-0400-JF3	068-0400-JF4	152-MOEA03K1
SQS500-1ECL	068-0500-JF1	068-0500-JF2	068-0500-JF3	068-0500-JF4	152-MOEA03K1

Three Phase

Product Code	Box Fan AV Mounts (set of 4)	Box Fan Flexible Connectors (each)	EC Electronic Controller	Fast Clamps (each)	Panel Filter
SQS500-3ECL	062-SEL05	018-0500-FLEX	149-POT-10	018-500-CLAMP	018-0500-FILT-P

Product Code	Spigot Silencer 300mm Long	Spigot Silencer 600mm Long	Spigot Silencer 900mm Long	Spigot Silencer 1200mm Long	Wiring Diagram
SQS500-3ECL	068-0500-JF1	068-0500-JF2	068-0500-JF3	068-0500-JF4	152-MOEA03K3

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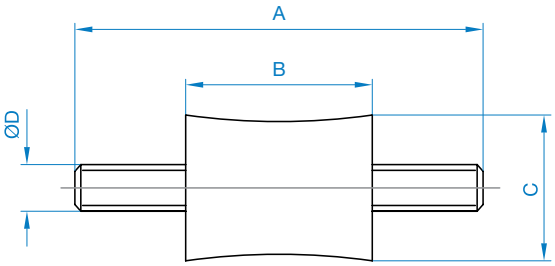
BOX FAN AV MOUNTS

Accessories

- Fits directly to fan
- Rubber with steel insert
- Supplied as set of 4 or 6, complete with fixings

Product Code	A	B	C	D	Weight kg
062-SEL03	70	32	25	M8	0.210
062-SEL04	60	20	25	M8	0.186
062-SEL05	60	20	25	M8	0.187



Dimensions are in mm.

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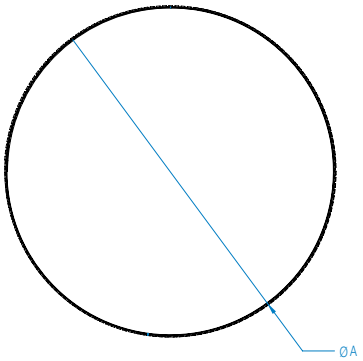
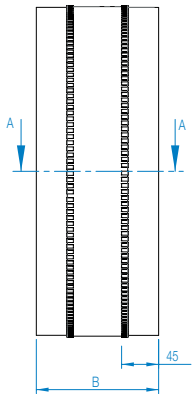
BOX FAN FLEXIBLE CONNECTOR

Accessories

- Fix directly on to spigot
- Provides flexible connection between fan and accessory or duct
- PVC coated polyester with galvanised sheet steel

Product Code	Fan Dia. A	B	Weight kg
018-0100-FLEX	100	150	0.2
018-0125-FLEX	125	150	0.2
018-0150-FLEX	150	150	0.2
018-0200-FLEX	200	150	0.3
018-0250-FLEX	250	150	0.4
018-0315-FLEX	315	150	0.5
018-0400-FLEX	400	150	0.7
018-0500-FLEX	500	150	1.0





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EC ELECTRONIC CONTROLLER

Accessories

- EC Type fans
- Variable Speed Drives (Inverters)

EC

Product Code
149-POT-10

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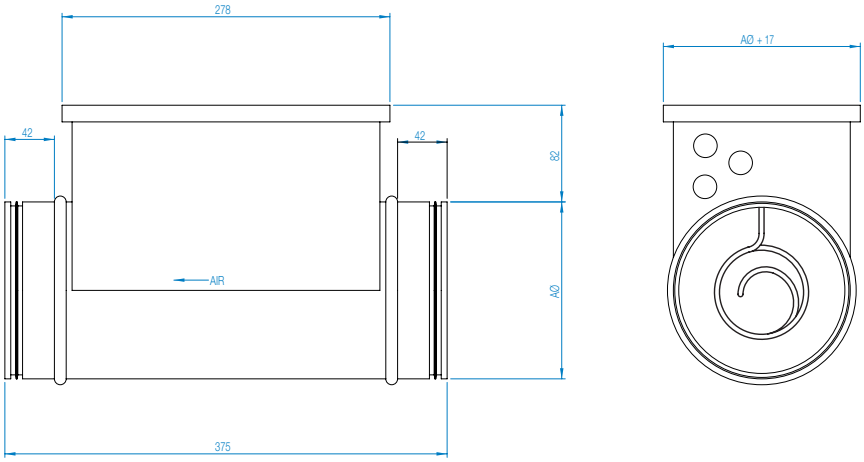
ELECTRIC HEATER BATTERY

Accessories

Type

CV – (E/M) duct heater with casing of Aluzinc-coated sheet steel and stainless steel heater element to EN 1.4301. The duct heaters conform to air tightness class C to EN 15727. Control takes place by an external regulator and sensor that must be ordered separately.

Product Code	kW	Phase	Airflow @ m³/s		A	Weight kg
			Min	Max		
018-CV10-06-1M	0.6	1	0.012	0.046	100	2.3
018-CV12-12-1M	1.2	1	0.019	0.093	125	3.0
018-CV15-27-1M	2.7	1	0.031	0.208	150	4.2
018-CV20-30-1M	3.0	1	0.047	0.231	200	5.9
018-CV25-30-1M	3.0	1	0.075	0.231	250	7.8
018-CV31-30-1M	3.0	1	0.115	0.231	315	8.3
018-CV31-45-1M	4.5	1	0.115	0.347	315	8.3
018-CV31-90-3M	9.0	3	0.115	0.694	315	8.3
018-CV35-90-3M	9.0	3	0.192	0.694	355	9.1
018-CV40-90-3M	9.0	3	0.192	0.694	400	9.7
018-CV40-120-3E	12.0	3	0.192	0.926	400	9.7

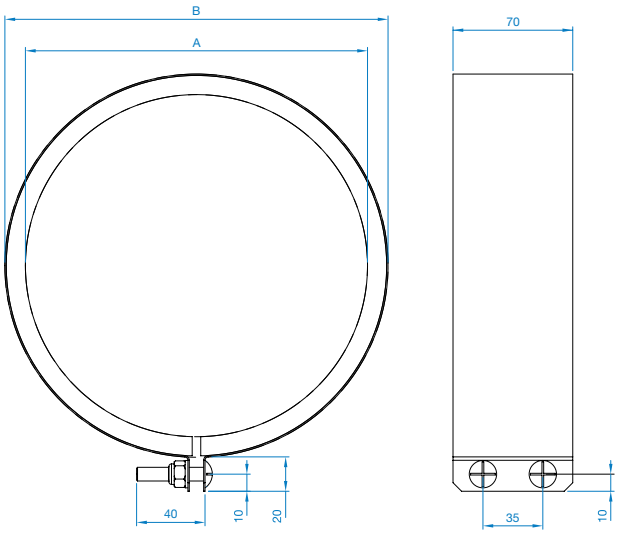


FAST CLAMPS

Accessories

- For quick connection of spigotted fans to circular duct or accessories
- Galvanised steel circular duct clamp with foam lining

Product Code	Fan Size	A Dia.	B Dia.	Weight kg
018-100-CLAMP	100	100	124	0.25
018-125-CLAMP	125	125	149	0.29
018-150-CLAMP	150	150	174	0.33
018-200-CLAMP	200	200	224	0.42
018-250-CLAMP	250	250	274	0.49
018-315-CLAMP	315	315	339	0.59
018-400-CLAMP	400	400	424	0.74
018-500-CLAMP	500	500	524	0.87



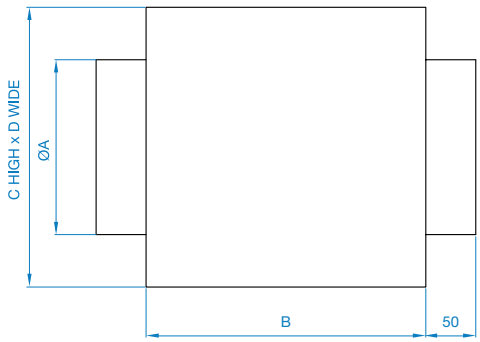
Dimensions are in mm.

PANEL FILTER

Accessories

- Galvanised steel casing
- Filter media to BS EN 779 rating G2 with 85% arrestance
- Filter access with removable panel

Product Code	Fan Dia. A	B	C	D	Weight kg
018-0100-FILT-P	100	155	200	200	2
018-0125-FILT-P	125	155	200	200	2
018-0150-FILT-P	150	155	250	250	2
018-0200-FILT-P	200	155	250	250	2
018-0250-FILT-P	250	200	300	300	3
018-0315-FILT-P	315	300	440	440	8
018-0400-FILT-P	400	400	440	440	8
018-0500-FILT-P	500	500	550	550	11



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SPIGOT SILENCER

Accessories

- Small metric range of attenuators with spigot connection
- Ideal for small fans
- Ideal for cross talk elimination
- Ideal for flexible or spiral ducting

Construction

Both types are rigidly constructed in galvanised sheet steel, with a highly absorbent sound attenuating lining between the outer casing and the inner perforated steel lining. The end faces of the silencer do not have threaded holes for fixings, but has a steel spigot for ease of mounting.

Melinex lined silencers must be used to prevent grease impregnation into the acoustic media for kitchen extract applications as prescribed in DW/172 HVAC Specification For Kitchen Ventilation Systems. For Melinex insertion losses, please contact Elta Fans. Silencers can be provided with differing lengths: 300, 600, 900 and 1200mmm.

Silencer Attenuation

To determine the sound level of a fan fitted with a silencer, the dynamic insertion loss should be subtracted from the sound power level spectrum (dBW) of the fan. This should be done for the entire octave band mid-frequency spectrum. The fan dBW ratings and silencer attenuation apply equally to in duct applications, with a silencer connected between the fan and the duct system.

Dynamic Insertion Loss

The silencer attenuation is defined as the “dynamic insertion loss”. The values quoted in the tables represent the difference between the sound power level of a fan and silencer combination (dBW) and that of the fan alone (dBW). The dynamic insertion losses shown are the attenuations recorded under ideal working conditions. The achieved attenuation will vary according to the air velocity and flow pattern in the airways. Noise regeneration can occur at higher velocities, especially in EP silencers.

Square / Rectangular Silencers

In highly noise sensitive areas, where the circular silencers cannot achieve the necessary attenuation levels, Elta Fans can design and build optional splitter silencers for greater effect.

SPIGOT SILENCER

Dynamic Insertion Loss

Spigot Ø100-500

Product Code	Length	Insertion Loss @ Octave band (Hz)							
		63	125	250	500	1K	2K	4K	8K
068-0100-JF1	300mm	-3	-4	-9	-17	-23	-26	-25	-14
068-0100-JF2	600mm	-5	-8	-15	-33	-39	-40	-36	-20
068-0100-JF3	900mm	-10	-13	-21	-40	-45	-40	-36	-24
068-0100-JF4	1200mm	-12	-15	-23	-42	-47	-42	-38	-26
068-0125-JF1	300mm	-3	-3	-8	-16	-21	-24	-22	-12
068-0125-JF2	600mm	-4	-8	-13	-30	-35	-35	-31	-15
068-0125-JF3	900mm	-9	-12	-18	-37	-41	-38	-34	-20
068-0125-JF4	1200mm	-11	-15	-21	-40	-46	-41	-36	-23
068-0150-JF1	300mm	-3	-3	-6	-14	-19	-23	-22	-11
068-0150-JF2	600mm	-4	-7	-12	-23	-30	-36	-31	-15
068-0150-JF3	900mm	-8	-9	-15	-31	-37	-37	-34	-18
068-0150-JF4	1200mm	-10	-14	-17	-34	-41	-40	-36	-20
068-0200-JF1	300mm	-2	-3	-6	-13	-17	-20	-18	-9
068-0200-JF2	600mm	-4	-6	-10	-20	-27	-32	-20	-11
068-0200-JF3	900mm	-7	-9	-14	-32	-39	-36	-26	-15
068-0200-JF4	1200mm	-10	-12	-17	-35	-41	-44	-28	-16
068-0250-JF1	300mm	-2	-3	-6	-12	-16	-19	-17	-8
068-0250-JF2	600mm	-3	-6	-10	-19	-25	-29	-18	-10
068-0250-JF3	900mm	-5	-8	-12	-24	-30	-30	-22	-14
068-0250-JF4	1200mm	-7	-10	-15	-31	-37	-38	-26	-15
068-0315-JF1	300mm	-1	-3	-6	-12	-15	-18	-16	-8
068-0315-JF2	600mm	-3	-5	-8	-16	-21	-22	-16	-14
068-0315-JF3	900mm	-4	-7	-10	-20	-31	-28	-17	-14
068-0315-JF4	1200mm	-6	-9	-14	-23	-32	-32	-18	-15
068-0400-JF1	300mm	-1	-2	-5	-11	-15	-16	-14	-8
068-0400-JF2	600mm	-2	-4	-7	-14	-17	-18	-14	-11
068-0400-JF3	900mm	-3	-6	-9	-18	-26	-23	-15	-12
068-0400-JF4	1200mm	-5	-8	-13	-22	-30	-27	-17	-12
068-0500-JF1	300mm	-1	-1	-3	-10	-14	-14	-11	-7
068-0500-JF2	600mm	-2	-4	-6	-14	-16	-16	-13	-11
068-0500-JF3	900mm	-3	-6	-8	-17	-24	-21	-15	-11
068-0500-JF4	1200mm	-4	-8	-12	-19	-28	-23	-16	-12

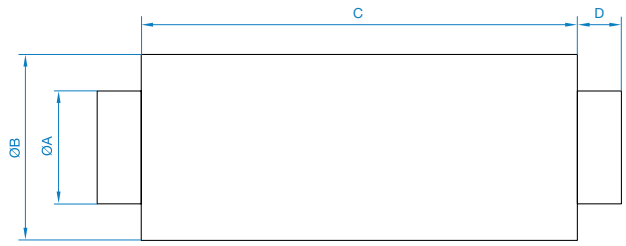
For sizes 560-710, please contact Elta Fans.

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.

SPIGOT SILENCER

Dimensional Data

Product Code	Fan Dia.	A	B	C	D	Weight kg
068-0100-JF1	100	98	204	300	40	2.5
068-0100-JF2	100	98	204	600	40	4.6
068-0100-JF3	100	98	204	900	40	6.7
068-0100-JF4	100	98	204	1200	40	8.7
068-0125-JF1	125	123	230	300	40	2.9
068-0125-JF2	125	123	230	600	40	5.4
068-0125-JF3	125	123	230	900	40	7.8
068-0125-JF4	125	123	230	900	40	10.2
068-0150-JF1	150	148	255	300	40	3.4
068-0150-JF2	150	148	255	600	40	6.1
068-0150-JF3	150	148	255	900	40	8.9
068-0150-JF4	150	148	255	1200	40	11.6
068-0200-JF1	200	198	305	300	40	4.2
068-0200-JF2	200	198	305	600	40	7.6
068-0200-JF3	200	198	305	900	40	11.0
068-0200-JF4	200	198	305	1200	40	14.5
068-0250-JF1	250	248	355	300	40	5.0
068-0250-JF2	250	248	355	600	40	9.1
068-0250-JF3	250	248	355	900	40	13.2
068-0250-JF4	250	248	355	1200	40	17.3
068-0315-JF1	315	313	420	300	40	6.1
068-0315-JF2	315	313	420	600	40	11.1
068-0315-JF3	315	313	420	900	40	16.1
068-0315-JF4	315	313	420	1200	40	21.0
068-0400-JF1	400	398	505	300	40	7.5
068-0400-JF2	400	398	505	600	40	13.6
068-0400-JF3	400	398	505	900	40	19.8
068-0400-JF4	400	398	505	1200	40	25.9



For 500 data, please contact Elta Fans.
Dimensions are in mm.

QUIETFLOW SQS

Notes

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.

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