



QUIETFLOW SQT

Product Brochure



QUIETFLOW SQT

Centrifugal Twin Box Fan

For full detailed information on the following: **Sound Data, Accessories & Wiring Data** and **Optimum Energy Efficiency Point** please visit eltaselect.com.

QUICK FACTS

- ✓ 7 standard sizes from 125mm to 500mm.
- ✓ Air volume flow rates up to 1.819 m³/s.
- ✓ Static pressures up to 1029 Pa.
- ✓ Suitable for operating temperatures up to +60°C.
- ✓ Available in **EC**.

CASING

The robust 1.2mm galvanised mild steel sheet casing, is treated internally with a Class O rated (BS 476 Parts 6 and 7) fire resistant acoustic foam lining with a fire resistant polymeric coating. The wrap around folded casing is specially manufactured using integral motor mounting plates to provide additional rigidity for the casings.

Each casing provides spigots to suit standard circular ducting. EPDM (Ethylene Propylene) rubber U shaped seals (being ozone and UV stable) are used to ensure a good seal back to the duct that is to be attached. A removable lid is provided as a standard feature to facilitate ease of maintenance and cleaning.

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 twin range of units have an EC 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.

Electrical connection shall be via an IP55 terminal box mounted on the side for easy customer connection.

QUALITY MANAGEMENT

Units are to be designed and manufactured with procedures as defined in BS EN ISO 9001:2008.

All SQT units are to be tested to ISO 5801:2007 (airside performance) and BS 848 Part 2:1985 (sound performance).

TYPICAL APPLICATIONS

- Toilets and Bathrooms
- Hotels
- Kitchens
- Residential
- Offices
- Libraries

ACCESSORIES

For full accessories & controls information please visit eltaselect.com



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QUIETFLOW SQT

Performance, SFP & Electrical Data



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

Product Code	Control Voltage	Airflow SFP	Airflow m³/s @ Static Pressure Pa.											Overall Efficiency %	Motor Electrical Data		dBA @ 3m			
			0	25	50	75	100	150	200	250	300	350	400		500	Peak Amps			Input kW	
SQT125-1ECL	10V	m³/s	0.123	0.121	0.118	0.115	0.112	0.106	0.100	0.092	0.084	0.075	0.065	0.037	24.3	1.21	0.151	Inlet	50	
		W/(L/s)	1.16	1.18	1.20	1.22	1.25	1.31	1.38	1.47	1.59	1.76	2.01	3.39				Outlet	52	
	8V	m³/s	0.114	0.111	0.107	0.104	0.101	0.093	0.086	0.077	0.068	0.057	0.046	0.019	24.6	0.94	0.108	Inlet	48	
		W/(L/s)	0.90	0.91	0.94	0.96	0.99	1.06	1.16	1.30	1.50	1.80	2.28	5.48				Outlet	48	
	5V	m³/s	0.067	0.063	0.059	0.053	0.046	0.030	0.014						20.4	0.30	0.034	Inlet	40	
		W/(L/s)	0.42	0.45	0.49	0.54	0.63	1.03	2.25									Outlet	38	
	2V	m³/s	0.024	0.007											6.6	0.08	0.005	Inlet	*20	
		W/(L/s)	0.21	0.71														Outlet	*20	
	SQT150-1ECL	10V	m³/s	0.146	0.143	0.140	0.137	0.133	0.125	0.116	0.107	0.098	0.089	0.079	0.057	28.2	1.17	0.134	Inlet	50
			W/(L/s)	0.91	0.93	0.94	0.96	0.99	1.05	1.12	1.22	1.35	1.49	1.68	2.31				Outlet	50
		8V	m³/s	0.134	0.129	0.125	0.121	0.116	0.107	0.098	0.089	0.079	0.069	0.058	0.033	28.5	0.93	0.106	Inlet	47
			W/(L/s)	0.73	0.76	0.78	0.81	0.84	0.92	1.01	1.12	1.27	1.47	1.77	3.18				Outlet	50
5V		m³/s	0.084	0.076	0.069	0.062	0.055	0.039	0.023	0.010					24.7	0.30	0.035	Inlet	38	
		W/(L/s)	0.33	0.37	0.42	0.47	0.53	0.76	1.34	3.18								Outlet	43	
2V		m³/s	0.028												5.5	0.08	0.005	Inlet	*20	
		W/(L/s)	0.16															Outlet	*20	
SQT200-1ECL		10V	m³/s	0.274	0.267	0.261	0.254	0.248	0.235	0.221	0.208	0.194	0.179	0.164	0.130	32.8	1.90	0.240	Inlet	54
			W/(L/s)	0.81	0.84	0.87	0.90	0.93	0.99	1.06	1.14	1.23	1.33	1.45	1.81				Outlet	54
		8V	m³/s	0.229	0.222	0.216	0.209	0.201	0.185	0.168	0.149	0.130	0.111	0.093	0.060	32.0	1.32	0.173	Inlet	50
			W/(L/s)	0.64	0.65	0.67	0.69	0.72	0.78	0.86	0.96	1.11	1.32	1.60	2.56				Outlet	51
	5V	m³/s	0.142	0.129	0.116	0.104	0.090	0.057	0.036	0.020					25.8	0.41	0.074	Inlet	40	
		W/(L/s)	0.34	0.34	0.36	0.40	0.48	0.87	1.49	2.66								Outlet	41	
	2V	m³/s	0.050	0.013											4.8	0.08	0.011	Inlet	*20	
		W/(L/s)	0.21	0.79														Outlet	*20	

A variable speed drive is integrated within the fan.

Data in accordance with ErP 1253/2014 of the European Parliament. Product category is NRVU. Measurement category used to determine energy efficiency: D.

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

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 SQT

Performance, SFP & Electrical Data



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

Product Code	Control Voltage	Airflow SFP	Airflow m³/s @ Static Pressure Pa.												Overall Efficiency %	Motor Electrical Data		dBA @ 3m		
			0	25	50	75	100	150	200	250	300	350	400	500		Peak Amps	Input kW			
SQT250-1ECL	10V	m³/s	0.327	0.318	0.307	0.295	0.281	0.251	0.218	0.187	0.156	0.126	0.096	0.048	29.8	1.89	0.223	Inlet	50	
		W/(L/s)	0.58	0.60	0.62	0.65	0.67	0.75	0.85	0.99	1.19	1.48	1.97	4.18				Outlet	50	
	8V	m³/s	0.269	0.256	0.242	0.227	0.210	0.173	0.135	0.100	0.070	0.045	0.024	30.8	1.08	0.126	Inlet	47		
		W/(L/s)	0.39	0.41	0.44	0.46	0.50	0.60	0.78	1.07	1.57	2.52	4.88				Outlet	48		
	5V	m³/s	0.168	0.147	0.119	0.088	0.059	0.015							26.7	0.31	0.035	Inlet	36	
		W/(L/s)	0.18	0.21	0.26	0.35	0.52	2.26										Outlet	35	
2V	m³/s	0.064												9.7	0.08	0.006	Inlet	*20		
	W/(L/s)	0.08															Outlet	*20		
SQT315-1ECL	10V	m³/s	0.625	0.614	0.602	0.590	0.577	0.550	0.521	0.489	0.453	0.411	0.362	0.220	42.0	1.96	0.428	Inlet	51	
		W/(L/s)	0.61	0.63	0.65	0.67	0.69	0.74	0.79	0.85	0.92	0.99	1.10	1.55				Outlet	51	
	8V	m³/s	0.493	0.480	0.465	0.450	0.434	0.397	0.352	0.294	0.207	0.038			41.5	1.04	0.217	Inlet	43	
		W/(L/s)	0.41	0.42	0.44	0.46	0.49	0.54	0.61	0.71	0.93	3.71						Outlet	43	
	5V	m³/s	0.296	0.272	0.243	0.207	0.152								32.7	0.32	0.061	Inlet	36	
		W/(L/s)	0.20	0.22	0.25	0.29	0.38											Outlet	32	
	2V	m³/s	0.097												4.8	0.11	0.015	Inlet	*20	
		W/(L/s)	0.16															Outlet	*20	
	SQT400-1ECL	10V	m³/s	1.074	1.055	1.037	1.019	1.001	0.965	0.930	0.894	0.858	0.821	0.783	0.702	46.9	4.25	0.914	Inlet	58
			W/(L/s)	0.80	0.82	0.83	0.85	0.87	0.90	0.94	0.98	1.02	1.07	1.12	1.25				Outlet	57
		8V	m³/s	0.844	0.819	0.795	0.772	0.751	0.709	0.668	0.626	0.582	0.535	0.481	0.317	46.4	2.33	0.491	Inlet	51
			W/(L/s)	0.54	0.56	0.58	0.60	0.61	0.65	0.70	0.75	0.81	0.88	0.98	1.41				Outlet	52
5V		m³/s	0.514	0.481	0.446	0.408	0.365	0.259	0.035						36.3	0.64	0.139	Inlet	40	
		W/(L/s)	0.24	0.27	0.29	0.32	0.36	0.49	2.70									Outlet	41	
2V		m³/s	0.172												21.1	0.20	0.034	Inlet	*20	
		W/(L/s)	0.04															Outlet	*20	
SQT500-1ECL		10V	m³/s	1.445	1.419	1.390	1.359	1.325	1.252	1.172	1.088	1.001	0.914	0.823	0.621	49.1	3.50	0.774	Inlet	51
			W/(L/s)	0.49	0.50	0.52	0.53	0.55	0.60	0.65	0.70	0.77	0.84	0.92	1.17				Outlet	51
		8V	m³/s	1.184	1.127	1.076	1.028	0.981	0.890	0.797	0.697	0.584	0.441	0.205		50.0	1.99	0.435	Inlet	45
			W/(L/s)	0.33	0.34	0.36	0.38	0.40	0.45	0.50	0.58	0.69	0.90	1.72					Outlet	47
	5V	m³/s	0.696	0.631	0.559	0.477	0.378								42.2	0.52	0.109	Inlet	32	
		W/(L/s)	0.14	0.16	0.19	0.22	0.28											Outlet	32	
	2V	m³/s	0.235												39.0	0.19	0.005	Inlet	*20	
		W/(L/s)	0.02															Outlet	*20	

A variable speed drive is integrated within the fan.

Data in accordance with ErP 1253/2014 of the European Parliament. Product category is NRVU. Measurement category used to determine energy efficiency: D.

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

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 SQT

Performance, SFP & Electrical Data



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

Product Code	Control Voltage	Airflow SFP	Airflow m³/s @ Static Pressure Pa.												Overall Efficiency %	Motor Electrical Data		dBA @ 3m	
			0	25	50	75	100	150	200	250	300	350	400	500		Peak Amps	Input kW		
SQT500-3ECL	10V	m³/s	1.819	1.797	1.774	1.751	1.727	1.677	1.625	1.570	1.512	1.453	1.392	1.265	51.8	2.29	1.482	Inlet	58
		W/(L/s)	0.76	0.77	0.79	0.80	0.82	0.85	0.88	0.92	0.97	1.01	1.06	1.17				Outlet	58
		Breakout																	56
	8V	m³/s	1.480	1.443	1.407	1.373	1.340	1.274	1.208	1.141	1.072	0.997	0.916	0.710	52.5	1.32	0.806	Inlet	51
		W/(L/s)	0.48	0.50	0.52	0.54	0.56	0.60	0.64	0.69	0.74	0.80	0.87	1.10				Outlet	52
		Breakout																	50
	5V	m³/s	0.875	0.827	0.775	0.719	0.656	0.505	0.292						47.1	0.47	0.192	Inlet	37
		W/(L/s)	0.20	0.22	0.24	0.26	0.29	0.37	0.58									Outlet	38
		Breakout																	36
	2V	m³/s	0.304												14.8	0.16	0.025	Inlet	*20
		W/(L/s)	0.08															Outlet	*20
		Breakout																	*20

DCV CONTROLS

Demand Control Ventilation (DCV) EC options available, refer to pages 228-229 for DCV information and page 144 for product information; to order add DCV to product code: SQT100-ECL with DCV order SQTDCV100-ECL.



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

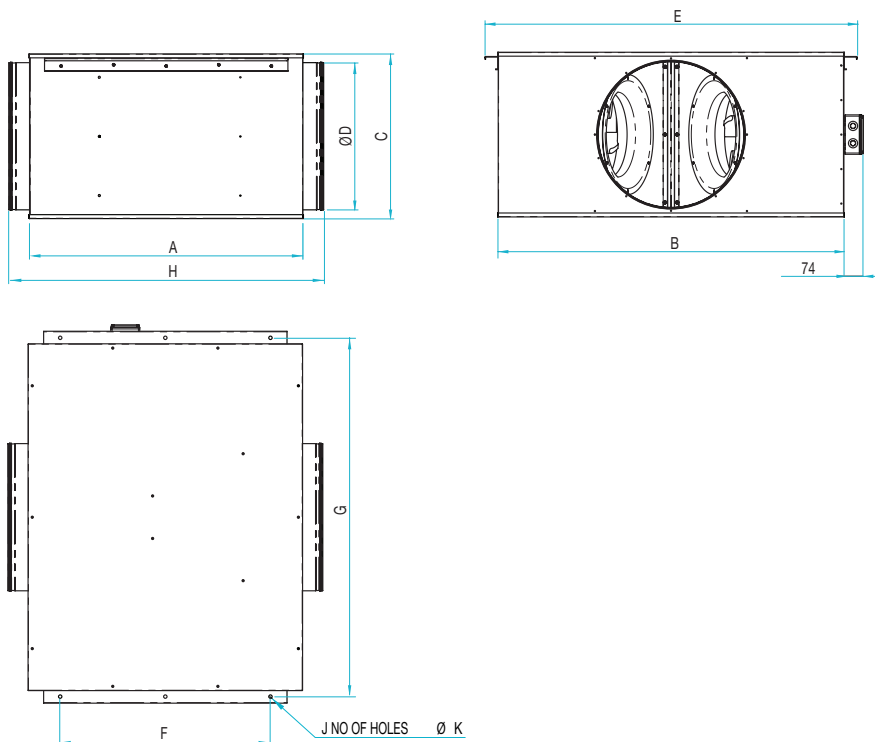
The overall A-weighted sound pressure level is at a distance of 3m with spherical free-field propagation. It is expressed in dB re-20µPa and is presented for comparative purposes only.

* At 2V the average spherical free-field sound pressure levels cannot be accurately measured above the background level in our conventional laboratory facilities. When correctly installed the fan will be inaudible (less than 20dBA).

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QUIETFLOW SQT

Dimensional Data



Product Code	A	B	C	D	E	F	G	H	J	K	Weight kg
SQT125	570	555	261	125	575	537	580	640	4	8	28
SQT150				150							
SQT200	602	650	303	200	700	569	680	679			
SQT250			333	250			719				
SQT315	749	864	401	315	914	700	894	866			
SQT400	846	1018	473	400	1118			1068		13	86
SQT500	985	1253	602	500	1353	800	1303	1141	6	124	

Dimensions are in mm.

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QUIETFLOW SQT

Accessories



Product Code	Electronic Controller	Flexible Connections (each)	Clamps (each)	AV Mounts (set of 4)	Panel Filter	Electric Heater Battery	ACOP Standard
SQT100-1EC	149-POT-10	018-0100-FLEX	018-0100-CLAMP	062-SEL03	018-0100-FILT-P	018-0100-HEAT-1	149-ACO14E
SQT125-1EC	149-POT-10	018-0125-FLEX	018-125-CLAMP	062-SEL03	018-0125-FILT-P	018-0125-HEAT-1	149-ACO14E
SQT150-1EC	149-POT-10	018-0150-FLEX	018-150-CLAMP	062-SEL03	018-0150-FILT-P	018-0150-HEAT-1	149-ACO14E
SQT200-1EC	149-POT-10	018-0200-FLEX	018-200-CLAMP	062-SEL03	018-0200-FILT-P	018-0200-HEAT-1	149-ACO14E
SQT250-1EC	149-POT-10	018-0250-FLEX	018-250-CLAMP	062-SEL03	018-0250-FILT-P	018-0250-HEAT-1	149-ACO14E
SQT315-1EC	149-POT-10	018-0315-FLEX	018-315-CLAMP	062-SEL03	018-0315-FILT-P	018-0315-HEA1/3	149-ACO14E
SQT400-1EC	149-POT-10	018-0400-FLEX	018-400-CLAMP	062-SEL04	018-0400-FILT-P	018-0400-HEA1/3	149-ACO14E
SQT500-1EC	149-POT-10	018-0500-FLEX	018-500-CLAMP	062-SEL05	018-0500-FILT-P	018-0500-HEAT-3 018-0500-HEAT-4	149-ACO14E
SQT500-3EC	149-POT-10	018-0500-FLEX	018-500-CLAMP	062-SEL05	018-0500-FILT-P	018-0500-HEAT-3 018-0500-HEAT-4	149-ACO14E

Product Code	Silencer 300mm Long	Silencer 600mm Long	Silencer 900mm Long	Silencer 1200mm Long	Wiring Diagram
SQT100-1EC	068-0100-JF1	068-0100-JF2	068-0100-JF3	068-0100-JF4	152-000236
SQT125-1EC	068-0125-JF1	068-0125-JF2	068-0125-JF3	068-0125-JF4	152-000236
SQT150-1EC	068-0150-JF1	068-0150-JF2	068-0150-JF3	068-0150-JF4	152-000236
SQT200-1EC	068-0200-JF1	068-0200-JF2	068-0200-JF3	068-0200-JF4	152-000236
SQT250-1EC	068-0250-JF1	068-0250-JF2	068-0250-JF3	068-0250-JF4	152-000236
SQT315-1EC	068-0315-JF1	068-0315-JF2	068-0315-JF3	068-0315-JF4	152-000244
SQT400-1EC	068-0400-JF1	068-0400-JF2	068-0400-JF3	068-0400-JF4	152-000244
SQT500-1EC	Please enquire				152-000244
SQT500-3EC	Please enquire				152-2MOEA03K3

DCV Accessories	Sensors
Can be used with all DCV products.	149-DCV-CO2
	149-DCV-DPT150
	149-DCV-H1
	149-DCV-HRT
	149-DCV-PIR
	149-DCV-TRT

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QUIETFLOW SQT DCV

Centrifugal Box Fan



OVERVIEW

The Quietflow SQT DCV...ECL incorporates the BAT (Best Available Technology) Vpro/ZAvBlue backward curved impeller, with three dimensional profiled blades powered by the ultra reliable Ziehl-Abegg EC (electronically commutated) external rotor motor. The range of acoustically treated in-line centrifugal twin fans are suitable for Demand Control Ventilation via matching sensors.



Refer to Quietflow SQT on page 137-143 for Performance & Electrical Data.

For DCV information refer to pages 228-229.

QUICK FACTS

- ✓ 7 standard sizes from 125mm to 500mm.
- ✓ Air volume flow rates up to 1.819 m³/s.
- ✓ Static pressures up to 1029 Pa.
- ✓ Suitable for operating temperatures up to +60°C.
- ✓ Available in **EC**.

Applied Technology

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