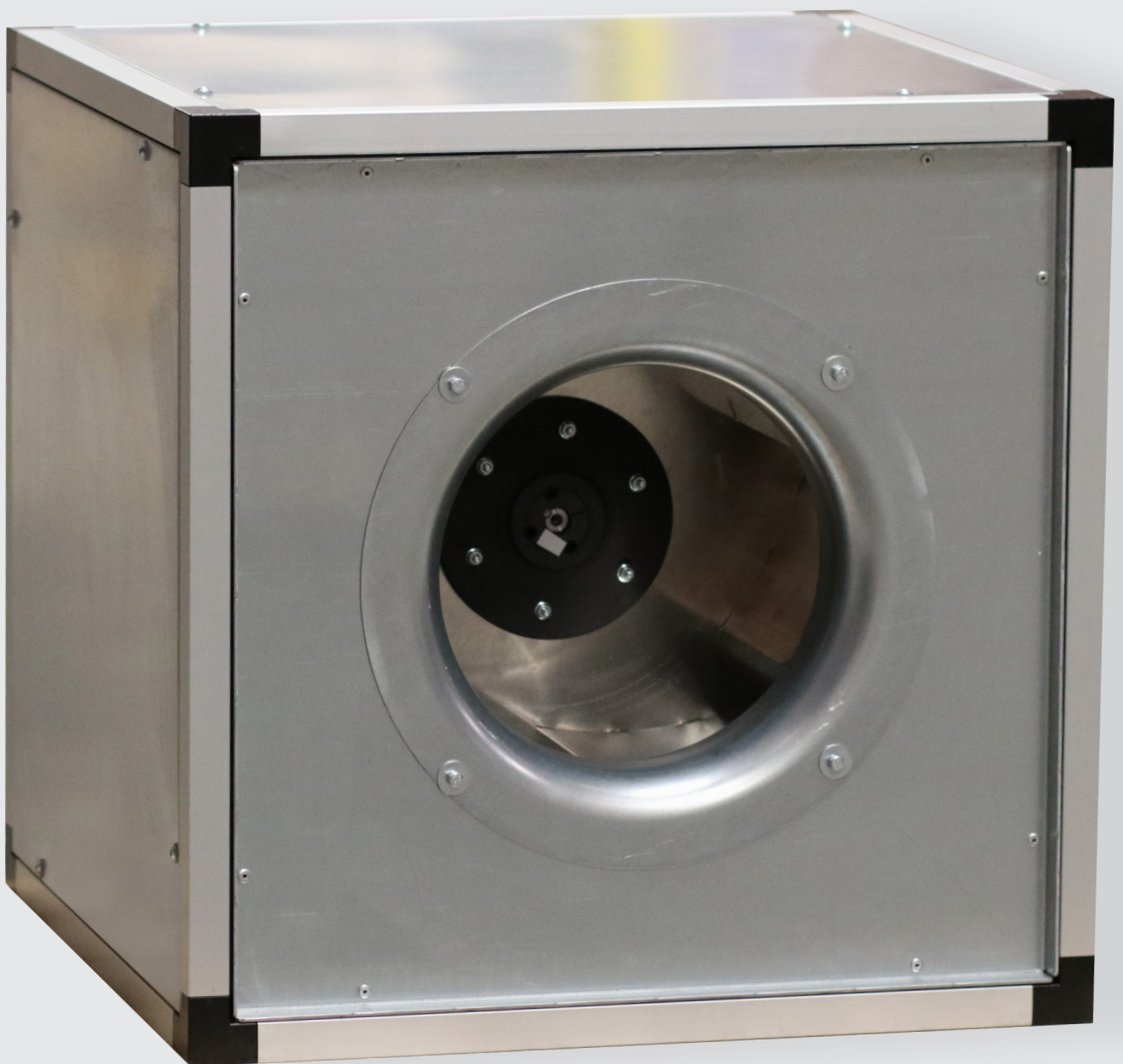


**QUBE
SQU**

Centrifugal Box Fan

ELTA



Product Overview

- Box sizes of 500, 670, 820 and 1020mm
- Interchangeable double skinned panels
- Painted Aluminium Corners
- Straight through airflow or 90° Outlet
- Suitable for 50°C (40°C 3Ph EC) Ambient Airstream
- Available in **AC** & **EC**

A multi-discharge insulated double skinned fan unit incorporating a high performance backward curved impeller. Available with energy efficient IE6 EC motor or AC motor to (EU) 2019/1781.

Intelligent Design

Designed to maximise performance and reduce the use of energy having moveable panels allowing the outlet position to be altered on site to suit installation.

Low Noise

Unit is constructed from double insulated panels filled with 25mm fibreglass acoustic insulation reducing radiated noise.

Controllability

Suitable for speed control and integration into a building management system dependant on model.

Warranty

Each SQU has a 24-month warranty.

Construction

Corrosion resistant aluminium frame with painted aluminium corners for strength and durability

Casing

The casing shall be constructed from self-supporting corrosion-resistant extruded aluminium section assembled with Aluminium corners and 25mm thick double skinned removable panels, manufactured from pre-galvanised steel, in-filled with a non-flammable mineral wool.

Motor

The IEC frame Motor shall be either AC Three phase multi-voltage IP55 TEFC Foot / Flange mounted, wound for either (Delta) 230V/3Ph/50Hz or (Star) at 400V/3Ph/50Hz connection, suitable for speed control when used with a Variable Frequency Drive or EC single or three phase permanent magnet IE6 totally enclosed to IP55 with centralised control circuit for speed adjustment and Electronic protection against overload, over temperature and locked-rotor suitable for 50 and 60Hz supply.

Impeller

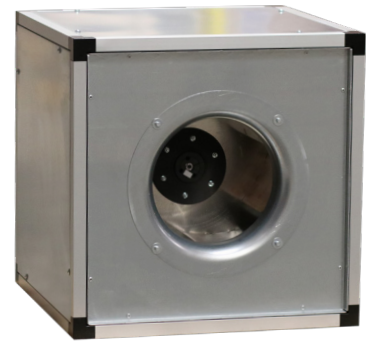
Impeller shall be a high efficiency backward curved EN-AW 5754 aluminium with a non-overloading power characteristic, dynamically balanced to G6.3 according to ISO1940 part 1.

Control

Units shall be suitable for use with Variable frequency drive or connection to a remote DC voltage: 2 to 10 VDC, DC current: 4 to 20 mA DC ~ PWM: 10 to 95% ~or potentiometer for speed control, dependent on model.

Typical Applications

- Kitchens
- Restaurants
- Schools
- Colleges
- Shops
- Sports Halls
- Shower Rooms
- Factories
- Industrial Units
- Warehousing



Contents

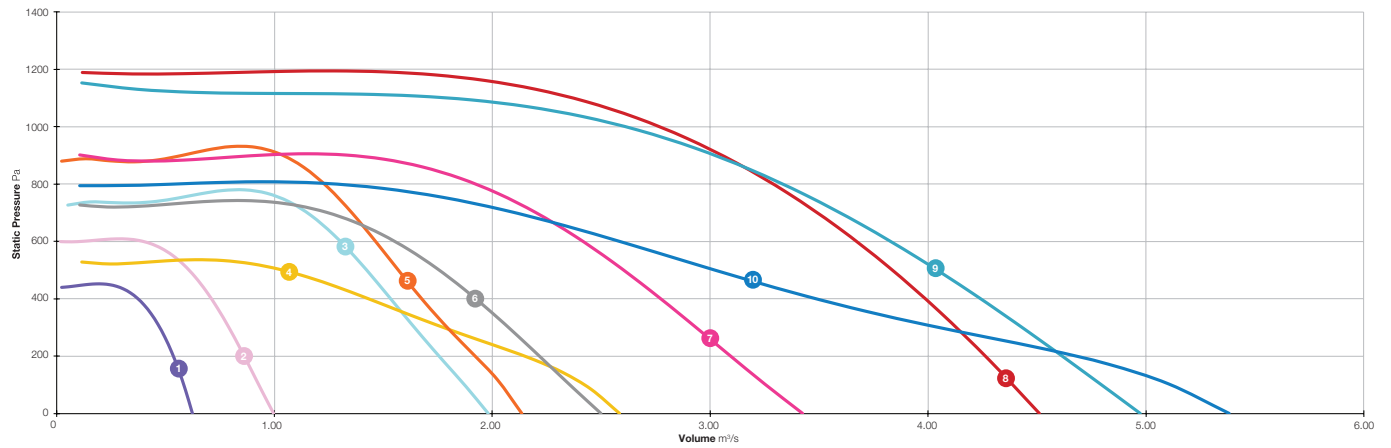
Page	Information
3	Performance Range Curves
5	Performance, SFP & Electrical Data
10	Sound Data
17	Dimensional Data
18	Accessories

Product Coding

Code	Reference
SQU	Product Range
50	Box size 50/67/82/102cm
/	
315	Impeller Diameter 315/350/400....mm
-	
4	Number of Poles 2/4/6 or EC Motor Type
-	
3	Voltage Supply (Single Phase - 1, Three Phase -3)
	The SQU is provided as 90 deg configuration, easy to adjust panels allow straight through configuration
e.g.	SQU50/315-EC-1

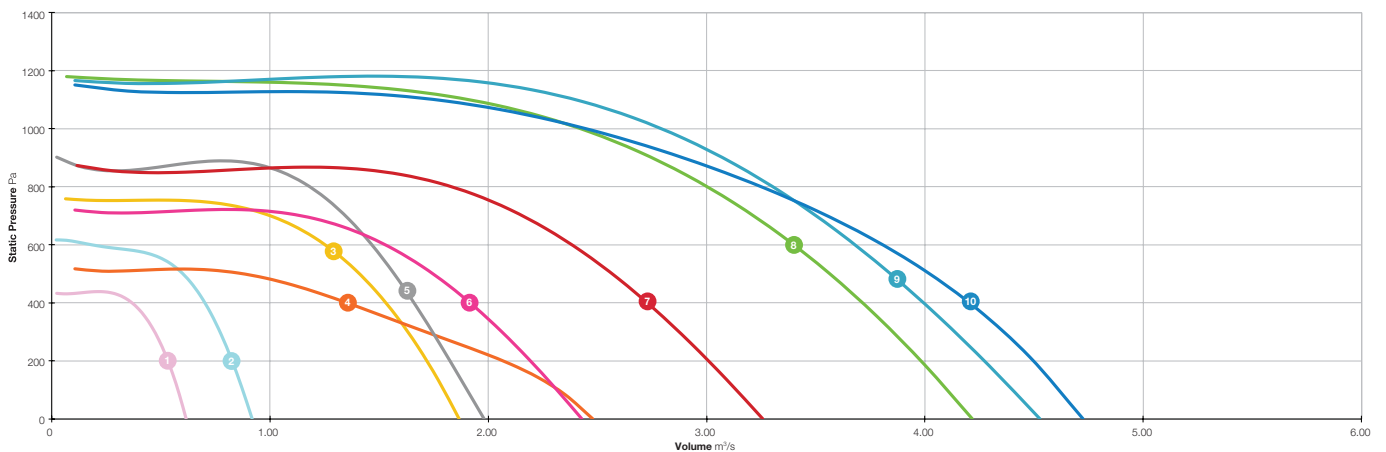
Performance Range Curves

90 Degree Configuration



- | | | |
|------------------|------------------|--------------------|
| 1 SQU50/315-EC-1 | 5 SQU67/450-EC-3 | 9 SQU102/630B-EC-3 |
| 2 SQU50/350-EC-1 | 6 SQU82/500-EC-3 | 10 SQU102/710-EC-3 |
| 3 SQU67/450-EC-1 | 7 SQU82/560-EC-3 | |
| 4 SQU82/560-EC-1 | 8 SQU82/630-EC-3 | |

Straight Configuration

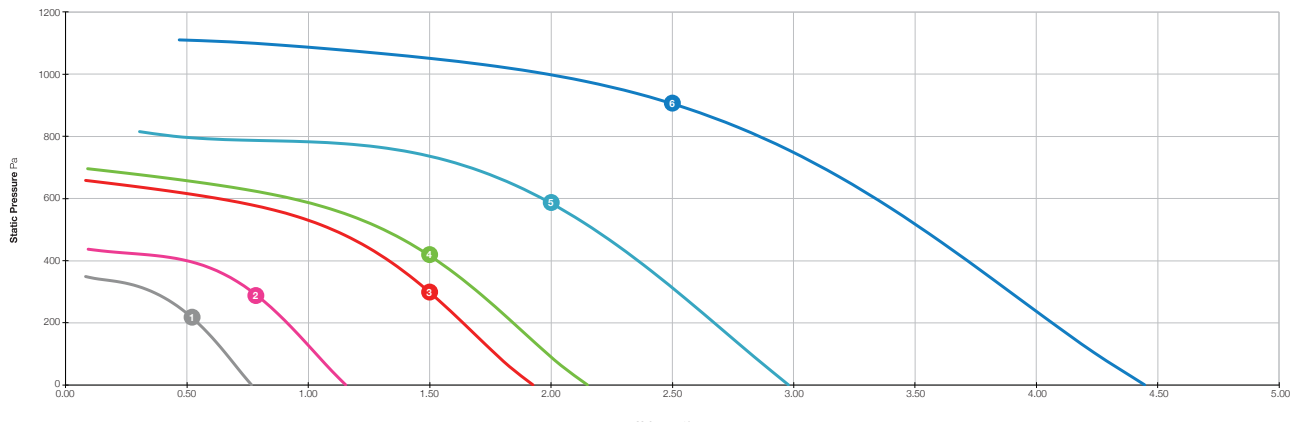


- | | | |
|------------------|------------------|---------------------|
| 1 SQU50/315-EC-1 | 5 SQU67/450-EC-3 | 9 SQU102/630-EC-3 |
| 2 SQU50/350-EC-1 | 6 SQU82/500-EC-3 | 10 SQU102/630B-EC-3 |
| 3 SQU67/450-EC-1 | 7 SQU82/560-EC-3 | |
| 4 SQU82/560-EC-1 | 8 SQU82/630-EC-3 | |

The Qube SQU is provided as 90. Easy to adjust panels allow straight to be achieved on-site.

Performance Range Curves

90 Degree / Straight Configuration



- 1 SQU50/350-4-3
- 2 SQU67/400-4-3
- 3 SQU67/500-4-3
- 4 SQU82/500-4-3
- 5 SQU82/560-4-3
- 6 SQU102/630-4-3

Performance, SFP & Electrical Data

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

90 Degree Configuration

Product Code	Control Voltage	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	Over-all Eff%	FMEG N	Input kW	Peak Amps			
SQU50/315-EC-1	10V	1815	m³ / s	0.624	0.614	0.605	0.595	0.584	0.561	0.536	0.507	0.474	0.432	0.374	-	61.0	-	0.281	2.09	Inlet	54	
			W / (L/s)	0.27	0.29	0.30	0.32	0.34	0.39	0.44	0.50	0.57	0.65	0.75	-					Outlet	56	
	7.5V	1310	m³ / s	0.461	0.438	0.419	0.400	0.382	0.341	0.284	-	-	-	-	-	57.8		0.114	0.91	Inlet	46	
			W / (L/s)	0.15	0.18	0.20	0.23	0.26	0.32	0.40	-	-	-	-	-					Outlet	48	
	5V	805	m³ / s	0.280	0.250	0.218	0.175	-	-	-	-	-	-	-	-	-		44.4	0.035	0.34	Inlet	34
			W / (L/s)	0.09	0.12	0.15	0.20	-	-	-	-	-	-	-	-	Breakout					36	
SQU50/350-EC-1	10V	1810	m³ / s	0.996	0.978	0.961	0.944	0.928	0.894	0.861	0.826	0.790	0.752	0.710	0.607	58.6	-	0.572	3.96	Inlet	57	
			W / (L/s)	0.42	0.43	0.45	0.46	0.48	0.52	0.57	0.62	0.67	0.73	0.79	0.94					Breakout	48	
	7.5V	1310	m³ / s	0.712	0.684	0.661	0.639	0.617	0.573	0.525	0.464	0.354	-	-	-	58.2		0.227	1.69	Inlet	49	
			W / (L/s)	0.24	0.25	0.27	0.29	0.32	0.36	0.42	0.49	0.61	-	-	-					Outlet	51	
	5V	805	m³ / s	0.441	0.396	0.358	0.317	0.263	-	-	-	-	-	-	-	-		48.2	0.064	0.54	Inlet	37
			W / (L/s)	0.12	0.14	0.16	0.20	0.24	-	-	-	-	-	-	-	Outlet					39	
SQU67/450-EC-1	10V	1655	m³ / s	1.981	1.955	1.929	1.901	1.872	1.814	1.755	1.698	1.643	1.588	1.534	1.424	67.7	-	1.289	8.28	Inlet	60	
			W / (L/s)	0.42	0.43	0.45	0.46	0.48	0.53	0.57	0.62	0.67	0.71	0.76	0.86					Breakout	63	
	7.5V	1175	m³ / s	1.457	1.378	1.325	1.280	1.238	1.160	1.082	1.001	0.908	0.789	-	-	67.8		0.455	3.13	Inlet	50	
			W / (L/s)	0.21	0.23	0.25	0.28	0.30	0.34	0.39	0.44	0.50	0.58	-	-					Outlet	54	
	5V	730	m³ / s	0.880	0.797	0.734	0.674	0.610	-	-	-	-	-	-	-	-		61.8	0.124	0.94	Inlet	40
			W / (L/s)	0.10	0.12	0.14	0.17	0.20	-	-	-	-	-	-	-	Breakout					43	
SQU82/560-EC-1	10V	1105	m³ / s	2.584	2.550	2.512	2.470	2.422	2.304	2.148	1.962	1.775	1.601	1.432	1.039	59.3	-	1.050	7.29	Inlet	60	
			W / (L/s)	0.29	0.31	0.34	0.36	0.39	0.44	0.49	0.54	0.59	0.66	0.73	1.00					Breakout	64	
	7.5V	830	m³ / s	1.869	1.791	1.716	1.642	1.567	1.410	1.226	0.961	-	-	-	-	59.9		0.464	3.38	Inlet	52	
			W / (L/s)	0.15	0.18	0.21	0.23	0.26	0.32	0.38	0.47	-	-	-	-					Outlet	56	
	5V	515	m³ / s	1.167	1.045	0.919	0.771	0.545	-	-	-	-	-	-	-	-		54.5	0.125	1.04	Inlet	40
			W / (L/s)	0.07	0.10	0.12	0.16	0.23	-	-	-	-	-	-	-	Breakout					44	

The Qube SQU is provided as 90. Easy to adjust panels allow straight to be achieved on-site.

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

ErP data in accordance with Regulation (EU) 327/2011. Measurement category used to determine energy efficiency: A.

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.

Performance, SFP & Electrical Data

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

Product Code	Control Voltage	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	Over-all Eff%	FMEG N	Input kW	Peak Amps		
SQU50/315-EC-1	10V	1815	m³ / s	0.616	0.607	0.598	0.588	0.578	0.556	0.532	0.504	0.471	0.429	0.367	61.4	-	0.277	2.71	Inlet	54	
			W / (L/s)	0.26	0.28	0.30	0.33	0.35	0.40	0.45	0.50	0.57	0.64	0.75					-	Outlet	56
	7.5V	1310	m³ / s	0.436	0.424	0.410	0.396	0.379	0.339	0.277	-	-	-	-	57.1		0.112	0.93	Inlet	46	
			W / (L/s)	0.16	0.18	0.20	0.23	0.25	0.32	0.41	-	-	-	-					-	Outlet	48
	5V	805	m³ / s	0.269	0.247	0.217	0.168	-	-	-	-	-	-	-	-		43.5	0.035	0.34	Inlet	34
			W / (L/s)	0.09	0.12	0.15	0.21	-	-	-	-	-	-	-	-					Outlet	36
SQU50/350-EC-1	10V	1810	m³ / s	0.919	0.908	0.897	0.886	0.875	0.852	0.827	0.800	0.771	0.739	0.702	0.602	57.1	-	0.572	4.19	Inlet	57
			W / (L/s)	0.42	0.44	0.47	0.49	0.52	0.56	0.61	0.66	0.71	0.77	0.82	0.97					Outlet	59
	7.5V	1310	m³ / s	0.663	0.649	0.633	0.617	0.599	0.560	0.511	0.444	0.288	-	-	-	53.9		0.233	1.71	Inlet	49
			W / (L/s)	0.24	0.27	0.29	0.32	0.34	0.39	0.45	0.53	0.73	-	-	-					Outlet	51
	5V	805	m³ / s	0.406	0.379	0.349	0.310	0.250	-	-	-	-	-	-	-	44.7		0.066	0.54	Inlet	37
			W / (L/s)	0.13	0.15	0.18	0.21	0.26	-	-	-	-	-	-	-					Outlet	39
SQU67/450-EC-1	10V	1655	m³ / s	1.866	1.849	1.832	1.814	1.796	1.758	1.719	1.676	1.631	1.583	1.531	1.410	62.0	-	1.313	8.30	Inlet	60
			W / (L/s)	0.46	0.47	0.49	0.50	0.52	0.56	0.60	0.64	0.69	0.74	0.79	0.91					Outlet	63
	7.5V	1175	m³ / s	1.328	1.300	1.272	1.243	1.213	1.150	1.079	0.998	0.897	0.739	-	-	63.7		0.472	3.27	Inlet	52
			W / (L/s)	0.24	0.25	0.27	0.29	0.31	0.35	0.40	0.46	0.53	0.62	-	-					Outlet	54
	5V	730	m³ / s	0.831	0.781	0.729	0.672	0.607	-	-	-	-	-	-	-	58.7		0.127	0.99	Inlet	40
			W / (L/s)	0.11	0.13	0.15	0.18	0.21	-	-	-	-	-	-	-					Outlet	43
SQU82/560-EC-1	10V	1115	m³ / s	2.477	2.444	2.407	2.365	2.319	2.208	2.065	1.892	1.710	1.530	1.350	0.872	56.5	-	1.040	7.14	Inlet	60
			W / (L/s)	0.32	0.35	0.37	0.39	0.41	0.46	0.50	0.55	0.61	0.68	0.77	1.17					Outlet	64
	7.5V	830	m³ / s	1.790	1.728	1.665	1.601	1.535	1.390	1.211	0.900	-	-	-	-	57.7		0.473	3.34	Inlet	52
			W / (L/s)	0.17	0.20	0.22	0.25	0.27	0.33	0.39	0.51	-	-	-	-					Outlet	56
	5V	510	m³ / s	1.097	0.993	0.879	0.731	-	-	-	-	-	-	-	-	55.1		0.115	0.94	Inlet	40
			W / (L/s)	0.07	0.10	0.13	0.16	-	-	-	-	-	-	-	-					Outlet	44
																		Breakout	32		

The Qube SQU is provided as 90. Easy to adjust panels allow straight to be achieved on-site.

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

ErP data in accordance with Regulation (EU) 327/2011. Measurement category used to determine energy efficiency: A.

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.

Performance, SFP & Electrical Data

Three Phase 380V to 480V / 50Hz or 60Hz
90 Degree Configuration

Product Code	Control Voltage	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%	FMEG N	Input kW	Peak Amps			
SQU67/450-EC-3	10V	1805	m³ / s	2.135	2.115	2.093	2.069	2.043	1.985	1.921	1.856	1.793	1.733	1.676	1.569	65.4	-	1.617	3.74	Inlet	62	
			W / (L/s)	0.52	0.53	0.54	0.56	0.57	0.61	0.66	0.71	0.76	0.81	0.86	0.97					Outlet	65	
	7.5V	1290	m³ / s	1.528	1.479	1.436	1.396	1.358	1.286	1.215	1.142	1.065	0.980	0.878	-	65.3		0.594	1.65	Inlet	54	
			W / (L/s)	0.27	0.29	0.31	0.33	0.35	0.39	0.44	0.48	0.54	0.60	0.68	-					Outlet	57	
	5V	790	m³ / s	0.922	0.861	0.803	0.746	0.684	0.522	-	-	-	-	-	-	58.5		0.154	0.51	Inlet	42	
			W / (L/s)	0.12	0.14	0.16	0.18	0.21	0.30	-	-	-	-	-	-					Outlet	45	
SQU82/500-EC-3	10V	1500	m³ / s	2.499	2.462	2.426	2.391	2.356	2.286	2.216	2.146	2.074	2.001	1.924	1.756	62.6	-	1.602	2.59	Inlet	63	
			W / (L/s)	0.38	0.40	0.42	0.45	0.47	0.51	0.56	0.61	0.66	0.71	0.77	0.89					Outlet	65	
	7.5V	1115	m³ / s	1.877	1.821	1.768	1.718	1.669	1.571	1.471	1.364	1.243	1.089	0.794	-	63.6		0.662	1.29	Inlet	54	
			W / (L/s)	0.22	0.25	0.27	0.30	0.32	0.37	0.42	0.47	0.53	0.61	0.78	-					Outlet	58	
	5V	695	m³ / s	1.174	1.084	1.004	0.924	0.837	0.569	-	-	-	-	-	-	54.7		0.192	0.52	Inlet	43	
			W / (L/s)	0.11	0.14	0.17	0.19	0.22	0.33	-	-	-	-	-	-					Outlet	46	
SQU82/560-EC-3	10V	1495	m³ / s	3.425	3.381	3.338	3.296	3.255	3.174	3.094	3.015	2.935	2.855	2.774	2.603	60.7	-	2.713	4.19	Inlet	66	
			W / (L/s)	0.48	0.50	0.53	0.55	0.58	0.63	0.68	0.73	0.78	0.83	0.88	0.99					Outlet	70	
	7.5V	1110	m³ / s	2.540	2.481	2.425	2.370	2.316	2.209	2.101	1.989	1.870	1.737	1.581	-	57.7		1.099	1.89	Inlet	59	
			W / (L/s)	0.27	0.29	0.32	0.35	0.37	0.42	0.47	0.52	0.57	0.63	0.70	-					Outlet	63	
	5V	700	m³ / s	1.595	1.502	1.413	1.325	1.233	1.012	-	-	-	-	-	-	57.3		0.299	0.70	Inlet	48	
			W / (L/s)	0.12	0.15	0.18	0.20	0.23	0.30	-	-	-	-	-	-					Outlet	51	
SQU82/630-EC-3	10V	1500	m³ / s	4.510	4.480	4.450	4.420	4.389	4.326	4.262	4.196	4.128	4.058	3.986	3.835	58.7	-	4.891	7.23	Inlet	71	
			W / (L/s)	0.71	0.73	0.75	0.78	0.80	0.85	0.90	0.94	0.99	1.04	1.09	1.18					Outlet	75	
	7.5V	1115	m³ / s	3.350	3.310	3.269	3.227	3.184	3.095	3.000	2.900	2.792	2.675	2.545	2.231	59.2		2.011	3.17	Inlet	64	
			W / (L/s)	0.40	0.42	0.44	0.47	0.49	0.53	0.58	0.63	0.67	0.73	0.78	0.91					Outlet	68	
	5V	700	m³ / s	2.088	2.020	1.947	1.869	1.785	1.591	1.331	0.710	-	-	-	-	56.3		0.522	1.08	Inlet	53	
			W / (L/s)	0.17	0.20	0.22	0.24	0.27	0.32	0.39	0.61	-	-	-	-					Outlet	57	
SQU102/630B-EC-3	10V	1400	m³ / s	4.972	4.928	4.883	4.839	4.794	4.705	4.614	4.523	4.431	4.337	4.240	4.041	65.3	-	4.344	6.25	Inlet	71	
			W / (L/s)	0.48	0.50	0.52	0.54	0.56	0.60	0.65	0.69	0.73	0.78	0.83	0.93					Outlet	74	
	7.5V	1045	m³ / s	3.766	3.683	3.606	3.532	3.461	3.324	3.190	3.056	2.920	2.777	2.625	2.263	64.2		1.763	2.82	Inlet	64	
			W / (L/s)	0.27	0.30	0.32	0.35	0.37	0.42	0.47	0.51	0.56	0.60	0.66	0.78					Outlet	67	
	5V	660	m³ / s	2.386	2.240	2.119	2.007	1.897	1.667	1.378	0.152	-	-	-	-	64.6		0.474	1.02	Inlet	53	
			W / (L/s)	0.12	0.15	0.18	0.20	0.22	0.27	0.34	1.81	-	-	-	-					Outlet	56	
																			Breakout	43		

The Qube SQU is provided as 90. Easy to adjust panels allow straight to be achieved on-site.

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

ErP data in accordance with Regulation (EU) 327/2011. Measurement category used to determine energy efficiency: A.

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.

Performance, SFP & Electrical Data

Three Phase 380V to 480V / 50Hz or 60Hz
Straight Configuration

Product Code	Control Voltage	Speed r/min	Airflow SFP	Airflow m³/s@ Static Pressure Pa												At Best Efficiency Point		Electrical Data Peak Amps	dBA @3m		
				0	25	50	75	100	150	200	250	300	350	400	500	Overall Eff%	FMEG N				Input kW
SQU67/450-EC-3	10V	1805	m³ / s	1.980	1.961	1.941	1.922	1.902	1.863	1.824	1.784	1.744	1.702	1.659	1.569	62.6	-	1.638	3.76	Inlet	62
			W / (L/s)	0.55	0.57	0.58	0.60	0.61	0.65	0.69	0.73	0.77	0.82	0.86	0.96					Outlet	65
	7.5V	1290	m³ / s	1.420	1.389	1.360	1.332	1.304	1.248	1.191	1.131	1.064	0.987	0.886	-	64.4		0.608	1.72	Breakout	52
			W / (L/s)	0.28	0.30	0.32	0.34	0.36	0.41	0.45	0.50	0.55	0.61	0.69	-					Inlet	54
	5V	790	m³ / s	0.863	0.823	0.779	0.731	0.677	0.518	-	-	-	-	-	-	58.2		0.154	0.49	Outlet	45
			W / (L/s)	0.13	0.14	0.16	0.19	0.22	0.30	-	-	-	-	-	-					Breakout	33
SQU82/500-EC-3	10V	1500	m³ / s	2.429	2.401	2.372	2.343	2.314	2.254	2.193	2.129	2.062	1.991	1.916	1.746	61.3	-	1.605	2.53	Inlet	61
			W / (L/s)	0.40	0.42	0.44	0.46	0.49	0.53	0.58	0.62	0.67	0.72	0.78	0.90					Outlet	65
	7.5V	1115	m³ / s	1.804	1.766	1.727	1.687	1.646	1.559	1.465	1.358	1.231	1.059	-	-	61.3		0.673	1.33	Breakout	52
			W / (L/s)	0.23	0.26	0.28	0.31	0.33	0.38	0.43	0.48	0.55	0.63	-	-					Inlet	54
	5V	695	m³ / s	1.138	1.066	0.993	0.915	0.826	0.497	-	-	-	-	-	-	52.8		0.192	0.52	Outlet	58
			W / (L/s)	0.12	0.14	0.17	0.20	0.23	0.37	-	-	-	-	-	-					Breakout	45
SQU82/560-EC-3	10V	1500	m³ / s	3.256	3.226	3.196	3.165	3.134	3.072	3.007	2.941	2.872	2.801	2.727	2.566	58.0	-	2.755	4.25	Inlet	66
			W / (L/s)	0.53	0.55	0.57	0.60	0.62	0.66	0.71	0.76	0.81	0.86	0.91	1.02					Outlet	70
	7.5V	1110	m³ / s	2.409	2.370	2.330	2.288	2.246	2.156	2.060	1.954	1.835	1.694	1.516	-	58.8		1.118	1.95	Breakout	58
			W / (L/s)	0.30	0.32	0.34	0.37	0.39	0.44	0.49	0.54	0.60	0.66	0.74	-					Inlet	59
	5V	695	m³ / s	1.513	1.441	1.367	1.289	1.203	0.980	-	-	-	-	-	-	54.4		0.304	0.74	Outlet	63
			W / (L/s)	0.14	0.16	0.19	0.21	0.24	0.31	-	-	-	-	-	-					Breakout	51
SQU82/630-EC-3	10V	1500	m³ / s	4.217	4.189	4.161	4.132	4.103	4.043	3.982	3.919	3.85	3.785	3.715	3.565	53.7	-	4.770	7.11	Inlet	71
			W / (L/s)	0.80	0.83	0.85	0.88	0.90	0.95	1.00	1.05	1.09	1.14	1.19	1.29					Outlet	75
	7.5V	1120	m³ / s	3.141	3.102	3.061	3.020	2.978	2.890	2.797	2.698	2.591	2.475	2.345	2.020	54.3		1.980	3.06	Breakout	64
			W / (L/s)	0.46	0.48	0.50	0.52	0.54	0.59	0.63	0.68	0.73	0.79	0.84	0.99					Inlet	64
	5V	700	m³ / s	1.960	1.890	1.817	1.740	1.656	1.463	1.193	0.162	-	-	-	-	51.4		0.515	1.07	Outlet	68
			W / (L/s)	0.20	0.22	0.24	0.27	0.29	0.35	0.43	2.03	-	-	-	-					Breakout	57
SQU102/630B-EC-3	10V	1400	m³ / s	4.723	4.697	4.671	4.643	4.616	4.557	4.496	4.430	4.359	4.284	4.202	4.020	63.3	-	4.305	6.31	Inlet	71
			W / (L/s)	0.52	0.54	0.56	0.58	0.60	0.64	0.68	0.72	0.76	0.81	0.85	0.96					Outlet	74
	7.5V	1045	m³ / s	3.524	3.487	3.449	3.409	3.368	3.279	3.182	3.073	2.950	2.810	2.645	2.200	64.6		1.834	2.86	Breakout	61
			W / (L/s)	0.30	0.32	0.34	0.36	0.38	0.42	0.46	0.51	0.56	0.62	0.68	0.83					Inlet	64
	5V	655	m³ / s	2.213	2.143	2.069	1.987	1.897	1.678	1.356	0.394	-	-	-	-	62.2		0.487	1.02	Outlet	53
			W / (L/s)	0.14	0.16	0.18	0.20	0.23	0.28	0.36	0.78	-	-	-	-					Breakout	43

The Qube SQU is provided as 90. Easy to adjust panels allow straight to be achieved on-site.

Data provided is at standard air density of 1.2 kg/m³.
ErP data in accordance with Regulation (EU) 327/2011. Measurement category used to determine energy efficiency: A.
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.

Performance, SFP & Electrical Data

Three Phase 380V to 415V / 50Hz
90 Degree / Straight Configuration

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	Δ / Y		
SQU50/350-4-3	1440	m³ / s	0.765	0.738	0.712	0.686	0.660	0.606	0.543	0.466	0.356	-	-	-	35.3	0.360	1.23	Y	Inlet	51
		W / (L/s)	0.34	0.37	0.39	0.42	0.45	0.52	0.60	0.71	0.90	-	-	-					Outlet	53
																			Breakout	42
SQU67/400-4-3	1440	m³ / s	1.150	1.120	1.090	1.060	1.030	0.973	0.912	0.845	0.768	0.669	0.501	-	42.6	0.559	1.23	Y	Inlet	54
		W / (L/s)	0.34	0.37	0.40	0.43	0.46	0.53	0.60	0.67	0.75	0.84	1.02	-					Outlet	56
																			Breakout	45
SQU67/500-4-3	1440	m³ / s	1.920	1.880	1.840	1.800	1.760	1.700	1.630	1.560	1.490	1.410	1.330	1.090	47.1	1.308	2.34	Y	Inlet	61
		W / (L/s)	0.44	0.47	0.50	0.53	0.56	0.62	0.69	0.76	0.83	0.91	0.99	1.21					Outlet	64
																			Breakout	52
SQU82/500-4-3	1440	m³ / s	2.140	2.100	2.060	2.020	1.980	1.910	1.840	1.770	1.690	1.610	1.520	1.300	50.5	1.341	3.15	Y	Inlet	61
		W / (L/s)	0.39	0.42	0.44	0.47	0.49	0.55	0.60	0.66	0.72	0.79	0.86	1.03					Outlet	64
																			Breakout	52
SQU82/560-4-3	1440	m³ / s	2.970	2.930	2.890	2.860	2.820	2.740	2.670	2.590	2.510	2.440	2.350	2.170	51.5	2.437	4.56	Y	Inlet	65
		W / (L/s)	0.51	0.54	0.56	0.59	0.62	0.67	0.73	0.79	0.85	0.91	0.97	1.10					Outlet	69
																			Breakout	57
SQU102/630-4-3	1440	m³ / s	4.440	4.390	4.340	4.290	4.240	4.150	4.060	3.970	3.890	3.800	3.710	3.530	54.9	4.273	8.00	Y	Inlet	74
		W / (L/s)	0.64	0.65	0.67	0.68	0.71	0.75	0.80	0.85	0.91	0.97	1.03	1.15					Outlet	74
																			Breakout	58

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

ErP data in accordance with Regulation (EU) 1253/2014. Product category is NRVU. Measurement category used to determine energy efficiency: C.

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.

Sound Data

Single Phase 220V to 277V / 50Hz or 60Hz
90 Degree Configuration

Product Code	Control Voltage	Speed r/min		Sound Power Level dBW @ Octave Band Hz								Total dB
				63 Hz	125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	8k Hz	
SQU50/315-EC-1	10V	1815	Inlet	89	83	75	72	64	64	62	56	90
			Outlet	87	81	75	75	70	68	63	56	89
			Breakout	88	80	67	59	52	47	41	30	89
	7.5V	1310	Inlet	81	75	67	64	56	56	54	48	82
			Outlet	79	73	67	67	62	60	55	48	81
			Breakout	80	72	59	51	44	39	33	22	81
	5V	805	Inlet	69	63	55	52	44	44	42	36	70
			Outlet	67	61	55	55	50	48	43	36	69
			Breakout	68	60	47	40	32	27	21	10	69
SQU50/350-EC-1	10V	1810	Inlet	84	82	78	75	66	68	67	57	88
			Outlet	82	85	74	75	74	72	66	59	88
			Breakout	83	82	68	61	56	52	46	33	86
	7.5V	1310	Inlet	77	75	71	68	59	61	60	50	80
			Outlet	75	78	67	68	67	65	59	52	80
			Breakout	76	74	61	54	48	44	38	25	78
	5V	805	Inlet	65	63	59	56	47	49	48	38	68
			Outlet	63	66	55	56	55	53	47	40	69
			Breakout	64	63	49	42	36	32	26	13	67
SQU67/450-EC-1	10V	1655	Inlet	87	85	80	77	71	72	72	68	90
			Outlet	90	86	79	79	78	74	73	72	93
			Breakout	89	84	72	64	56	48	45	44	90
	7.5V	1175	Inlet	79	77	72	69	63	64	64	60	82
			Outlet	82	78	71	71	70	66	65	64	84
			Breakout	81	76	64	56	48	40	37	35	82
	5V	730	Inlet	68	66	61	58	52	53	53	49	71
			Outlet	71	67	60	60	59	55	54	53	73
			Breakout	69	64	52	45	36	29	25	24	70
SQU82/560-EC-1	10V	1105	Inlet	85	87	83	74	73	72	72	70	91
			Outlet	89	90	81	80	81	72	72	72	93
			Breakout	87	86	74	63	59	52	47	45	90
	7.5V	830	Inlet	77	79	75	66	65	64	64	62	83
			Outlet	81	82	73	72	73	64	64	64	85
			Breakout	79	78	66	55	51	44	39	37	82
	5V	515	Inlet	66	68	63	54	53	52	53	50	71
			Outlet	69	70	62	60	61	53	52	52	74
			Breakout	67	67	54	43	39	32	28	26	70

The Qube SQU is provided as 90. Easy to adjust panels allow straight to be achieved on-site.

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.

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.

Sound Data

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

Straight Configuration

Product Code	Control Voltage	Speed r/min		Sound Power Level dBW @ Octave Band Hz								Total dB
				63 Hz	125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	8k Hz	
SQU50/315-EC-1	10V	1815	Inlet	89	83	75	72	64	64	62	56	90
			Outlet	87	81	75	75	70	68	63	56	89
			Breakout	88	80	67	59	52	47	41	30	89
	7.5V	1310	Inlet	81	75	67	64	56	56	54	48	82
			Outlet	79	73	67	67	62	60	55	48	81
			Breakout	80	72	59	51	44	39	33	22	81
	5V	805	Inlet	69	63	55	52	44	44	42	36	70
			Outlet	67	61	55	55	50	48	43	36	69
			Breakout	68	60	47	40	32	27	21	10	69
SQU50/350-EC-1	10V	1810	Inlet	84	82	78	75	66	68	67	57	88
			Outlet	82	85	74	75	74	72	66	59	88
			Breakout	83	82	68	61	56	52	46	33	86
	7.5V	1310	Inlet	77	75	71	68	59	61	60	50	80
			Outlet	75	78	67	68	67	65	59	52	80
			Breakout	76	74	61	54	48	44	38	25	78
	5V	805	Inlet	65	63	59	56	47	49	48	38	68
			Outlet	63	66	55	56	55	53	47	40	69
			Breakout	64	63	49	42	36	32	26	13	67
SQU67/450-EC-1	10V	1655	Inlet	87	85	80	77	71	72	72	68	90
			Outlet	90	86	79	79	78	74	73	72	93
			Breakout	89	84	72	64	56	48	45	44	90
	7.5V	1175	Inlet	79	77	72	69	63	64	64	60	82
			Outlet	82	78	71	71	70	66	65	64	84
			Breakout	81	76	64	56	48	40	37	35	82
	5V	730	Inlet	68	66	61	58	52	53	53	49	71
			Outlet	71	67	60	60	59	55	54	53	73
			Breakout	69	64	52	45	36	29	25	24	70
SQU82/560-EC-1	10V	1115	Inlet	85	87	83	74	73	72	72	70	91
			Outlet	89	90	81	80	81	72	72	72	93
			Breakout	87	86	74	63	59	52	47	45	90
	7.5V	830	Inlet	77	79	75	66	65	64	64	62	83
			Outlet	81	82	73	72	73	64	64	64	85
			Breakout	79	78	66	55	51	44	39	37	82
	5V	510	Inlet	66	68	63	54	53	52	53	50	71
			Outlet	69	70	62	60	61	53	52	52	74
			Breakout	67	67	54	43	39	32	28	26	70

The Qube SQU is provided as 90. Easy to adjust panels allow straight to be achieved on-site.

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.

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.

Sound Data

Three Phase 380V to 480V / 50Hz or 60Hz
90 Degree Configuration

Product Code	Control Voltage	Speed r/min		Sound Power Level dBW @ Octave Band Hz								Total dB
				63 Hz	125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	8k Hz	
SQU67/450-EC-3	10V	1805	Inlet	89	87	82	79	73	74	74	70	92
			Outlet	92	88	81	81	80	76	75	74	95
			Breakout	91	86	74	66	58	50	47	46	92
	7.5V	1290	Inlet	81	79	74	71	65	66	66	62	84
			Outlet	84	80	73	73	72	68	67	66	87
			Breakout	83	78	66	58	50	42	39	38	84
	5V	790	Inlet	70	68	63	60	54	55	55	51	73
			Outlet	73	69	62	62	61	57	56	55	75
			Breakout	71	66	54	47	38	31	27	26	72
SQU82/500-EC-3	10V	1500	Inlet	88	88	83	77	73	74	74	70	92
			Outlet	91	89	82	81	81	75	74	74	94
			Breakout	90	87	74	65	59	54	49	47	91
	7.5V	1115	Inlet	81	81	76	70	66	66	67	63	85
			Outlet	84	82	75	74	74	68	67	66	87
			Breakout	83	80	67	58	52	47	42	40	84
	5V	695	Inlet	70	69	65	59	55	55	56	52	74
			Outlet	73	71	63	63	63	57	56	55	76
			Breakout	71	68	56	47	41	36	31	28	73
SQU82/560-EC-3	10V	1495	Inlet	91	93	89	80	79	78	78	76	97
			Outlet	95	96	87	86	87	78	78	78	99
			Breakout	93	92	80	69	65	58	53	51	96
	7.5V	1110	Inlet	84	86	82	73	72	71	71	69	90
			Outlet	88	88	80	79	80	71	71	71	92
			Breakout	86	85	73	62	58	51	46	44	89
	5V	700	Inlet	73	75	71	62	60	59	60	57	78
			Outlet	77	77	69	68	69	60	60	59	81
			Breakout	75	74	62	51	46	40	35	33	78
SQU82/630-EC-3	10V	1500	Inlet	95	99	95	83	84	82	83	81	102
			Outlet	99	102	93	91	93	82	82	82	105
			Breakout	97	98	86	73	70	62	58	56	101
	7.5V	1115	Inlet	88	92	88	76	77	75	76	74	95
			Outlet	92	95	86	84	86	75	75	75	98
			Breakout	90	91	79	66	63	55	51	49	94
	5V	700	Inlet	77	81	77	65	66	64	65	63	84
			Outlet	81	84	75	73	75	64	64	64	86
			Breakout	79	80	68	55	52	44	39	38	83
SQU102/630B-EC-3(90)	10V	1400	Inlet	93	102	97	78	81	78	70	76	104
			Outlet	97	105	95	86	90	78	69	77	106
			Breakout	93	97	82	64	63	51	36	41	99
	7.5V	1045	Inlet	86	95	90	71	74	71	63	69	97
			Outlet	90	98	88	79	83	71	62	70	99
			Breakout	86	90	75	57	56	44	29	34	92
	5V	660	Inlet	75	84	79	60	63	60	52	58	86
			Outlet	79	87	77	68	72	60	51	59	88
			Breakout	75	79	64	46	45	33	18	23	81

The Qube SQU is provided as 90. Easy to adjust panels allow straight to be achieved on-site.

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.

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.

Sound Data

Three Phase 380V to 480V / 50Hz or 60Hz
Straight Configuration

Product Code	Control Voltage	Speed r/min		Sound Power Level dBW @ Octave Band Hz								Total dB
				63 Hz	125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	8k Hz	
SQU67/450-EC-3	10V	1805	Inlet	89	87	82	79	73	74	74	70	92
			Outlet	92	88	81	81	80	76	75	74	95
			Breakout	91	86	74	66	58	50	47	46	92
	7.5V	1290	Inlet	81	79	74	71	65	66	66	62	84
			Outlet	84	80	73	73	72	68	67	66	87
			Breakout	83	78	66	58	50	42	39	38	84
	5V	790	Inlet	70	68	63	60	54	55	55	51	73
			Outlet	73	69	62	62	61	57	56	55	75
			Breakout	71	66	54	47	38	31	27	26	72
SQU82/500-EC-3	10V	1500	Inlet	88	88	83	77	73	74	74	70	92
			Outlet	91	89	82	81	81	75	74	74	94
			Breakout	90	87	74	65	59	54	49	47	91
	7.5V	1115	Inlet	81	81	76	70	66	66	67	63	85
			Outlet	84	82	75	74	74	68	67	66	87
			Breakout	83	80	67	58	52	47	42	40	84
	5V	695	Inlet	70	69	65	59	55	55	56	52	74
			Outlet	73	71	63	63	63	57	56	55	76
			Breakout	71	68	56	47	41	36	31	28	73
SQU82/560-EC-3	10V	1500	Inlet	91	93	89	80	79	78	78	76	97
			Outlet	95	96	87	86	87	78	78	78	99
			Breakout	93	92	80	69	65	58	53	51	96
	7.5V	1110	Inlet	84	86	82	73	72	71	71	69	90
			Outlet	88	88	80	79	80	71	71	71	92
			Breakout	86	85	73	62	58	51	46	44	89
	5V	695	Inlet	73	75	71	62	60	59	60	57	78
			Outlet	77	77	69	68	69	60	60	59	81
			Breakout	75	74	62	51	46	40	35	33	78
SQU82/630-EC-3	10V	1500	Inlet	95	99	95	83	84	82	83	81	102
			Outlet	99	102	93	91	93	82	82	82	105
			Breakout	97	99	86	73	71	62	58	56	101
	7.5V	1120	Inlet	88	92	88	76	77	75	76	74	95
			Outlet	92	95	86	84	86	75	75	75	98
			Breakout	90	91	79	66	63	55	51	49	94
	5V	700	Inlet	77	81	77	65	66	64	65	63	84
			Outlet	81	84	75	73	75	64	64	64	86
			Breakout	79	80	68	55	52	44	39	38	83
SQU102/630B-EC-3	10V	1400	Inlet	93	102	97	78	81	78	70	76	104
			Outlet	97	105	95	86	90	78	69	77	106
			Breakout	93	97	82	64	63	51	36	41	99
	7.5V	1045	Inlet	86	95	90	71	74	71	63	69	97
			Outlet	90	98	88	79	83	71	62	70	99
			Breakout	86	90	75	57	56	44	29	34	92
	5V	655	Inlet	75	84	79	60	63	60	52	58	86
			Outlet	79	87	77	68	72	60	51	59	88
			Breakout	75	79	64	46	45	33	18	23	81

The Qube SQU is provided as 90. Easy to adjust panels allow straight to be achieved on-site.

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.

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.

Sound Data

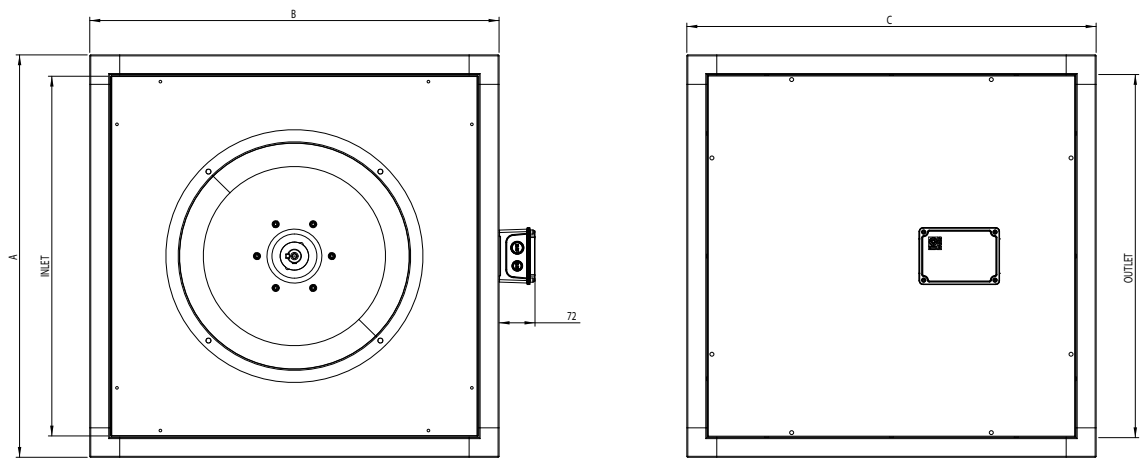
Three Phase 380V to 415V / 50Hz
90 Degree / Straight Configuration

Product Code	Speed r/min		Sound Power Level dBW @ Octave Band Hz								Total dB
			63 Hz	125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	8k Hz	
SQU50/350-4-3	1440	Inlet	79	76	72	69	60	63	62	52	82
		Outlet	82	77	70	72	67	65	62	52	84
		Breakout	81	75	63	57	49	46	41	27	82
SQU67/400-4-3	1440	Inlet	82	80	75	72	65	66	66	59	85
		Outlet	82	82	73	73	72	69	66	62	86
		Breakout	82	79	66	59	50	43	38	34	84
SQU67/500-4-3	1440	Inlet	87	87	82	76	73	73	73	70	91
		Outlet	90	88	81	80	80	74	73	73	93
		Breakout	89	86	74	64	58	49	45	45	91
SQU82/500-4-3	1440	Inlet	87	87	82	76	73	73	73	70	91
		Outlet	90	88	81	80	80	74	73	73	93
		Breakout	89	86	74	64	59	54	48	46	91
SQU82/560-4-3	1440	Inlet	91	92	88	79	78	77	77	75	96
		Outlet	94	95	86	85	86	78	77	77	98
		Breakout	93	92	79	68	64	58	52	51	96
SQU102/630-4-3	1440	Inlet	90	97	93	81	93	80	80	84	100
		Outlet	98	102	92	90	91	81	79	80	104
		Breakout	92	93	79	68	69	54	47	46	96

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.

Dimensional Data

Product Code	A	B	C	INLET	OUTLET	Weight kg
SQU50/315-EC-1	500	500	500	430	440	35
SQU50/350-4-3	500	500	500	430	440	35
SQU50/350-EC-1	500	500	500	430	440	35
SQU67/400-4-3	670	670	670	600	610	74
SQU67/450-EC-1	670	670	670	600	610	70
SQU67/450-EC-3	670	670	670	600	610	70
SQU67/500-4-3	670	670	670	600	610	79
SQU82/500-EC-3	820	820	820	730	740	94
SQU82/500-4-3	820	820	820	730	740	108
SQU82/560-EC-1	820	820	820	730	740	94
SQU82/560-4-3	820	820	820	730	740	120
SQU82/560-EC-3	820	820	820	730	740	94
SQU82/630-EC-3	820	820	820	730	740	94
SQU102/630B-EC-3	1020	1020	1020	930	940	135
SQU102/630-4-3	1020	1020	1020	930	940	155



The Qube SQU is provided as 90. Easy to adjust panels allow straight to be achieved on-site.

*Weight does not include mounting feet.
Dimensions are in mm.

Single Phase

Product Code	EC Electronic Controller	Electric Heater Battery	
SQU50/315-EC-1(Straight)	149-POT-10-MI	018-RH70/40-21-3TP	
SQU50/350-EC-1(Straight)	149-POT-10-MI	018-RH70/40-21-3TP	
SQU67/450-EC-1(Straight)	149-POT-10-MI	018-RH80/50-18-3TP	
SQU82/560-EC-1(Straight)	149-POT-10-MI	018-RH100/50-27-3TP	018-RH100/50-54-3TP

Product Code	EC Electronic Controller	Electric Heater Battery	
SQU50/315-EC-1(90)	149-POT-10-MI	018-RH70/40-21-3TP	
SQU50/350-EC-1(90)	149-POT-10-MI	018-RH70/40-21-3TP	
SQU67/450-EC-1(90)	149-POT-10-MI	018-RH80/50-18-3TP	
SQU82/560-EC-1 (90)	149-POT-10-MI	018-RH100/50-27-3TP	018-RH100/50-54-3TP

Three Phase

Product Code	EC Electronic Controller	Electric Heater Battery	
SQU67/450-EC-3(Straight)	149-POT-10-MI	018-RH80/50-18-3TP	
SQU82/500-EC-3(Straight)	149-POT-10-MI	018-RH100/50-27-3TP	018-RH100/50-54-3TP
SQU82/560-EC-3(Straight)	149-POT-10-MI	018-RH100/50-27-3TP	018-RH100/50-54-3TP
SQU82/630-EC-3(Straight)	149-POT-10-MI	018-RH100/50-27-3TP	018-RH100/50-54-3TP
SQU102/630B-EC-3(Straight)	149-POT-10-MI	018-RH100/50-42-3TP	

Product Code	EC Electronic Controller	Electric Heater Battery	
SQU67/450-EC-3(90)	149-POT-10-MI	018-RH80/50-18-3TP	
SQU82/500-EC-3(90)	149-POT-10-MI	018-RH100/50-27-3TP	018-RH100/50-54-3TP
SQU82/560-EC-3(90)	149-POT-10-MI	018-RH100/50-27-3TP	018-RH100/50-54-3TP
SQU82/630-EC-3(90)	149-POT-10-MI	018-RH100/50-27-3TP	018-RH100/50-54-3TP
SQU102/630B-EC-3(90)	149-POT-10-MI	018-RH100/50-42-3TP	

Three Phase

Product Code	Inverter Controller 3PH IP55	Electric Heater Battery	
SQU50/350-4-3	149-VFD-00-00-0016	018-RH70/40-21-3TP	
SQU67/400-4-3	149-VFD-00-00-0016	018-RH80/50-18-3TP	
SQU67/500-4-3	149-VFD-00-00-0018	018-RH80/50-18-3TP	
SQU82/500-4-3	149-VFD-00-00-0019	018-RH100/50-27-3TP	018-RH100/50-54-3TP
SQU82/560-4-3	149-VFD-00-00-0020	018-RH100/50-27-3TP	018-RH100/50-54-3TP
SQU102/630-4-3	149-VFD-00-00-0022	018-RH100/50-42-3TP	

*Specify Required Filter Media

** Specify with or without Melinex Lining

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