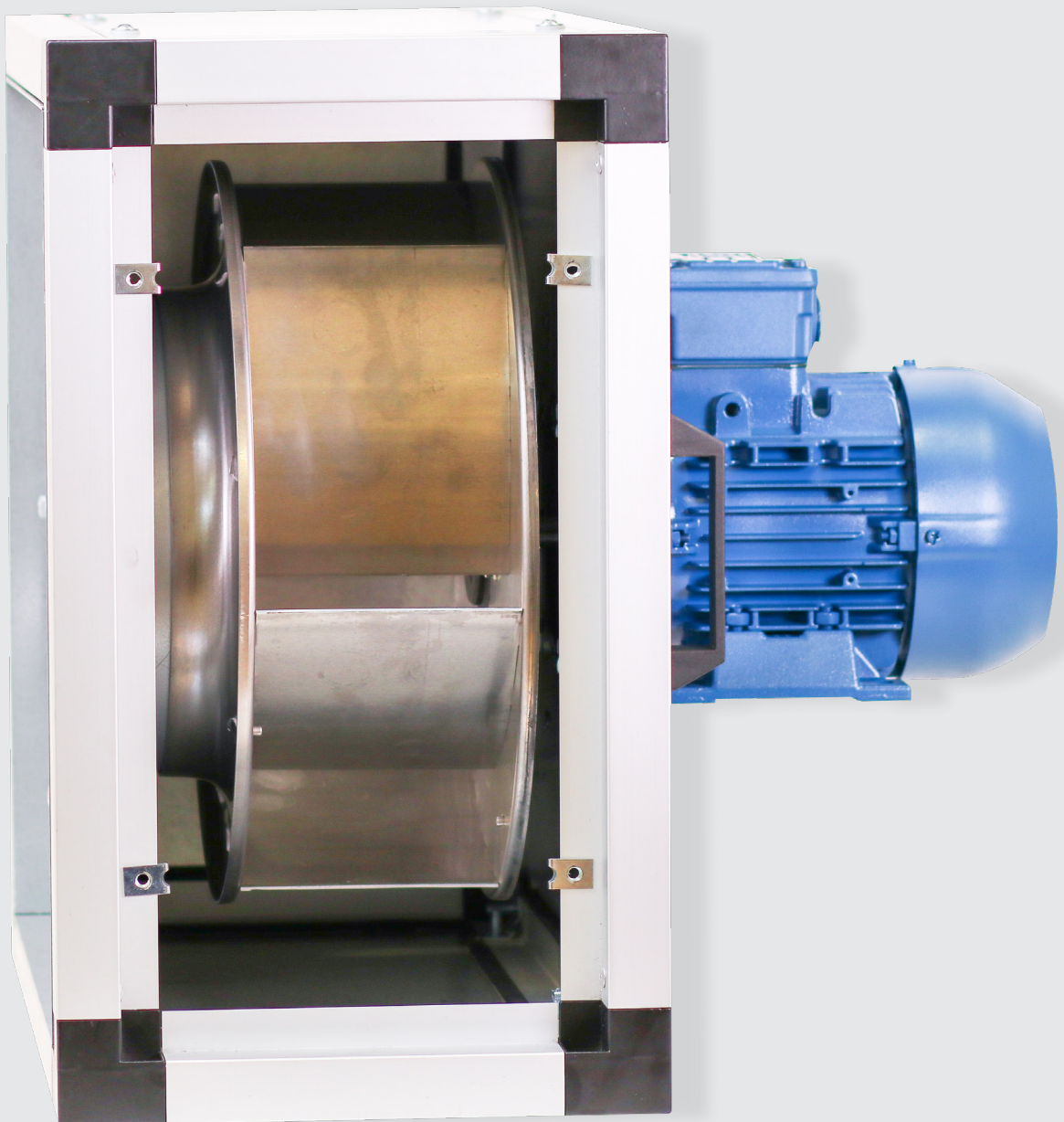


SLIM QUBE SSQUHT

Centrifugal Box Fan

ELTA



SLIM QUBE SSQUHT

Product Overview

- Box sizes of 500, 670, 820 and 1020mm
- Suitable for operating temperatures of up to +120°C (in duct)
- Painted Aluminium Corners
- Interchangeable double skinned panels
- Available in **AC**



A multi-discharge, double skinned fan unit incorporating a high performance backward curved impeller. With the motor situated out of the airstream, it is suitable for more arduous and elevated temperature applications.

High Temperature

Motors are out of the air stream and are not effected by contaminates in the ventilated air. The range is suitable for various applications, from contaminated air to elevated temperatures up to 120°C.

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.

Robust Construction

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

Controllability

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

Warranty

Each SSQU has a 24 month warranty.

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.

Motors

The IEC frame Motor shall be mounted out of the airstream and 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.

Impellers

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.

Design

The unit shall be designed and manufactured with procedures as defined in BS EN ISO 9001. Airside performance shall be tested to ISO 5801 and BS 848 Part 2 for sound performance.

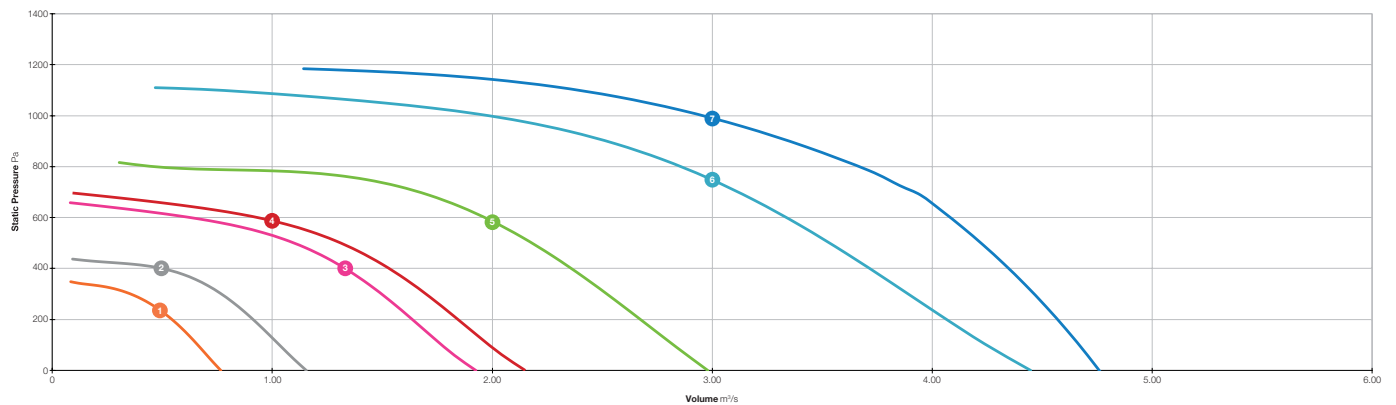
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SLIM QUBE SSQUHT



Performance Range Curves



1 SSQUHT50/350-4-3

2 SSQUHT67/400-4-3

3 SSQUHT67/500-4-3

4 SSQUHT82/500-4-3

5 SSQUHT82/560-4-3

6 SSQUHT102/630-4-3

7 SSQUHT102/630B-4-3

SLIM QUBE SSQUHT



Performance, SFP & Electrical Data

Three Phase 380V to 415V / 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	Δ / Y		
SSQUHT50/350-4-3	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
SSQUHT67/400-4-3	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
SSQUHT67/500-4-3	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	51
SSQUHT82/500-4-3	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	51
SSQUHT82/560-4-3	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
SSQUHT102/630-4-3	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	Δ	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
SSQUHT102/630B-4-3	1440	m³ / s	4.750	4.730	4.710	4.680	4.660	4.610	4.560	4.510	4.460	4.400	4.350	4.220	63.1	4.830	10.30	Δ	Inlet	71
		W / (L/s)	0.83	0.84	0.85	0.86	0.87	0.89	0.91	0.93	0.95	0.98	1.00	1.06					Outlet	73
																			Breakout	61

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

Exempt from ErP.

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.

SLIM QUBE SSQUHT



Sound Data

Three Phase 380V to 415V / 50Hz

Product Code	Speed r/min		Sound Power Level dBW @ Octave Band Hz								Total dB
			63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
SSQUHT50/350-4-3	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
SSQUHT67/400-4-3	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
SSQUHT67/500-4-3	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
SSQUHT82/500-4-3	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
SSQUHT82/560-4-3	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
SSQUHT102/630-4-3	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
SSQUHT102/630B-4-3	1440	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

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.

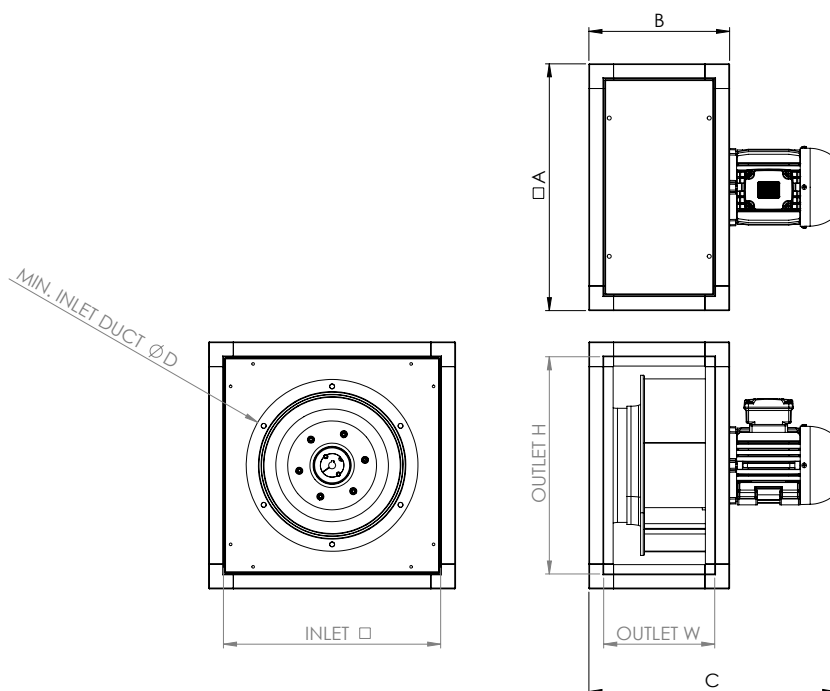
SLIM QUBE SSQUHT



Dimensional Data

Three Phase

Product Code	A	B	C	D	Inlet 	Outlet H	Outlet W	Weight
SSQUHT50/350-4-3	500	280	497	350	430	440	220	30
SSQUHT67/400-4-3	670	305	521	400	600	610	245	45
SSQUHT67/500-4-3	670	375	633	500	600	610	315	55
SSQUHT82/500-4-3	820	375	635	500	730	740	295	65
SSQUHT82/560-4-3	820	430	726	560	730	740	350	80
SSQUHT102/630-4-3	1020	445	760	630	930	940	365	100
SSQUHT102/630B-4-3	1020	445	835	630	930	940	365	130



Dimensions are in mm.

SLIM QUBE SSQUHT



Accessories

Three Phase

Product Code	Inverter Controller 3PH-3PH IP55	Louvre (Outlet)	Inlet Flexible Connections (each)	Outlet flexible connections (each)	Silencer **	Wiring Diagram
SSQUHT50/350-4-3	149-VFD-00-00-0016	79-SSQU50-LVR-350	79-SQU50-CON	79-SSQU50-CON-350	79-SQU50-SIL-80-MX	150-600
SSQUHT67/400-4-3	149-VFD-00-00-0016	79-SSQU67-LVR-400	79-SQU67-CON	79-SSQU67-CON-400	79-SQU67-SIL-80-MX	150-600
SSQUHT67/500-4-3	149-VFD-00-00-0017	79-SSQU67-LVR-500	79-SQU67-CON	79-SSQU67-CON-500	79-SQU67-SIL-80-MX	150-600
SSQUHT82/500-4-3	149-VFD-00-00-0019	79-SSQU82-LVR-500	79-SQU82-CON	79-SSQU82-CON-500	79-SQU82-SIL-120-MX	150-600
SSQUHT82/560-4-3	149-VFD-00-00-0019	79-SSQU82-LVR-560	79-SQU82-CON	79-SSQU82-CON-560	79-SQU82-SIL-120-MX	152-600
SSQUHT102/630-4-3	149-VFD-00-00-0022	79-SSQU102-LVR-630	79-SQU102-CON	79-SSQU102-CON-630	79-SQU102-SIL-120-MX	152-601
SSQUHT102/630B-4-3	149-VFD-00-00-0022	79-SSQU102-LVR-630	79-SQU102-CON	79-SSQU102-CON-630	79-SQU102-SIL-120-MX	152-601



Fan & inverter packages available.

Please contact Elta for more information.

** - MX silencers have a Melinex lining to prevent fibre migration/ contamination.

SLIM QUBE SSQUHT

Notes

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Notes

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