



Low Profile Box Fan

ELSJMF



Overview

Inline mixed flow circular fans with EC motors for low power consumption at high performance.

- 7 standard sizes from 100mm to 355mm
- Air volume flow rates up to 1.240 m³/s
- Static pressures up to 548 Pa
- Suitable for operating temperatures up to +60°C
- Light weight galvanised sheet steel casing
- Low Specific Fan Powers



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W00-04-02

We reserve the right to make changes without prior notice 2026-07-20



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H-Frame set includes:

Construction

Manufactured with aluminium or cold rolled steel sheet, dependant on size.

Motor

Brushless EC motors are fitted as standard. The IPX4 motor contains sealed for life heavy duty NWB bearings. All motors are suitable for use in ambient air conditions up to +60°C.

Impeller

A high efficiency jet design double mixed flow impeller integrated and directly driven by an EC motor.

Electrical Connection

Electrical connection via 1.5 metre Mains lead complete with BS1363-1 UK 3-pin plug BS1361 fuse 3A.

Control

Supplied suitable for fixed speed operation. A Detachable 5 metre lead with 3.5mm jack connection to the unit is supplied for connection to a remote potentiometer, 0-10VDC or PWM Circuit.

Quality Management

Units are to be designed and manufactured with procedures as defined in BS EN ISO 9001. All SJMF units are to be tested to ISO 5801 (airside performance) and BS EN ISO 5136 (sound performance).

Features and benefits

Motor / Impeller

High efficiency jet design double mixed flow impeller integrated and directly driven by Brushless EC motor. The IPX4 motor contains sealed for life heavy duty NWB bearings. All motors are suitable for use in ambient air conditions up to +60°C.

Full Speed Operation

Supplied suitable for fixed speed operation, control options achieved by removing the 3.5mm Jack plug hub and fitting supplied cable.

Speed Control

A Detachable 5 metre lead with 3.5mm jack connection to unit is supplied for connection to a remote potentiometer, 0-10VDC or PWM Circuit. A potentiometer controller is available for manual control.

Electrical Connection

Easy Installation, fitted with a 1.5 metre Mains lead complete with BS1363-1 UK 3-pin plug BS1361 fuse 3A, convenient for connecting to electrical sockets and providing a means of isolation / disconnection.

Low Energy

Low power consumption at high performance resulting in Low Specific Fan Powers for Building Regulation Compliance.

Warranty

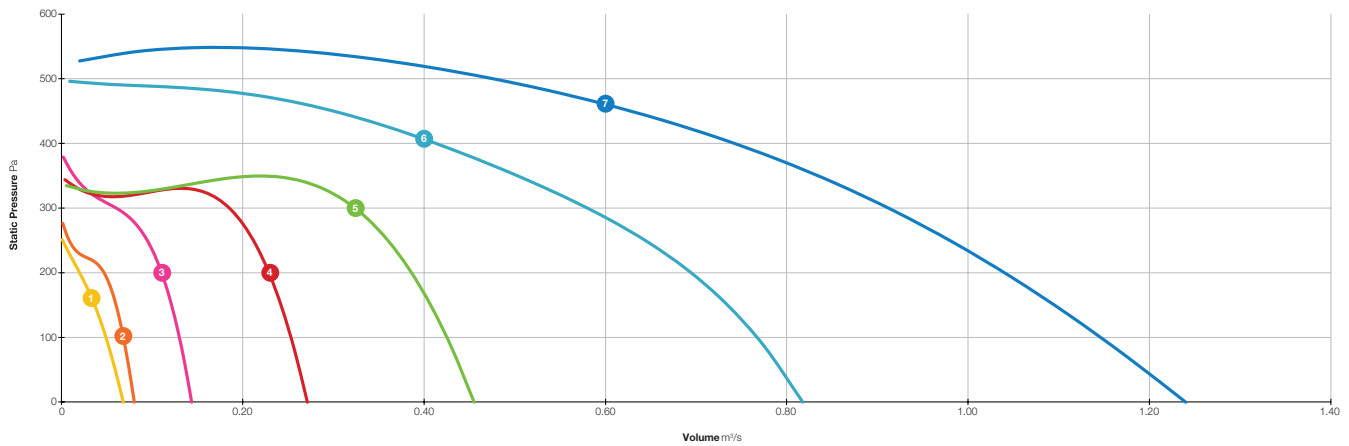
Each ELSJMF has a 24 month warranty.



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Performance Range Curves



- 1 ELSJMF100
- 2 ELSJMF125
- 3 ELSJMF150

- 4 ELSJMF200
- 5 ELSJMF250
- 6 ELSJMF315

- 7 ELSJMF355



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Performance, SFP & Electrical Data - Single Phase 220V to 240V / 50-60Hz

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			
ELSJMF 100	10	5000	m³/s	0.068	0.063	0.059	0.054	0.049	0.036	0.020	0.001	-	-	-	-	34.7	0.021	0.24	Inlet	46	
			W/(L/s)	0.31	0.33	0.36	0.40	0.45	0.57	0.95	15.12	-	-	-	-				Outlet	47	
	7.5	3750	m³/s	0.059	0.053	0.048	0.041	0.034	0.015	-	-	-	-	-	-	26.6	0.015	0.18	Inlet	42	
			W/(L/s)	0.25	0.27	0.31	0.36	0.42	0.85	-	-	-	-	-	-				Outlet	43	
	5	2500	m³/s	0.043	0.036	0.028	0.016	0.004	-	-	-	-	-	-	-	-	22.2	0.007	0.09	Inlet	36
			W/(L/s)	0.17	0.21	0.26	0.41	1.88	-	-	-	-	-	-	-	Outlet				36	
ELSJMF 125	10	5000	m³/s	0.080	0.077	0.074	0.071	0.068	0.060	0.046	0.008	-	-	-	-	45.5	0.027	0.26	Inlet	47	
			W/(L/s)	0.29	0.31	0.33	0.36	0.38	0.45	0.56	2.67	-	-	-	-				Outlet	48	
	7.5	3750	m³/s	0.069	0.066	0.062	0.058	0.053	0.038	0.001	-	-	-	-	-	43.4	0.018	0.18	Inlet	43	
			W/(L/s)	0.21	0.24	0.27	0.30	0.34	0.45	13.89	-	-	-	-	-				Outlet	44	
	5	2500	m³/s	0.051	0.046	0.041	0.032	0.009	-	-	-	-	-	-	-	-	37.2	0.009	0.09	Inlet	37
			W/(L/s)	0.14	0.18	0.21	0.26	0.76	-	-	-	-	-	-	-	Outlet				37	
ELSJMF 150	10	4980	m³/s	0.144	0.140	0.137	0.134	0.130	0.121	0.110	0.094	0.060	0.014	-	-	60.8	0.049	0.39	Inlet	50	
			W/(L/s)	0.29	0.30	0.32	0.33	0.35	0.40	0.45	0.52	0.70	3.17	-	-				Outlet	51	
	7.5	4245	m³/s	0.131	0.128	0.124	0.120	0.116	0.106	0.091	0.065	-	-	-	-	61.7	0.031	0.30	Inlet	46	
			W/(L/s)	0.24	0.26	0.27	0.29	0.31	0.36	0.42	0.53	-	-	-	-				Outlet	47	
	5	3195	m³/s	0.092	0.087	0.080	0.072	0.059	-	-	-	-	-	-	-	-	51.2	0.015	0.13	Inlet	40
			W/(L/s)	0.15	0.16	0.18	0.21	0.25	-	-	-	-	-	-	-	Outlet				40	
ELSJMF 200	10	3740	m³/s	0.269	0.266	0.262	0.257	0.253	0.242	0.229	0.211	0.180	-	-	-	50.4	0.100	0.79	Inlet	51	
			W/(L/s)	0.26	0.28	0.30	0.32	0.34	0.38	0.42	0.47	0.54	-	-	-				Outlet	52	
	7.5	3225	m³/s	0.232	0.227	0.221	0.215	0.208	0.191	0.162	0.110	-	-	-	-	55.9	0.060	0.59	Inlet	48	
			W/(L/s)	0.28	0.30	0.32	0.33	0.35	0.40	0.46	0.59	-	-	-	-				Outlet	49	
	5	2505	m³/s	0.179	0.172	0.164	0.153	0.136	-	-	-	-	-	-	-	-	58.4	0.030	0.25	Inlet	43
			W/(L/s)	0.13	0.15	0.17	0.19	0.22	-	-	-	-	-	-	-	Outlet				43	
ELSJMF 250	10	3195	m³/s	0.455	0.448	0.441	0.433	0.425	0.407	0.386	0.360	0.324	-	-	-	68.7	0.172	1.30	Inlet	55	
			W/(L/s)	0.28	0.29	0.31	0.33	0.34	0.38	0.43	0.48	0.54	-	-	-				Outlet	56	
	7.5	2725	m³/s	0.414	0.406	0.399	0.390	0.382	0.361	0.336	0.298	-	-	-	-	71.1	0.106	0.98	Inlet	51	
			W/(L/s)	0.24	0.25	0.26	0.28	0.29	0.33	0.38	0.44	-	-	-	-				Outlet	52	
	5	2040	m³/s	0.287	0.275	0.261	0.245	0.223	-	-	-	-	-	-	-	-	66.5	0.045	0.36	Inlet	45
			W/(L/s)	0.12	0.14	0.15	0.18	0.20	-	-	-	-	-	-	-	Outlet				45	
ELSJMF 315	10	3000	m³/s	0.817	0.806	0.794	0.781	0.767	0.734	0.694	0.644	0.580	0.503	0.413	-	56.4	0.371	2.71	Inlet	62	
			W/(L/s)	0.37	0.39	0.41	0.43	0.46	0.50	0.55	0.60	0.67	0.75	0.87	-				Outlet	62	
	7.5	2600	m³/s	0.715	0.695	0.674	0.654	0.633	0.589	0.540	0.482	0.401	0.141	0.026	-	59.6	0.253	1.96	Inlet	58	
			W/(L/s)	0.29	0.32	0.34	0.36	0.38	0.43	0.47	0.53	0.61	1.61	10.16	-				Outlet	58	
	5	1950	m³/s	0.537	0.505	0.475	0.446	0.416	0.346	0.072	-	-	-	-	-	62.0	0.111	0.91	Inlet	52	
			W/(L/s)	0.19	0.20	0.22	0.23	0.25	0.30	1.48	-	-	-	-	-				Outlet	52	
ELSJMF 355	10	3000	m³/s	1.240	1.210	1.190	1.170	1.140	1.090	1.040	0.980	0.912	0.835	0.742	0.477	67.6	0.538	3.80	Inlet	64	
			W/(L/s)	0.43	0.44	0.45	0.46	0.47	0.49	0.51	0.55	0.59	0.64	0.72	1.12				Outlet	66	
	7.5	2655	m³/s	1.090	1.060	1.040	1.010	0.989	0.927	0.856	0.773	0.674	0.553	0.392	-	66.4	0.376	2.73	Inlet	62	
			W/(L/s)	0.34	0.35	0.36	0.37	0.38	0.40	0.44	0.49	0.56	0.68	0.96	-				Outlet	63	
	5	1930	m³/s	0.800	0.768	0.731	0.690	0.643	0.533	0.393	-	-	-	-	-	63.2	0.162	1.26	Inlet	56	
			W/(L/s)	0.20	0.21	0.22	0.23	0.25	0.30	0.41	-	-	-	-	-				Outlet	57	
	2.5	1380	m³/s	0.589	0.525	0.448	0.362	0.257	-	-	-	-	-	-	-	52.7	0.067	0.62	Inlet	46	
			W/(L/s)	0.12	0.13	0.15	0.18	0.26	-	-	-	-	-	-	-				Outlet	49	

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

ErP data in accordance with Regulation (EU) 1253/2014. Product category is NRVL. 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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Sound Data - Single Phase 220V to 240V / 50-60Hz

Product Code	Control Voltage V	Speed r/min		Sound Power Level dBW @ Octave Band Hz								Total dB
				63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
ELSJMF100	10	5000	Inlet	50	47	53	62	59	60	58	57	67
			Outlet	47	47	55	63	60	60	60	58	68
	7.5	3750	Inlet	43	44	51	58	55	57	54	53	63
			Outlet	47	44	52	59	55	57	56	53	64
	5	2500	Inlet	49	42	49	52	49	52	48	47	58
			Outlet	45	41	48	52	49	51	50	47	58
ELSJMF125	10	5000	Inlet	51	48	54	63	60	61	59	58	68
			Outlet	48	48	56	64	61	61	61	59	69
	7.5	3750	Inlet	44	45	52	59	56	58	55	54	64
			Outlet	48	45	53	60	56	58	57	54	65
	5	2500	Inlet	50	43	50	53	50	53	49	48	59
			Outlet	46	42	49	53	50	52	51	48	59
ELSJMF150	10	4980	Inlet	54	51	57	66	63	64	62	61	71
			Outlet	51	51	59	67	64	64	64	62	72
	7.5	4245	Inlet	47	48	55	62	59	61	58	57	67
			Outlet	51	48	56	63	59	61	60	57	68
	5	3195	Inlet	53	46	53	56	53	56	52	51	62
			Outlet	49	45	52	56	53	55	54	51	62
ELSJMF200	10	3740	Inlet	73	56	57	66	65	66	65	62	76
			Outlet	58	55	61	67	65	67	66	63	73
	7.5	3225	Inlet	57	50	57	61	62	63	61	57	69
			Outlet	52	53	60	64	62	64	62	59	70
	5	2505	Inlet	46	47	56	55	58	59	55	52	64
			Outlet	48	48	58	58	57	59	56	52	65
ELSJMF250	10	3195	Inlet	72	58	65	72	70	69	68	65	78
			Outlet	77	60	67	72	70	70	69	67	80
	7.5	2725	Inlet	54	57	64	66	66	66	64	60	73
			Outlet	53	58	70	66	66	67	65	62	75
	5	2040	Inlet	48	51	60	59	60	60	56	52	67
			Outlet	51	53	61	59	60	61	57	53	67
ELSJMF315	10	3000	Inlet	80	82	80	78	77	75	71	65	91
			Outlet	81	80	79	78	77	77	72	66	92
	7.5	2600	Inlet	78	79	78	75	73	72	68	61	89
			Outlet	79	77	77	75	73	73	68	62	89
	5	1950	Inlet	74	78	73	67	65	63	58	52	85
			Outlet	75	77	73	67	65	65	58	51	84
ELSJMF355	10	3000	Inlet	85	86	86	82	79	76	72	68	91
			Outlet	83	84	82	84	80	80	75	72	90
	7.5	2655	Inlet	85	90	84	79	77	74	69	66	92
			Outlet	85	88	84	79	78	77	71	67	91
	5	1930	Inlet	79	88	79	71	68	65	60	55	89
			Outlet	80	89	77	71	70	69	60	56	90
	2.5	1380	Inlet	79	75	68	62	62	55	49	44	81
			Outlet	81	76	68	62	66	59	49	44	83

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.

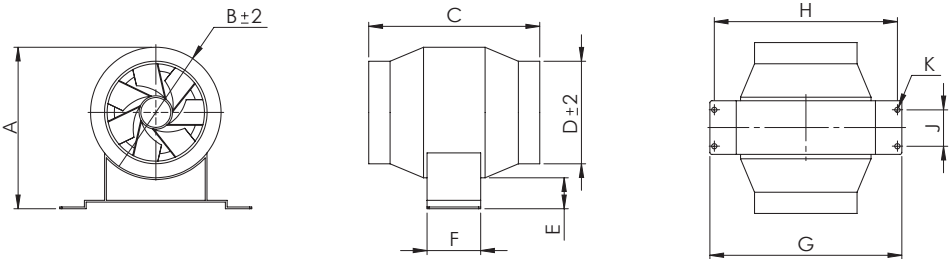


Elta inline mixed flow fan ELSJMF

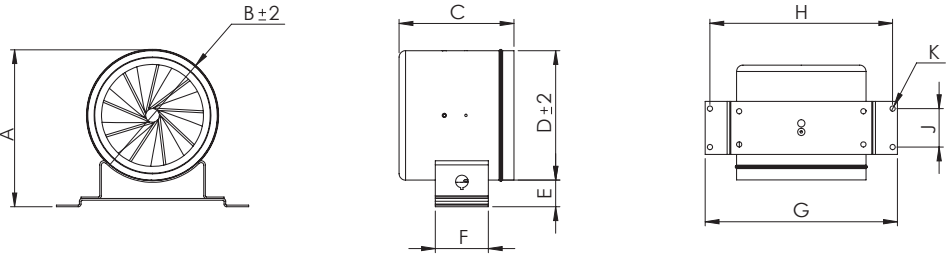
Dimensional Data - Single Phase

Product Code	A	B	C	D	E	F	G	H	J	K	Weight kg
ELSJMF100	150	125	159	98	25	51	184	175	37	5	11
ELSJMF125	151	126	110	124	26	51	184	175	37	5	11
ELSJMF150	173	153	165	150	21	80	187	175	37	5 x 8 SLOT	16
ELSJMF200	223	203	220	200	22	105	221	210	39	5 x 8 SLOT	26
ELSJMF250	274	254	210	250	22	105	300	288	56	5 x 8 SLOT	37
ELSJMF315	356	317	290	313	39	164	360	336	68	9 x 14 SLOT	8.5
ELSJMF355	401	358	330	353	45	184	405	380	77	9 x 14 SLOT	120

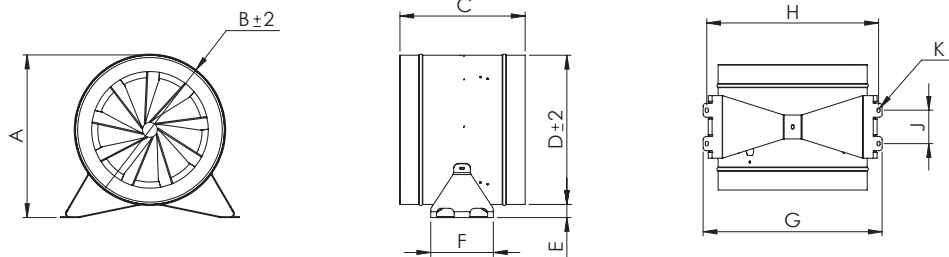
ELSJMF100



ELSJMF125



ELSJMF150-ELJMF355



Dimensions are in mm.