

Long Life Fan

- Brushless DC Motor with Aluminium Fan Housing and Plastic Impeller
- Expected Service Life of 100,000 hours (120mm fans = 200,000 hours) (90% survival rate at 60 °C, nominal voltage, continuous operation with unobstructed inlets and outlets)
- Permanently Lubricated Dual Ball Bearing System
- Current Limiting System with Reverse Polarity Protection
- Color-coded 300mm AWG 24 Leads (stripped and thinned ends)
- Dual Speed Models Available
- Pulse/Lock/Inverse Lock/Low Speed/Inverse Low Speed Sensor Options
- Operating Temperature: -10 °C to +60 °C (No Condensation)
- Storage Temperature: -30 °C to +70 °C (No Condensation)
- Rotational Direction: CW looking at label (Ø172mm fan = CCW)
- Dielectric Strength: 50/60 Hz, 500 VAC, one (1) minute (between lead conductor and frame)
- Mass: 100g to 780g



60 x 60 x 25mm

Click on Model No in red to view air performance curves

Airflow	Airflow	Static Pressure	Static Pressure	Nominal Voltage	Voltage Range	Sound Pressure	Power Input	Nominal Speed	Model No.
m ³ /min	CFM	Pa	inch/H ₂ O	V	V	dB(A)	W	min ⁻¹	
0.65	23.0	57.3	0.23	12	10.2 - 13.8	33	2.04	4600	109L0612S402
0.53	18.7	40.2	0.16	12	10.2 - 13.8	28	1.32	3800	109L0612H402
0.44	15.5	29.4	0.12	12	10.2 - 13.8	24	1.08	3200	109L0612F402
0.36	12.7	19.6	0.08	12	10.2 - 13.8	20	0.72	2600	109L0612M402
0.65	23.0	57.3	0.23	24	20.4 - 27.6	33	1.92	4600	109L0624S402
0.53	18.7	40.2	0.16	24	20.4 - 27.6	28	1.44	3800	109L0624H402
0.44	15.5	29.4	0.12	24	20.4 - 27.6	24	1.20	3200	109L0624F402
0.36	12.7	19.6	0.08	24	20.4 - 27.6	20	0.96	2600	109L0624M402
0.78	27.6	87.2	0.35	48	40.8 - 55.2	39	3.36	5600	109L0648G401*
0.53	18.7	40.2	0.16	48	40.8 - 53.0	28	1.92	3800	109L0648H402

Click to view dimensional drawings

- [Models without sensor](#)
- [Models with sensor](#)

Long Life Fan

80 x 80 x 25mm

Click on Model No in red to view air performance curves

Airflow	Airflow	Static Pressure	Static Pressure	Nominal Voltage	Voltage Range	Sound Pressure	Power Input	Nominal Speed	Model No.
m ³ /min	CFM	Pa	inch/H ₂ O	V	V	dB(A)	W	min ⁻¹	
1.20	42.4	49.8	0.20	12	10.2 - 13.8	37	3.12	3400	109L0812S4D01**
1.06	37.4	39.2	0.16	12	10.2 - 13.8	32	2.16	3000	109L0812H402
0.93	32.8	32.3	0.13	12	10.2 - 13.8	29	1.68	2700	109L0812F402
0.83	29.3	26.5	0.11	12	10.2 - 13.8	26	1.20	2400	109L0812M402
0.63	22.2	16.7	0.07	12	10.2 - 13.8	22	0.96	1900	109L0812L402
1.06	37.4	39.2	0.16	24	20.4 - 27.6	32	2.16	3000	109L0824H402
0.93	32.8	32.3	0.13	24	20.4 - 27.6	29	1.92	2700	109L0824F402
0.83	29.3	26.5	0.11	24	20.4 - 27.6	26	1.68	2400	109L0824M402
0.63	22.2	16.7	0.07	24	20.4 - 27.6	22	1.20	1900	109L0824L402
1.10	38.8	43.1	0.17	48	40.8 - 55.2	34	2.88	3150	109L0848H402

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■ [Models without sensor](#)

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92 x 92 x 25mm

Click on Model No in red to view air performance curves

Airflow	Airflow	Static Pressure	Static Pressure	Nominal Voltage	Voltage Range	Sound Pressure	Power Input	Nominal Speed	Model No.
m ³ /min	CFM	Pa	inch/H ₂ O	V	V	dB(A)	W	min ⁻¹	
1.01	35.7	22.4	0.09	5	4.5 - 5.5	27	1.20	2100	109L0905M401*
1.38	48.7	45.1	0.18	12	10.2 - 13.8	33	2.52	2850	109L0912H402
1.18	41.7	32.3	0.13	12	10.2 - 13.8	30	1.68	2450	109L0912F402
1.01	35.7	23.5	0.09	12	10.2 - 13.8	27	1.32	2100	109L0912M402
0.80	28.2	16.7	0.07	12	10.2 - 13.8	23	0.96	1700	109L0912L402
1.38	48.7	45.1	0.18	24	20.4 - 27.6	33	2.88	2850	109L0924H402
1.18	41.7	32.3	0.13	24	20.4 - 27.6	30	1.92	2450	109L0924F402
1.01	35.7	23.5	0.09	24	20.4 - 27.6	27	1.44	2100	109L0924M402
0.80	28.2	16.7	0.07	24	20.4 - 27.6	23	1.20	1700	109L0924L402
1.64	58.0	64.7	0.26	48	48.0 - 53.0	38	4.80	3400	109L0948C401*
1.38	48.7	45.1	0.18	48	40.8 - 55.2	33	2.88	2850	109L0948H402

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Long Life Fan

119 x 119 x 38mm

Click on Model No in red to view air performance curves

Airflow	Airflow	Static Pressure	Static Pressure	Nominal Voltage	Voltage Range	Sound Pressure	Power Input	Nominal Speed	Model No.
m ³ /min	CFM	Pa	inch/H ₂ O	V	V	dB(A)	W	min ⁻¹	
1.55	54.8	22.4	0.09	5	4.5 - 5.5	23	1.55	1500	109L1205L101*
3.00	106.0	70.5	0.28	12	10.2 - 13.8	41	4.80	2850	109L1212H102
2.25	79.4	41.1	0.17	12	10.2 - 13.8	34	2.64	2150	109L1212M102
3.00	106.0	70.5	0.28	21	17.8 - 24.2	41	5.04	2850	109L1221H102
3.00	106.0	70.5	0.28	24	20.4 - 27.6	41	5.04	2850	109L1224H102
2.25	79.4	41.1	0.17	24	20.4 - 27.6	34	2.40	2150	109L1224M102
3.00	106.0	70.5	0.28	48	40.8 - 55.2	41	5.76	2850	109L1248H102
2.25	79.4	41.1	0.17	48	40.8 - 55.2	34	2.88	2150	109L1248M102

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140 x 140 x 38mm

Click on Model No in red to view air performance curves

Airflow	Airflow	Static Pressure	Static Pressure	Nominal Voltage	Voltage Range	Sound Pressure	Power Input	Nominal Speed	Model No.
m ³ /min	CFM	Pa	inch/H ₂ O	V	V	dB(A)	W	min ⁻¹	
4.50	159.0	98.0	0.39	12	10.2 - 13.8	46	8.76	2600	109L1412H102
3.30	116.5	52.0	0.21	12	10.2 - 13.8	38	3.60	1900	109L1412M102
4.50	159.0	98.0	0.39	24	20.4 - 27.6	46	8.88	2600	109L1424H102
3.30	116.5	52.0	0.21	24	20.4 - 27.6	38	4.32	1900	109L1424M102
4.50	159.0	98.0	0.39	48	40.8 - 55.2	46	9.60	2600	109L1448H102
3.30	116.5	52.0	0.21	48	40.8 - 55.2	38	4.32	1900	109L1448M102

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■ [Models without sensor](#)

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Long Life Fan

140 x 140 x 51mm

Click on Model No in red to view air performance curves

Airflow	Airflow	Static Pressure	Static Pressure	Nominal Voltage	Voltage Range	Sound Pressure	Power Input	Nominal Speed	Model No.
m ³ /min	CFM	Pa	inch/H ₂ O	V	V	dB(A)	W	min ⁻¹	
5.90	208.3	142.1	0.57	12	10.2 - 13.8	52	16.8	3200	109L1412H502
3.90	137.7	68.6	0.27	12	10.2 - 13.8	41	5.52	2100	109L1412M502
5.90	208.3	142.1	0.57	24	20.4 - 27.6	52	14.4	3200	109L1424H502
3.90	137.7	68.6	0.27	24	20.4 - 27.6	41	5.04	2100	109L1424M502
5.90	208.3	142.1	0.57	48	40.8 - 55.2	52	13.9	3200	109L1448H502
3.90	137.7	68.6	0.27	48	40.8 - 55.2	41	5.76	2100	109L1448M502

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■ [Models without sensor](#)

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Ø172 x 51mm

Click on Model No in red to view air performance curves

Airflow	Airflow	Static Pressure	Static Pressure	Nominal Voltage	Voltage Range	Sound Pressure	Power Input	Nominal Speed	Model No.
m ³ /min	CFM	Pa	inch/H ₂ O	V	V	dB(A)	W	min ⁻¹	
6.40	226.0	137.2	0.55	12	10.2 - 13.8	47	14.4	3050	109L1712H502
4.20	148.3	67.6	0.27	12	10.2 - 13.8	36	5.76	2000	109L1712M502
6.40	226.0	137.2	0.55	24	20.4 - 27.6	47	13.92	3050	109L1724H502
4.20	148.3	67.6	0.27	24	20.4 - 27.6	36	4.80	2000	109L1724M502
6.40	226.0	137.2	0.55	48	40.8 - 55.2	47	13.44	3050	109L1748H502
4.20	148.3	67.6	0.27	48	40.8 - 55.2	36	5.28	2000	109L1748M502

Click to view dimensional drawings

■ [Models without sensor](#)

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Long Life Fan

Ø172 x 150 x 51mm

Click on Model No in red to view air performance curves

Airflow	Airflow	Static Pressure	Static Pressure	Nominal Voltage	Voltage Range	Sound Pressure	Power Input	Nominal Speed	Model No.
m ³ /min	CFM	Pa	inch/H ₂ O	V	V	dB(A)	W	min ⁻¹	
6.40	226.0	137.2	0.55	12	10.2 - 13.8	52	14.4	3050	109L5712H502
4.20	148.3	67.6	0.27	12	10.2 - 13.8	41	5.76	2000	109L5712M502
6.40	226.0	137.2	0.55	24	20.4 - 27.6	52	13.92	3050	109L5724H502
4.20	148.3	67.6	0.27	24	20.4 - 27.6	41	4.80	2000	109L5724M502
6.40	226.0	137.2	0.55	48	40.8 - 55.2	52	13.44	3050	109L5748H502
4.20	148.3	67.6	0.27	48	40.8 - 55.2	41	5.28	2000	109L5748M502

Click to view dimensional drawings

■ [Models without sensor](#)

■ [Models with sensor](#)

- Notes: (1) Listed models are non-sensor types (exceptions: *pulse sensor type, **lock sensor type)
 (2) Airflow, power input, speed and noise ratings are at nominal voltage against zero static pressure.
 (3) Static pressure ratings are at nominal voltage against zero air flow.
 (4) Noise ratings are average values as measured from a point one (1) meter from intake of fan suspended in an anechoic chamber.
 (5) Air performance curves show fan outputs with unobstructed inlets and outlets.
 (6) Some model types are without UL, CSA and TÜV approvals.