

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 |

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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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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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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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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 |

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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 |

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- 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.