

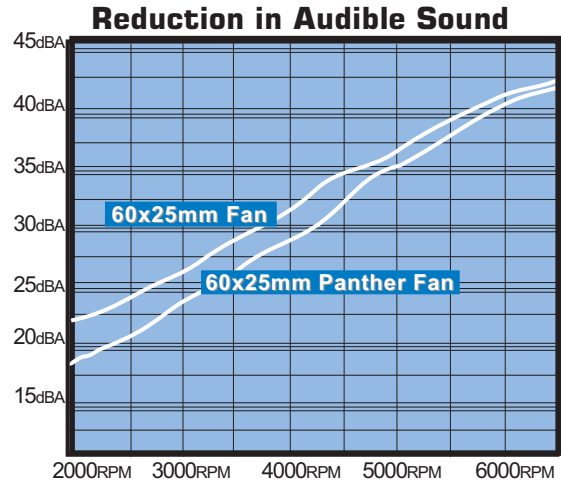
PANTHER FANS

YOU WON'T HEAR THEM COMING

JMC's new Panther fans are ready to pounce on fan noise - introducing a fan technology that is so quiet, you can hardly hear it.

In traditional fans, the most dominant acoustic noise is due to the fan's motor switching noise. The stator motion is a square wave that is switched on and off before and after the peak torque position. This motion causes a small amount of undulation in motor torque, producing an audible noise caused by the lower frequency commutation operation. Each small torque causes a minute contracting of the entire fan structure and results in an audible clicking noise while the fan is operating.

Panther fans operate at switching levels above 20KHz, a much higher frequency level, producing a soft commutation that results in a quiet operation that is above the audible range for human hearing. Quiet operation is noticeable in Panther fans running at low speeds as represented in the graph above.



FEATURES

- Significant noise reduction at low speed
- Three speed control options available:
 1. Thermistor Control
 2. PWM Control
 3. Voltage Control
- Thermal shut down circuit
- Single-phase bipolar drive
- Lock protect and auto restart function
- Tach or locked rotor output signals

SPECIFICATIONS

| Part # | Size (mm) | Voltage (Vdc) | Power (W) | Current (A) | Speed (RPM) | Pressure (in. H2O) | Air Flow (CFM) | Noise (dBA) | Weight (g) |
|-----------|-----------|---------------|-----------|-------------|-------------|--------------------|----------------|-------------|------------|
| 602211Q-0 | 60x60x15 | 6.0-13.8 | 1.20 | 0.10 | 2000 | 0.04 | 8.0 | 19.68 | 42 |
| 622211Q-0 | 60x60x25 | 6.0-13.8 | 0.84 | 0.07 | 3000 | 0.08 | 15.0 | 22.15 | 63 |
| 712211Q-0 | 70x70x15 | 6.0-13.8 | 1.92 | 0.16 | 3000 | 0.09 | 23.5 | 26.13 | 48 |
| 732211Q-0 | 70x70x25 | 6.0-13.8 | 1.20 | 0.10 | 2600 | 0.08 | 16.0 | 21.47 | 70 |
| 802211Q-0 | 80x80x15 | 6.0-13.8 | 1.08 | 0.09 | 2000 | 0.05 | 20.0 | 21.41 | 55 |
| 812211Q-0 | 80x80x25 | 6.0-13.8 | 1.80 | 0.15 | 2500 | 0.10 | 26.0 | 25.63 | 73 |
| 902211Q-0 | 92x92x25 | 6.0-13.8 | 1.56 | 0.13 | 2000 | 0.08 | 40.0 | 23.74 | 85 |

