



METAL ENCLOSURE BLOG FOR

Dell: How Metal Enclosures Transformed Noise Control in High-Tech Facilities

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WHY METAL ENCLOSURES MATTER IN HIGH-TECH OPERATIONS

In high-tech manufacturing, even moderate noise can disrupt operations, affect employee focus, and compromise sensitive equipment. At Dell, server testing labs, electronics assembly areas, and mechanical support rooms all generated noise levels that impacted workflow and communication.

Implementing high-performance metal enclosures became essential to ensure both staff safety and equipment efficiency.

THE NOISE PROBLEM: EQUIPMENT DISRUPTING WORKFLOW

Dell's high-capacity equipment, including industrial HVAC units, server racks, and electrical panels, caused:

- Communication challenges on busy production floors
- Acoustic interference in precision testing zones
- Elevated decibel levels exceeding safe thresholds
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To maintain operational performance and employee comfort, Dell needed a solution that contained noise at the source without disrupting access to critical equipment.

CUSTOM METAL ENCLOSURES

All Noise Control provided durable, modular metal enclosures tailored to Dell's facility:

- Heavy-gauge metal panels with high STC sound-blocking cores
- Modular design with lift-off panels, hinged doors, and removable sections for maintenance
- Ventilation-friendly openings to preserve proper airflow for servers and HVAC systems
- Vibration-resistant construction to prevent resonance in equipment racks

This system allowed Dell to maintain operational continuity while significantly reducing noise exposure for employees.

PROVEN RESULTS: NOISE REDUCTION AND OPERATIONAL BENEFITS

After installation, Dell experienced:

- Up to 28 dB reduction in high-noise areas
- Improved communication across labs and production floors
- Enhanced employee focus and comfort
- Easy access for maintenance without halting operations
- Long-term durability under continuous operation