



METAL ENCLOSURE FOR

JOHNSON & JOHNSON: Custom Metal Enclosures for HVAC Systems, Industrial Compressors & Production Machinery

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OVERVIEW

Johnson & Johnson operates a large pharmaceutical and medical device manufacturing facility in Tampa, FL. The site houses high-capacity HVAC systems, industrial compressors, and production machinery essential to maintaining controlled, compliant manufacturing environments. Noise control and equipment protection are critical to both employee safety and product quality.

THE CHALLENGE: HIGH-DECIBEL INDUSTRIAL EQUIPMENT IN A SENSITIVE FACILITY

The facility's noise challenges included:

Primary Noise Sources

- High-capacity HVAC units supporting production cleanrooms
- Industrial compressors driving machinery operations
- Large-scale production equipment and motors

Operational Problems

- Excessive noise affecting staff communication and focus
- Difficulty maintaining OSHA noise compliance thresholds
- Existing barriers insufficient for high-decibel industrial equipment
- Enclosures needed to withstand continuous operation, heat, and vibration

Project Requirements

Johnson & Johnson required metal enclosures that would:

- Deliver high STC noise reduction
- Protect equipment while providing full maintenance access
- Integrate with HVAC and production layouts
- Be durable enough for long-term continuous operation

ALL NOISE CONTROL'S SOLUTION: HEAVY-DUTY METAL ENCLOSURE SYSTEMS

All Noise Control designed custom metal enclosures to address each equipment type.

1. HVAC Metal Enclosures

- Heavy-gauge steel wall panels with reinforced frames
- High-density noise-blocking cores to reduce airborne sound
- Service-access doors and removable panel sections for maintenance

2. Industrial Compressor Enclosures

- Durable metal panels surrounding compressors
- Integrated access hatches for routine servicing
- Noise isolation optimized to protect adjacent production areas

3. Production Machinery Metal Enclosures

- Custom-fit metal enclosures for large motors and processing equipment
- Modular design allowed future adjustments and expansions
- Corrosion-resistant finishes for long-term durability

4. Maintenance-Friendly Modular Construction

- Hinged doors and removable panels for easy inspection
- Tool-free access to all critical components
- Modular architecture allowed minimal downtime during installation

RESULTS & MEASURABLE IMPROVEMENTS

Noise Reduction

- 20–28 dB reduction across key equipment zones
- Reduced interference with laboratory and production areas
- Safer and more comfortable environment for staff

Operational Benefits

- Maintenance teams can service equipment quickly and efficiently
- Enclosures integrated seamlessly without disrupting production schedules
- Enhanced compliance with OSHA noise standards

Long-Term Performance

- Metal enclosures withstand continuous heat and vibration
- Durable construction requires minimal upkeep
- Systems remain adaptable for future machinery expansions