

ALUMINUM PANEL MANUFACTURER ELIMINATES EXPLOSIVE DUST WITH HIGH VACUUM SOURCE CAPTURE WET COLLECTOR

A manufacturer of aluminum panels contacted Eurovac with a problem due to airborne aluminum dust. In the manufacturing process the panels are brought to a workstation where the employees sand the peices with a 5" orbital sander to ensure a proper finish. This produces an aluminum dust which is emitted into the workspace creating a hazard to the employees heath due to the dust in the breathing space and the explosive nature of airborne aluminum dust. See below for a bullet point description of how the issue was solved.



Source Capture Vacuum System: Aluminum Dust

CHALLENGE:

Design a system for source capture dust extraction for aluminum dust

SOLUTION:

Eurovac I - 30-316CW High Vacuum Wet Scrubber

IMPACT:

Eliminated aluminum sanding dust from the breathing space of the workers

Eliminated any possible explosion due to aluminum dust

CHALLENGE

- Eliminate air bourne aluminum dust from sanding operation.
- Aluminum dust is explosive and therefore needs to be captured with the proper equipment to dissipate any possibility of explosion.

SOLUTION

- Eurovac converted the 5" sanders to vacuum ready tools.
- A central high vacuum wet scrubber (Model EI - 30-316C) was installed along with vacuum drops at each workers workbench.

IMPACT

- After the system was installed the dust was reduced to virtually nothing.
- The aluminum dust was captured at the source through the anti-static hose and galvanized tubing back to the central wet collector.
- All explosive issues were eliminated as the dust was mixed with water in the central system.

Specialists in Dust and Fume Extraction Systems

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