



CASE STUDY

DUST COLLECTION SYSTEM FOR MSU

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Project Overview

APPLICATION

Wood Dust Collection

END USER

Montana State University

SYSTEM PARTNER

AQC Dust Collection

Montana State University's Facilities Department relocated to a new building and needed a reliable, compliant dust collection system for a multi-room woodworking shop.



What were the problems

A custom dust collection system designed to support a multi-room university wood shop with safe, efficient airflow and future flexibility.

KEY REQUIREMENTS

- 01** Wood dust collection across multiple rooms and workstations
- 02** Multiple drops requiring precise airflow control
- 03** Efficient system layout to optimize performance
- 04** Compliance with safety and regulatory requirements
- 05** Flexibility for future system changes or expansions

Our Solution

S. Conley contacted AQC and was pleased with AQC's ability to address several project challenges, including the optimal placement of the Maxiflo-VC dust collector and associated components such as the explosion vent deflector. Once again, AQC demonstrated its ability to tackle complex applications and deliver practical, economical, and fully-compliant solutions. In addition, S. Conley selected **US Duct Quick-Clamp ductwork**, an excellent choice for its clean aesthetics, ease of installation, and flexibility for future system modifications or expansions.

➤ Engineered System Design

AQC addressed multiple project challenges, including optimal placement of the Maxiflo-VC Dust Collector and critical safety components such as the explosion vent deflector.

➤ Flexible Ductwork Solution

US Duct Quick-Clamp ductwork was selected for its clean aesthetics, fast installation, and flexibility for future system modifications or expansions.

Final Results

WHAT WE ACHIEVE

Fully-compliant dust collection system

Optimized placement of dust collector and safety components

Efficient airflow across multiple rooms and drops delivering 4,500 CFM

Clean, professional installation

Reduced installation time

Built-in flexibility for future system expansion

Conclusion

By partnering with AQC Dust Collection and selecting **US Duct Quick-Clamp ductwork**, Montana State University implemented a dust collection system that meets safety and compliance requirements while delivering efficient performance across a multi-room wood shop. The system's clean installation, optimized airflow, and flexible design provide long-term value, allowing the university to easily adapt or expand the system as facility needs change over time.

