

# Engineering Site Surveys

## Air Filtration Systems

- On-site equipment analysis
- Full assessment including 3-D CAD drawings & CFD modeling
- NFPA & explosion protection recommendations
- Energy efficient designs
- Filtration test lab to guarantee emission compliance
- Project management
- Turn-key installation
- Start-up & commissioning
- Recommended spare parts list
- Service



When it comes to finding the perfect air filtration system for your specific application, Schenck Process has over 40 years of experience in designing and managing dust collection projects for customers throughout the world.

Schenck Process provides engineering services to dust collection users that include on-site air filtration surveys. Program participants receive a full assessment of their current air filtration systems along with recommendations on improving efficiencies.

### Engineering Surveys

- On-site dust collection analysis
- Particle size analysis and emission testing
- Field measurement of dust producing equipment and plant layout
- Preliminary sketches of plant/equipment layout based on this analysis and current recommendation to include appropriate NFPA compliance
- Pictures, data, details and all pertinent information required to evaluate current conditions of dust systems

- Evaluate physical conditions of existing filters, fans and airlocks
- Evaluate existing ductwork layout and sizing, dust discharge design and pneumatic transfer system
- Consult with customer personnel to determine system rates, equipment functionality, problem areas and desired results from findings
- Provide quotation for new and upgraded solutions

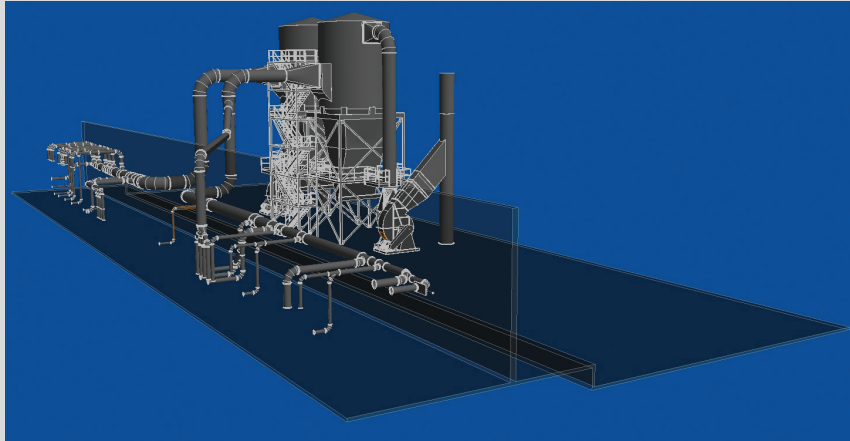
### Filtration Audit Team

- Industrial Ventilation Design Specialists
- 3D CAD Designer
- Application Specialists
- Explosion Protection Experts

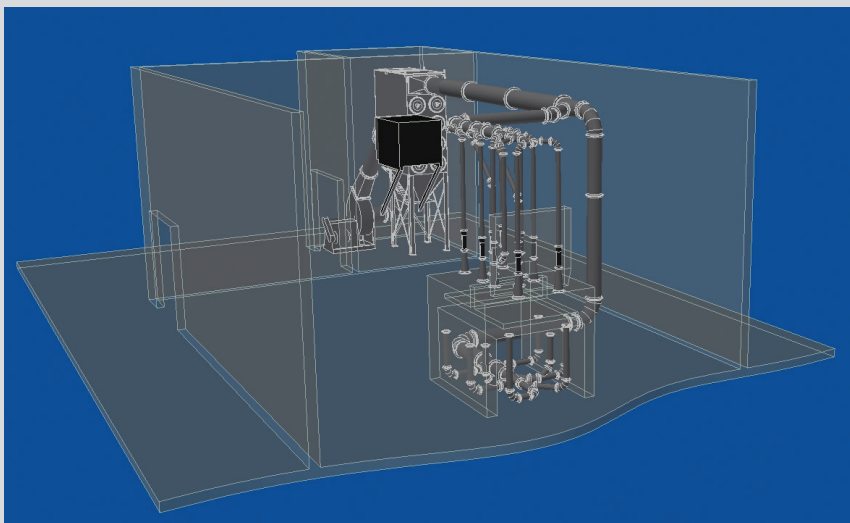
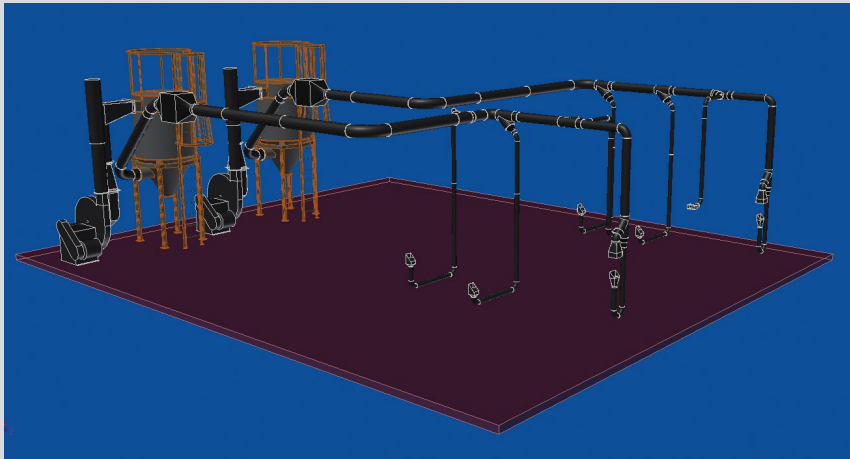
### Benefits

- Improve energy efficiencies
- Reduce the amount of required airflow
- Ensure employee health
- Manage plant expansion
- Meet NFPA compliance

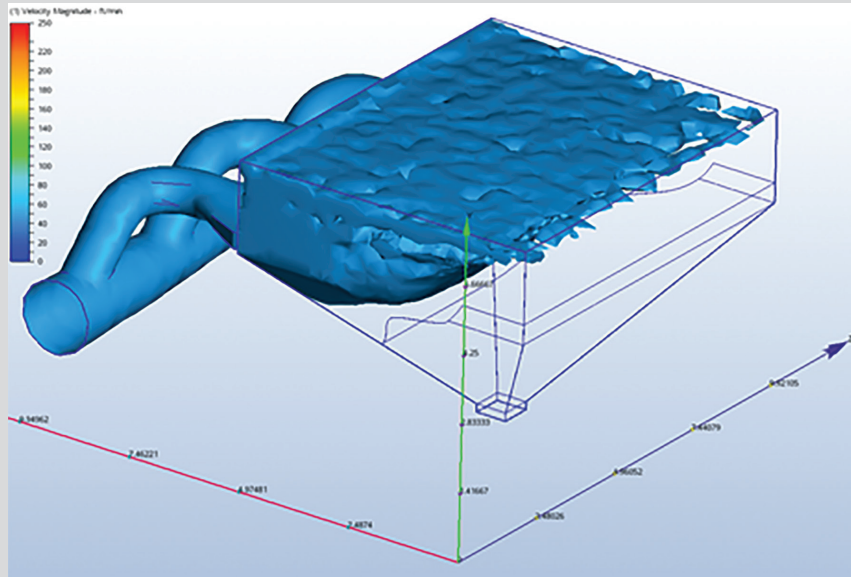
### 3-D CAD Drawings



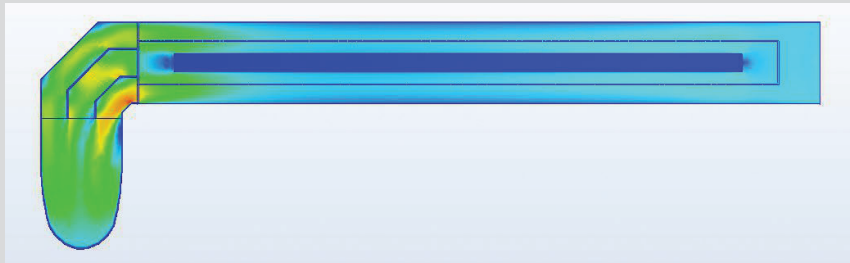
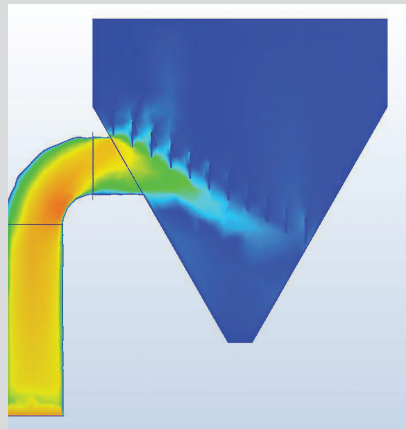
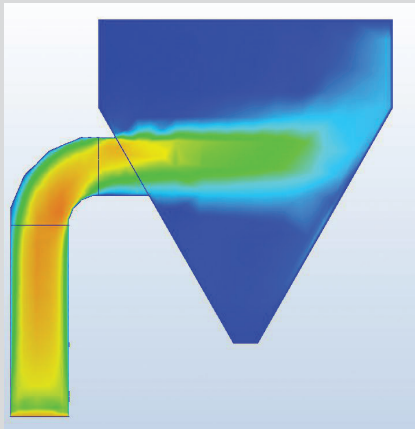
On completion of the site survey and analysis, Schenck Process uses 3-D modeling to design a solution for your facility. Our staff has years of experience to design an efficient system that will solve your dust control issues.



## CFD Modeling



Computer Fluid Dynamics (CFD) analysis is used to locate problems in the air stream and indicates where improvements can be made. Our expert team utilizes CFD analysis to verify hood, duct work, and filter design for energy efficient and robust systems.



### Project Management

Our staff of Project Managers adheres to a step by step process that is centered on providing the highest level of customer satisfaction. We believe in providing continual communication while working with you from initial design, through start up and commissioning to ongoing product support.

As part of our Project Management program we offer a wide range of engineering services that facilitate the optimum air filtration design and installation.

### Staff Highlights

Over 100 engineers on staff

- Project Managers and Engineers
- Process Control Engineers
- Equipment Design Engineers
- Quality Control Engineers
- Global Service Engineers

### Statistics

- Projects ranging from \$50K to \$22M
- Over 850 completed projects and \$400M in project revenue
- High customer retention rate
- 80% of projects come from repeat projects customers



### Schenck Process

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