

PROJECT PROFILE

Date: April, 2012

Engineer: Parsons Water and Infrastructure, Inc.

Owner: City of Austin

Location: Krieg Access Manhole, Austin Texas

ECS Job Number: 1616

Equipment: (2) 12,500 CFM Skid-mounted VX Radial Flow Systems

Details

In early 2012 ECS received a contract to design and supply (2) 12,500 CFM activated carbon systems. The VX radial was selected due to its high efficiency and small foot-print.



VX accessories

- High efficiency ECS sound enclosures
- Coconut-based carbon media with excellent organic and H₂S removal efficiencies
- 9' Diameter by 12' tall filament wound FRP vessels
- Epoxy-coated steel equipment skids
- No-loss SMACNA designed FRP high-velocity exhaust stacks
- FRP fans by NYB



All components of these two odor control systems were manufactured and assembled in the ECS manufacturing facility – with the exception of the control panel, fan and flexible connectors which were outsourced and assembled prior to delivery.

FRP components (vessel, transition, damper and sound enclosure) were manufactured using a class 1 flame retardant vinyl ester. Any surfaces exposed to the corrosive environment had a 100-mil corrosion liner applied.

High-quality and durable FRP fill-ports made carbon loading quick and easy. Two men were able to load the 9000 lbs of activated carbon in less than an hour.

The systems were installed and commissioned in less than two days.

These new VX carbon adsorbers represent the next generation of radial flow technology. A proprietary plenum-flow design moves airflow through the exterior space without having to rely on the carbon retention system or carbon itself to evenly distribute the air. The result is a properly utilized carbon bed and lower pressure-drop than conventional radial flows or even deep bed adsorbers.



ECS Offers the Following Complete Line of Odor Control Products

- V1 Single Bed
- V2 Dual-Bed
- VX Radial Flow
- X-Pac Chemical Scrubber
- Bio-Base Biofilter Media
- FRP Ductwork Systems
- AMCA Certified Dampers
- Grease Filter / Mist Eliminators
- Control Panels
- FRP Fans
- Activate Carbon Media
- FRP Chemical Storage Tanks
- FRP Hoods / Covers
- Sound Enclosures and Silencers
- Field Services



ECS is based out of a 100,000 sq/ft manufacturing / design facility located in central Texas. We offer a complete line of odor control equipment and services including carbon adsorbers, wet scrubbers, biofilters with the unique capability to manufacture and supply system components.

ECS ENVIRONMENTAL SOLUTIONS

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