

Odor Control Piping *Case History CCH3002*



Application: Hydrogen sulfide odor control located at a municipal waste treatment plant. Operates at 22,500 CFM, ambient temperature, and a static pressure of 13.5 psi.

Location: Tulsa Southside WWTP – Tulsa, Oklahoma

Product(s): 670 feet of 14”-42” fiberglass pipe pre-fabricated into shippable subassemblies, FRP dampers both manually operated and electrically actuated, rubber expansion joints, custom rectangular-to-round transition pieces, flange hardware.

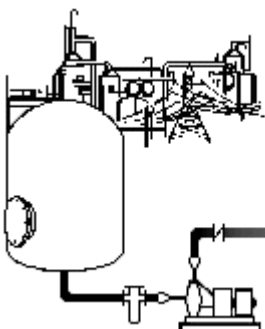
Features & Benefits: Fiberglass reinforced plastic duct and accessories are a cost-effective alternative to stainless steel. FRP’s high strength, durability, and corrosion resistance compared to traditional metals made it the material of choice for this application.

Why consider fiberglass?

- As much as 1/10th the weight of comparable metal systems can result in lower cost in structures and supports for pipe, valves, and accessories.
- Non-sacrificial corrosion liner means no scaling, rust, or reduction in wall thickness compared to metal, resulting in a larger cross sectional flow area over the life of the system.
- Smoother internal surface combined with larger pipe ID potentially means less pump or blower horsepower and therefore less power consumed to operate over the life of the system.
- Span capabilities can exceed those of metal and thermoplastics.
- End loads due to thermal expansion and contraction are significantly less than metal.
- Fiberglass pipe's very low modulus relative to steel results in significantly improved ability to handle expansion and contraction loads.
- Little to no maintenance required to maintain the system under normal operating conditions.
- Options available at the manufacturing stage for fire resistance, reduced smoke generation, and abrasion resistance.
- Wide range of resins and corrosion barriers allow for the use of fiberglass in many different service conditions and pressure ratings.
- Easily engineered for both above ground and below ground applications.
- Installation time of fiberglass can be as much as 35% of stainless steel for significant cost savings.
- Variety of finish colors available.

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