

High efficiency odor scrubbers

Resin	Fire retardant Vipel® K022-C bisphenol A, epoxy vinyl ester
Composite Applications	Cylindrical vessel for scrubber
Manufacturing Process	Hand lay-up
Diameter	2 feet (0.6 m)
Height	20 feet (6.1 m)
Chemical exposure	Hydrogen sulfide (H ₂ S)

For most processed foods, an inviting aroma is just as important as taste. But before some foods hit the table, processing steps can produce an unpleasant hydrogen sulfide (H₂S) odor that needs to be neutralized for the benefit of plant personnel and the neighboring environment.

Costly bio-filtration and other hydrogen sulfide-removal techniques can still leave tail gas remnants that still emit the chemical's distinctive "rotten egg" odor. For higher performance at a lower cost, Heil Process Equipment has developed a complete odor system that includes composite manufactured with fire-retardant Vipel® K022-C bisphenol A epoxy vinyl ester from AOC.

99% efficiencies

Each packaged scrubber system from Heil is designed to meet specific customer requirements. With efficiencies of 99% or greater the Heil packed scrubber system can be designed to meet any outlet requirement. In addition to



Because it is made with Vipel® K022-C vinyl ester, this emergency scrubber is designed to resist the corrosive effects of ammonia if ever called into action.

food processing, Heil systems are used in other processes, including kraft paper production and hydrocarbon refining, where H₂S emissions are an issue.

The Heil scrubber system includes controls, fittings and a packed column of high temperature thermoplastic or ceramic media designed to provide a high surface contact area. The scrubber system packing is stored in a vertical composite cylinder that is typically 2 feet (0.6 m) in diameter and 20 feet (6.1 m) high and has 10 inch (51 cm) diameter outlets and ducts.

High efficiency odor scrubbers, continued

Heil manufactures the cylinders by laying up fiber-glass roll products in Vipel K022-C vinyl ester, specified for its optimum balance of processing and performance characteristics. "We like working with K022 because it handles easily," commented Bob Hahn, General Manager for Heil Process Equipment. "The resin also has good caustic resistance and meets critical flame retardant requirements."

About Heil Process Equipment

Heil Process Equipment of Avon, OH, USA, is a premier designer and manufacturer of corrosion-resistant systems and components for handling corrosive fluids, mists and vapors. Customers specify complete Heil® Engineered Systems as well as special equipment components such as tanks, fans, scrubbers or stacks. For more information, contact Bob Hahn by phoning (440) 327-6051, ext. 224, faxing (440) 327-7088, or e-mailing info@heilprocessequipment.com.

About AOC

AOC is a leading global supplier of resins, gel coats, colorants, additives and synergistic systems for composites and cast polymers. AOC is the North American leader in resins for corrosion-resistant applications. For more information on AOC materials, services and commitment to the corrosion market sector, contact Ben Bogner by e-mailing bbogner@ioc-resins.com, by phone (630) 665-2675 or visit www.corrosionresins.com, the Internet's most user-friendly resource about corrosion-resistant composites.

