

# CaseHistory

## High efficiency odor scrubbers

<b>Market Segment:</b>	- Chemical Processing - Food Processing - Scrubbers
<b>Composite Applications:</b>	Cylindrical vessel for scrubber
<b>Resin:</b>	Vipel® K022-C bisphenol-A epoxy vinyl ester
<b>Manufacturing Processes:</b>	Hand lay-up
<b>Diameter:</b>	2 feet (0.6 m)
<b>Height:</b>	20 feet (6.1 m)
<b>Chemical exposure:</b>	Hydrogen sulfide (H <sub>2</sub> 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 (H<sub>2</sub>S) 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



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.

## High efficiency odor scrubbers, continued

of 99% or greater the Heil packed scrubber system can be designed to meet any outlet requirement. In addition to food processing, Heil systems are used in other processes, including kraft paper production and hydrocarbon refining, where H<sub>2</sub>S emissions are an issue.

The Heil scrubber system includes controls, fittings and a packed column of high temperature thermo-plastic 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.

Heil manufactures the cylinders by laying up fiberglass 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. More than 80% of Heil sales represent repeat business from satisfied customers who appreciate value, dependable performance and extended service life. 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](mailto:info@heilprocessequipment.com).

### About AOC

AOC is a leading global supplier of resins, gel coats, colorants, additives and synergistic material systems for composites and cast polymers. AOC knows technology, lives quality and delivers service better than any other composites resin supplier. For more information, e-mail [corrosionresins@aoc-resins.com](mailto:corrosionresins@aoc-resins.com), phone (901) 854-2800 or go to [www.CorrosionResins.com](http://www.CorrosionResins.com).

