

PRODUCTS AT WORK

VERTICAL WET SCRUBBER SYSTEM

PT-500 Series Scrubber Controls Fermentation Tank Odors at Pharmaceutical Manufacturing Facility

Background

Baxter Healthcare, Jayuya, Puerto Rico, faced new air regulations to treat odors and particulate emitted from a fermentation process used in the manufacture of antibiotics. The primary odor constituents were hydrogen sulfide (H₂S) and dimethyldisulfide (DMDS).

Results

Duall recommended a Series PT-510 skid mounted, scrubber system to solve this emission problem. Wet scrubbing was selected as the preferred control technology for several important reasons:

- Proven high efficiency odor removal over a wide range of compounds.
- Versatile design that allows for handling of mixed air streams with variable inlet loadings and particulates.
- Economical capital and operating costs.

The full scale system utilizes proprietary chemical addition to consistently reduce average inlet concentrations by over 99.6%. The scrubber system, including interconnecting duct, exhaust fan, and stack, features DUALLast™ construction (fiberglass with inner PVC liner) to provide maximum corrosion resistance and structural integrity.

System accessories include fiberglass recycle pumps, painted steel platform, chemical storage tanks, and control panel with starters and alarms.

Present Status

This system was installed in October of 1996 and has operated as designed since start up in January 1997.



Application: H₂S and DMDS

End User: Baxter Healthcare

Reference: 5185-96

**PT-510 Wet Scrubbers
DUALLast™
FRP/PVC Construction**



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