

## PHOENIX<sup>®</sup> H<sub>2</sub>S REMOVAL SYSTEM

### THE SOLUTION TO HYDROGEN SULFIDE ODORS

Continental Carbon Group's PHOENIX is a state-of-the-art hydrogen sulfide (H<sub>2</sub>S) removal system. PHOENIX is simply the most effective means of removing airborne H<sub>2</sub>S, the most prevalent odorous compound present in wastewater treatment. PHOENIX radial flow canisters, using high capacity carbon combined with our patented segmented reactor design, produce a system that can continuously remove up to 50 ppm of H<sub>2</sub>S with 99% average efficiency.

### THE PHOENIX PROCESS

The PHOENIX system works by directing foul air down through a series of chambers containing the radial flow carbon canisters. As air passes through the radial carbon beds, the hydrogen sulfide is catalytically converted to sulfuric acid (H<sub>2</sub>SO<sub>4</sub>). The loosely adsorbed and highly soluble sulfuric acid is then washed off with water during the automated regeneration process, thereby restoring the carbon's capacity for H<sub>2</sub>S. The system's segmented design allows one chamber to be water-regenerated while the rest of the system continues to treat H<sub>2</sub>S. This delivers a system that has virtually no treatment downtime.



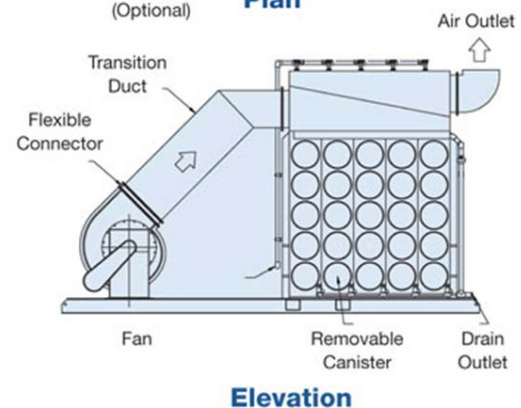
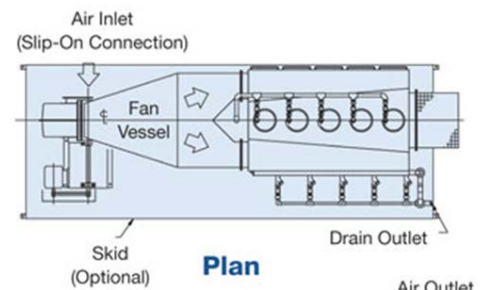
Overall System Air Flow    Individual Canister View    Cyclical Water Wash Restores (H<sub>2</sub>S) Capacity

### PHOENIX Standard Features:

- Reactor vessel, polypropylene construction with UV inhibitor
- Set of radial carbon canisters
- Automatic water regeneration package
- FRP fan with TEFC motor
- Transition ductwork
- Grease filter/mist eliminator (GF/ME)
- Pressure differential indicator

### Optional Features:

- Sound enclosure for fan
- Explosion-proof package
- Flow control damper
- Fan motor starter/control panel with mounting stand
- Skid-mounting (up to P-10000 system)



### For More Information:

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