

PHOENIX[®] H₂S Removal System



The Solution to Hydrogen Sulfide Odors

Calgon Carbon Corporation's PHOENIX[®] is a state-of-the-art hydrogen sulfide (H₂S) removal system. PHOENIX[®] is simply the most effective means of removing airborne H₂S, the most prevalent odorous compound present in wastewater treatment.

PHOENIX[®] radial flow canisters, using our CENTAUR[®] HP carbon combined with our patented segmented reactor design, produce a system that can continuously remove up to 50 ppm of H₂S with 99% average efficiency.



Overall System Air Flow

Individual Canister View

Cyclical Water Wash
Restores H₂S Capacity

The PHOENIX[®] Process

The PHOENIX[®] system works by directing the foul air down through a series of chambers containing the radial flow carbon canisters. As the air passes through the radial carbon beds, the H₂S is catalytically converted to H₂SO₄. The loosely adsorbed and highly water soluble H₂SO₄ is then washed off with water during the automated water regeneration process, thereby restoring the carbon's capacity for H₂S. The system's segmented design allows one chamber to be water regenerated while the rest of the system continues to treat H₂S. This delivers a system that has virtually no treatment downtime.

PHOENIX[®] Standard Features

- PHOENIX[®] reactor vessel, polypropylene construction with UV inhibitor
- Set of radial carbon canisters
- Automatic water regeneration package, NEMA 4X
- FRP fan with 480 V/3phase/60 Hz TEFC motor
- Transition ductwork
- Flow control damper
- Grease filter/mist eliminator
- Pressure differential indicator

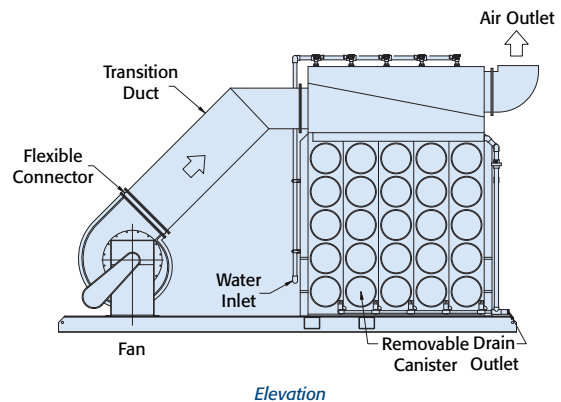
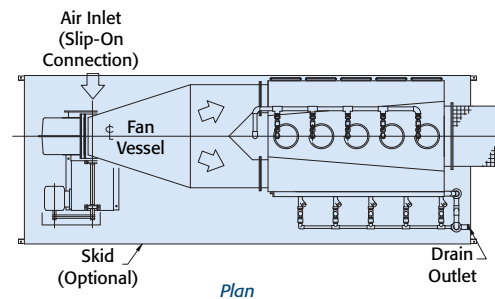
Optional Features

- Sound attenuation
- Explosion-proof package
- Fan motor starter/control panel with mounting stand
- Skid mounting (up to P-10000 model)



Applications

PHOENIX[®] is ideally suited for municipal wastewater collection system applications such as pump stations and lift stations, as well as wastewater treatment plant processes such as headworks, sludge thickeners, and belt press rooms.



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