



Sweet Solutions.™



MERICHEM COMPANY



LO-CAT[®] PROCESS FOR SULFUR RECOVERY/ODOR CONTROL

The LO-CAT[®] Hydrogen Sulfide Oxidation System provides economical H₂S removal to solve odor problems quickly and effectively.

LO-CAT achieves H₂S removal efficiencies exceeding 98%. The system also eliminates costly once-through chemicals, offers unique mobile bed contacting material, and reduces operating costs. Turnkey systems from specification to installation can be developed to meet stringent schedules. We also offer technical service and support.

LO-CAT systems provide proven, cost-effective solutions to H₂S odor problems for a wide range of air flows and H₂S concentrations.

Systems utilize a unique mobile bed contacting material which eliminates plugging and cleaning problems found in other chemical scrubbers.

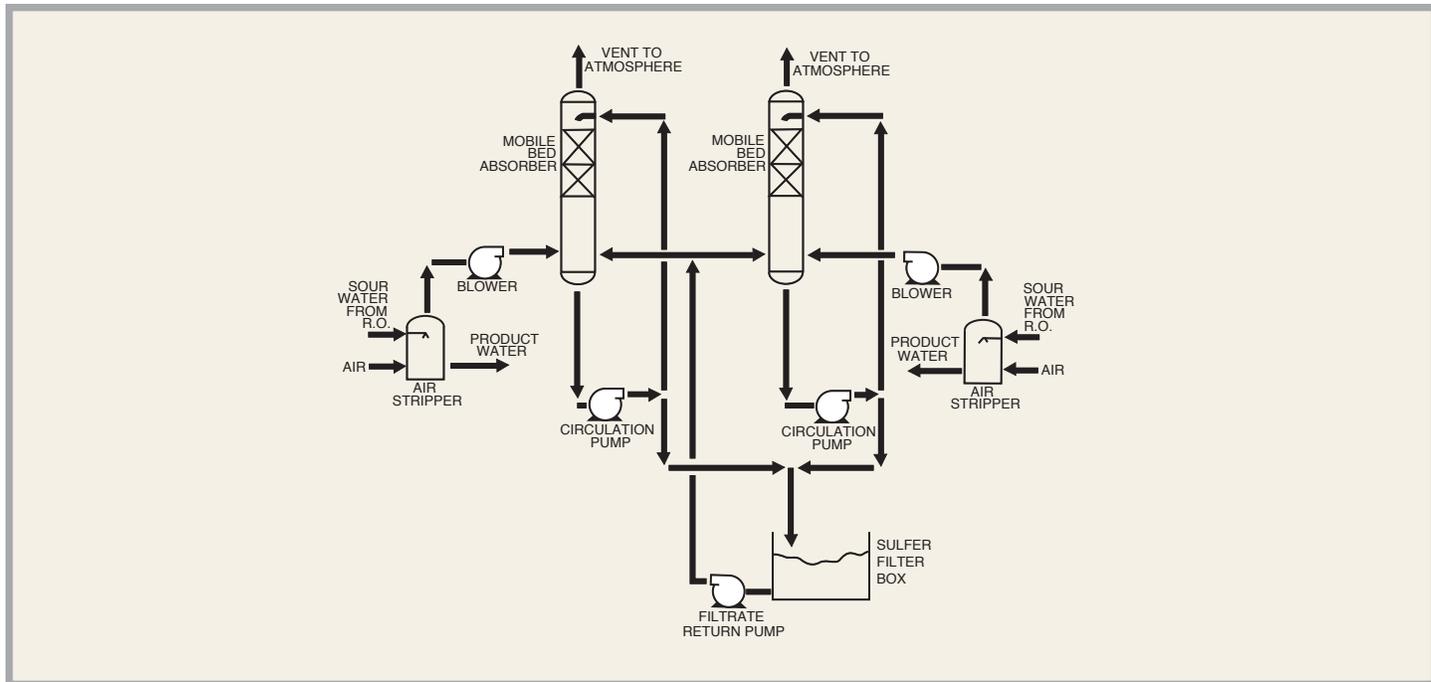
Chemical costs with LO-CAT systems are the lowest of any odor control process—5 to 10 times lower, in fact. It regenerates and reuses dual chelated iron catalyst material, rather than requiring expensive once-through chemicals.

The LO-CAT process also eliminates liquid blow-down with salt or spent caustic, as well as solid absorbent that may require special handling or additional treatment. Instead, it produces a sulfur cake which is readily acceptable for landfill applications.

LO-CAT[®] PROCESS

FOR SULFUR RECOVERY/ODOR CONTROL

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LO-CAT[®] Process

Typical applications include municipal and industrial wastewater treatment, water treatment, manufacturing plants, chemical processing, and food processing.

The LO-CAT[®] process offers low-cost, high-efficiency H₂S removal.

The way this system achieves high removal efficiency without costly chemicals, can be simply stated:



Note that the oxidant is oxygen—available free of charge from the air stream being treated.

So the only chemical consumed for you to replace is the amount of chelated iron lost in the sulfur removal process; plus a small caustic addition, needed to maintain absorber pH.

In short, LO-CAT delivers the efficient control you need for odor control from wastewater and other operations, reverse osmosis (RO) plants to sweeten gas from air stripper exhaust streams, or from degasification of RO effluent. What's more, its sulfur filtration system can produce sulfur cake suitable for sanitary landfill. For full details on advanced generation LO-CAT systems, contact us now.

Turnkey system services include cost/ benefit evaluation, custom-tailored system design, vessel fabrication, assembly, testing, system installation, training, and ongoing service support.