



MV TECHNOLOGIES

Engineered to Guarantee Results

H₂S OdorFilter™ for Petrochemical Processes

Desalter Vapors

Coker Feed Tanks

Hot Asphalt Tanks

Loading/Unloading:

- Trucks
- Barges
- Railcars

Asphalt Blending Units

MV Technologies OdorFilter™ systems neutralize H₂S vapors, sulfur-based odors and visible blue/grey smoke – enabling customers to cost-effectively mitigate public odor complaints and EH&S concerns.

What sets MV Technologies apart is how we integrate our extensive engineering and field experience to custom-match proven technologies to your unique requirements, delivering maximum system performance.



Proven H₂S Removal Solutions

OdorFilter™ systems are a proven, high-impact solution for the removal of H₂S vapors, sulfur-based odors and visible blue/grey smoke.

Far superior in cost performance to using activated carbon alone – OdorFilter™ systems are engineered to optimize a single media or combination of media for maximum efficiency, safety and results.

Case Studies

MV Technologies OdorFilter™ systems are in use at petrochemical plants and processing facilities for the removal of H₂S and odors emitted during procedures such as transferring refined product from storage tanks to trucks, barges or railcars. Configurations vary based on application and can be skid or trailer mounted or as simple as an over-pack drum. MV also designs and supplies dedicated blowers to work with existing vapor recovery systems.



Project: Asphalt Storage Tanks Odor Control System

Application: Prompted by odor complaints, an asphalt refinery approached MV Technologies to replace its existing dry scrubber technology and install a new system to remove H₂S ~100 ppm (with spikes to 3,000 ppm) and odors from the head space of asphalt storage tanks.

MV Solution: A single-vessel OdorFilter™ system to treat 3,000 scfm. The design utilizes MV's BAM™ iron sponge media, includes a skid, vapor collection and recirculation system and granular media based polisher.



Project: Asphalt Plant Tank Off-gas and Barge Offloading

Application: An asphalt refinery approached MV Technologies to design a system to collect and treat off-gas from 12 asphalt storage tanks and barge offloading. The system is required to treat a total flow of 1,300-1,500 scfm with average H₂S concentration of 100 ppmv (and temporary spikes of ~ 3,000 ppmv).

MV Solution: A single-vessel OdorFilter utilizing BAM™ media and 1,300 scfm capacity.



Project: Truck Rack Odor Abatement System

Application: An asphalt refinery requested an odor control system capable of treating truck loading off-gas for up to 4 bays, simultaneously. The location required a confined footprint solution to treat the gas flow of 600 scfm with an H₂S inlet concentration ~100 ppmv (and temporary spikes of ~3,000 ppmv).

MV Solution: A single-vessel configuration designed for use with BAM™ media. System designed for a bed life of approx. 1-year when operated at an average 600 scfm flow rate and 100 ppm H₂S inlet concentration.



Project: Desalter Off-gas H₂S Removal Unit w/ Polisher

Application: An asphalt refinery requested a system to remove ~100 ppm of H₂S gas from the desalter process, prior to activated carbon.

MV Solution: A lead/lag H₂S removal system to treat vapors using BAM™ media. Design utilizes blowers to pull vapors from the system through an activated carbon polisher prior to venting to atmosphere.