

SAAF™ Deep Bed Scrubber-V

GAS PHASE SYSTEMS



Designed for

- Operations with high concentrations of gas-phase contaminants.
- Facilities with limited floor space or space conscious operations.
- Industrial, commercial, and mission-critical environments, such as:
 - Data Centers
 - EV Battery Manufacturing
 - Pulp & Paper
 - Oil & Gas
 - Wastewater Operations
 - Emergency Safe Rooms
 - Garbage Depots
 - Incineration Sites
 - Process Areas
 - Wet Wells
 - Other Highly Polluted Environments

Benefits

- **Improves Air Quality** by removing toxic gases and odors from heavily polluted environments.
- **Protects People and Equipment** in critical areas like data centers, battery plants, and emergency safe rooms.
- **Reduces Maintenance and Replacement Costs** with long-lasting service life built to handle high levels of contamination.
- **Saves Space** with a vertical design that fits into tight industrial or commercial spaces.
- **Integrates** with other AAF filtration technologies for complete air protection.

Powerful Air Purification Backed by AAF Expertise

The SAAF Deep Bed Scrubber-V from AAF is a high-performance vertical air filtration system engineered for advanced gas-phase contaminant removal. Combining particulate and gas-phase technologies, it forms part of a total AAF filtration solution. Utilizing thick beds of activated carbon and specialty impregnated media, it eliminates harmful gases, odors, and pollutants in even the most demanding environments. Its compact vertical design saves valuable floor space and is available with an internal fan and a wide range of sizes and configurations to fit diverse needs.

Engineered for the Toughest Air Quality Challenges

Trusted in mission-critical and industrial environments, the SAAF Deep Bed Scrubber-V delivers reliable performance where air quality is critical. Designed for high contaminant concentrations, it performs exceptionally in spaces with heavy particulate and molecular contaminant loads. Each unit features a media bed designed to contain a deep layer (typically 1 to 3 feet) of common adsorbents. AAF's proprietary blends of activated carbon, zeolites, alumina, and specialty carbons ensure broad-spectrum contaminant removal.

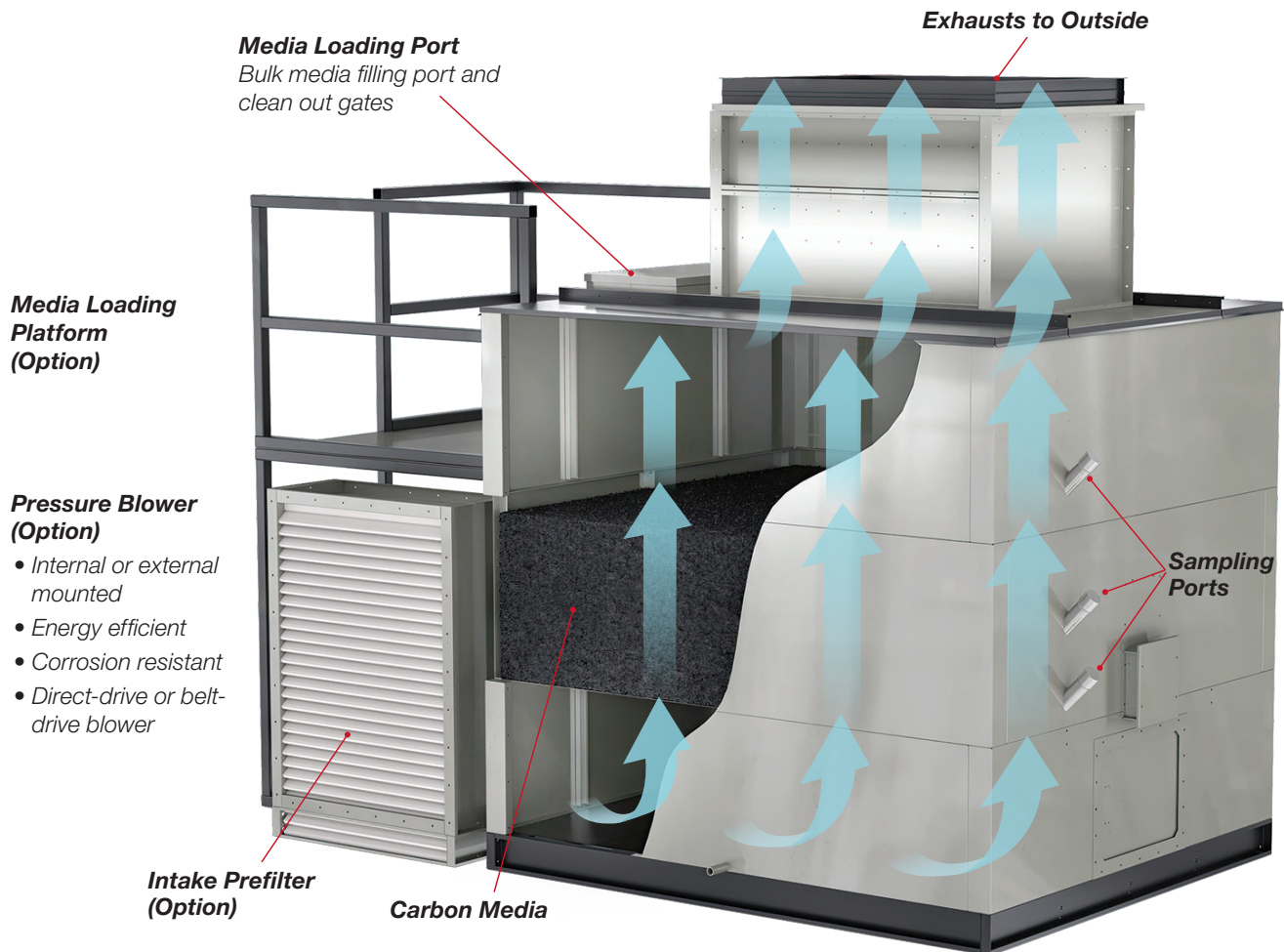
Media Applications

Media Type	Impregnant	Target Gases	Typical Applications
SAAFOxidant	KMnO ₄ (Potassium Permanganate)	H ₂ S, SO ₂ , Formaldehyde, Ethylene, NO _x	Refineries, Pulp and Paper, Labs, Wastewater
SAAFCarb	Virgin Activated Carbon	VOCs, Ozone, Hydrocarbons, Nuisance Odors	Cooking, IAQ, Painting, Outdoor Air
SAAFCarb MA	KOH (Potassium Hydroxide)	H ₂ S, SO ₂ , NO _x	Pulp and Paper, Wastewater, Exhaust
SAAFCarb MB	H ₃ PO ₄ (Phosphoric Acid)	NH ₃ , Amines	Fertilizer Plants, Petrochemical Plants
SAAFCarb MC	Na ₂ S ₂ O ₃ (Sodium Thiosulfate)	Cl ₂	Pulp and Paper, Wastewater, Water Treatment
SAAFCarb MA.HT	MgO (Magnesium Oxide)	H ₂ S, SO ₂ , Hydrocarbons	Pulp and Paper, Wastewater
SAAFBlend GP	50/50 Blend	SAAFCarb and SAAFOxidant	Helipad, Exhaust, Refineries, Urban Outdoor Air
SAAFBlend CB	80/20 Blend	SAAFCarb and SAAFOxidant	Cannabis Odors

SAAF™ Deep Bed Scrubber-V

Clean Air, Lower Costs, Reliable Results

Built for industrial and commercial applications, the SAAF Deep Bed Scrubber-V offers high-efficiency VOC removal and targets hazardous gases like formaldehyde, hydrogen sulfide, and mercury. It provides longer service life, greater contaminant capacity, and consistent performance during concentration spikes. With the flexibility to adapt to changing environmental conditions, it delivers cleaner air, safer operations, and lower cost of ownership, all backed by AAF's global air filtration expertise.



Scrubbers use solid materials that attract and hold contaminants on their surface. As air passes from the bottom of the unit through the media, contaminants stick to the surface of the carbon pellets.

Deep Bed Scrubber shown with customized platform, blower fan and prefilter options.



9920 Corporate Campus Drive, Suite 2200, Louisville, KY 40223-5690
888.223.2003 | aafintl.com

AAF International has a policy of continuous product research and improvement. We reserve the right to change design and specifications without notice.

©2025 AAF International and its affiliated companies.

ISO Certified Firm

GPS-1-213 5/25