

PRODUCT BULLETIN

EMERGENCY GAS SCRUBBER

The Purafil Emergency Gas Scrubber (EGS) is designed to control catastrophic gas releases from 68 kg (150 lb.) to over 2,727 kg (6,000 lb.) while mitigating any risk to human lives in the surrounding communities. This scrubber prevents toxic chlorine (Cl_2), sulfur dioxide (SO_2), or ammonia (NH_3) gas releases, resulting from a failure in the storage cylinder or system, by providing immediate removal of leaking gas. It is built for indoor and outdoor installation and it requires minimal maintenance.

Instead of using toxic liquid caustic to neutralize gases, the EGS uses dry-scrubbing media. If the media is properly installed and there are no releases of gas into the EGS, you will not need to replace the media. Purafil offers free media life analysis to ensure optimal media and system performance.

Purafil manufactures three formulations for the EGS:

- CSO™ to remove Cl_2 and SO_2
- Chlorosorb® Ultra to remove Cl_2
- Puracarb® AM to remove NH_3

Whether new or spent, all three media are:

- non-toxic, non-hazardous, and landfill disposable

Convert to a Dry Scrubber:

Dry scrubbers have several advantages over conventional wet scrubbers. For instance, dry scrubbers require significantly less maintenance than wet scrubbers. They have just one moving part - a blower. No need to hassle with pumps, spray nozzles, or pH controls! Dry scrubbers are much safer, too. Instead of using toxic liquid caustic, they neutralize gases with non-toxic dry-scrubbing media. Purafil media permanently transform gases into harmless solids. Unlike liquid caustic, dry-scrubbing media are immediately available for instantaneous reaction, regardless of the load rate. With wet scrubbers, the amount of gas fed into the scrubber has to be known or measured. Purafil's EGS design can provide discharge concentrations as much as 100x lower than representative wet scrubbers. Call Purafil to help you transform your caustic wet scrubber to a safe dry scrubber with our patented retrofit plan.



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Standard Features:

- Safely neutralizes toxic chlorine and other vapors with dry scrubbing media
- Instantaneous, irreversible chemical reaction
- Spent media is landfill-disposable
- Minimal maintenance
- Meets requirements of the U.S. Uniform Fire Code, Article 80
- Meets requirements of the U.S. EPA Emergency Management Program

Specifications:

- Construction Materials: Fiberglass or aluminum
- Dimensions: Sized for 150-pound, 1, 2, or 3-ton releases
 - Operating Weight - 1,043 kg (2,300 lb. to 26,308 kg (58,000 lb.)
 - Width - 2.4 m (8 ft.) to 3.7 m (12 ft.)
 - Depth - 1.2 m (4 ft.) to 3.4 m (11 ft.)
 - Height - 2.1 m (7 ft.) to 5.8 m (19 ft.)
- Air Flow Range: 1,190 cmh (700 cfm) to 18,700 cmh (11,000 cfm)
- Power Output Range: 5 hp to 75 hp
- Media Volume: 1 m³ (36 ft.³) to 32.9 m³ (1,160 ft.³)