

high purity ~ simple package ~ proven reliability

BgPur™

BioGas Purification System

Reduce sulfur dioxide emissions, equipment corrosion, and fouling by removing hydrogen sulfide (H₂S) from biogas. Eco-Tec's H₂S removal system offers cost savings and greater energy recovery for use in multiple applications.

What are the Applications?

Biogas is a mixture of methane (CH₄), carbon dioxide (CO₂) and water. It is usually contaminated with highly corrosive levels of H₂S. Eco-Tec provides a biogas scrubbing process for the removal of H₂S and particulate matter from biogas as it is produced. Using a patented, high efficiency gas-liquid contacting process, H₂S is absorbed and the gas is purified for reuse in power generation, cogeneration, and heating applications.

The following industry applications can easily incorporate Eco-Tec's product series for biogas purification:

- Municipal wastewater treatment plants
- Industrial wastewater treatment plants
- Industrial processing
- Pulp and paper mills
- Food and beverage processing
- Meat rendering plants
- Landfill gas
- Agriculture

Why use Eco-Tec's BgPur™ System?

The system has proven, consistent performance with each of its key features:

- *Consistent Purification*
- *Flexible Design*
- *Small Footprint*
- *Automatic, Robust Design*
- *Simple Operation*
- *Economical Operation*
- *Environmentally Friendly*



Commissioned in 2005, the GRD Minproc BioGas Purification System handles H₂S levels ranging from 4000 - 5000 ppmv.

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Features	Benefits
Consistent Purification	The system consistently removes 99+% of the H ₂ S from biogas with a patented gas-liquid contactor.
Flexible Design	It is completely scalable, making it ideal for easy integration into facility processes.
Small Footprint	The system is skid-mounted and compact with a small footprint.
Automatic, Robust Design	The system is configured with automatic controls that adjust the system to respond to changes in the gas flow rate and H ₂ S level fluctuations to optimize consistent performance. Resists sulfur plugging and foaming problems.
Simple Operation	The patented process is simple to install, easy to operate and is fully automatic, all of which reduce operations and maintenance costs.
Economical Operation	The system requires minimal energy resulting in lower costs.
Environmentally Friendly	Agricultural chemicals used (absorbent), agricultural by-product produced, minimal energy consumption, maximum energy recovery.

Contact Eco-Tec For More Details.

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