



Sorpt.X SB

Biogas Purification Systems

With increased interest in the renewable fuels industry, companies are looking to turn their waste stream into a revenue stream by recovering methane. The Dürr Megtec biogas purification system uses only water to remove H_2S , CO_2 , and light siloxanes from digester, wastewater treatment or other biogas streams. Designed to capture more than 98.5% of the methane and purify it to pipeline quality natural gas, the system uses a self-regenerating desiccant dryer to dry the product gas to a dew point of $-40^\circ F$.

Dürr Megtec water scrubbing systems include a high-pressure packed stainless steel media bed, chemical-free operation, and air stripper to remove CO_2 and H_2S with minimal methane loss. To reduce water usage, the system is regenerative, as opposed to a single-pass system.

HIGHLIGHTS



[Minimal methane loss](#)

[Skid-mounted design](#)

[Full automation](#)

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FAST, SIMPLE INSTALLATION

Each biogas purification system is skid mounted and modular in design, which requires a smaller operational footprint and allows greater integration flexibility at the application site. Stainless steel wetted system components are factory assembled and tested to performance parameters.

System components are packaged, pre-assembled, pre-wired, pre-piped and tested to the extent possible at the factory. This shortens the installation time frame and helps ensure an effective startup. We can also provide full turnkey installation, startup services and preventive maintenance, and fulfill future service/parts requirements.

OPERATIONAL RELIABILITY

The system practically runs itself. An advanced electronic control system automatically optimizes the system for high gas yield.

ADVANCED TELEMETRY

Each system is also equipped with a virtual private network (VPN) for trending, monitoring and remote diagnostics. A wide range of performance information is available to the operator for analysis, troubleshooting and optimization. The user interface is intuitive and easy to use.

LONG-LASTING, COST EFFECTIVE PERFORMANCE

Designed specifically for the harsh environment, each system incorporates corrosion-resistant materials. Combined with its low operating costs, Dürr Megtec is able to provide a reliable system that is truly cost effective.

OPERATIONAL RELIABILITY AND ADVANCED TELEMETRY

An advanced electronic control system automatically optimizes the system for peak performance. In the event it is needed the system is also equipped with a VPN for trending, monitoring and remote diagnostics.



Agricultural digester

H₂S TREATMENT

Dürr Megtec has partnered world class developers of two systems for H₂S removal. The collaboration enables Dürr Megtec to provide a complete biogas purification system that meets all of its customers' design requirements.

BGPUR – LIQUID SYSTEM (NON BIOLOGIC)

The BgPur from Eco-Tec is capable of handling a wide (and high) range of H₂S concentrations with no consumable media or packing. The system removes H₂S in the form of an elemental sulfur cake that is automatically washed, dried and discharged from a filter press.

H₂SPLUS – MEDIA BASED H₂S REMOVAL

The H₂SPLUS system from MV Technologies is a combination of high performance, BAM iron sponge media and a proven design to provide cost effective and consistent H₂S removal.



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