BLENDING SKID



PREFERRED
UTILITIES MFG CORPORATION
"People. Products. Results."

FUEL GAS BLENDING SKIDS – MAXIMIZE YOUR BIOGAS INVESTMENT

Preferred's Fuel Gas Blending Skids are engineered to efficiently blend biogas with natural gas for use in boilers and generators—helping facilities optimize renewable energy usage while reducing natural gas consumption and costs.

These systems are ideal for operations with an existing supply of biogas, such as digester or landfill gas. By prioritizing the use of "free gas," our blending skids enable boiler and generator owners to maximize the return on their biogas investment. Designed with precision, our systems account for the natural variability in fuel quality and Btu content.

They are built to handle the dynamic characteristics of biogas, including fluctuating energy values and the unique requirements of gas engine applications. Cold start conditions are also considered to ensure reliable, balanced, and efficient operation at all times.

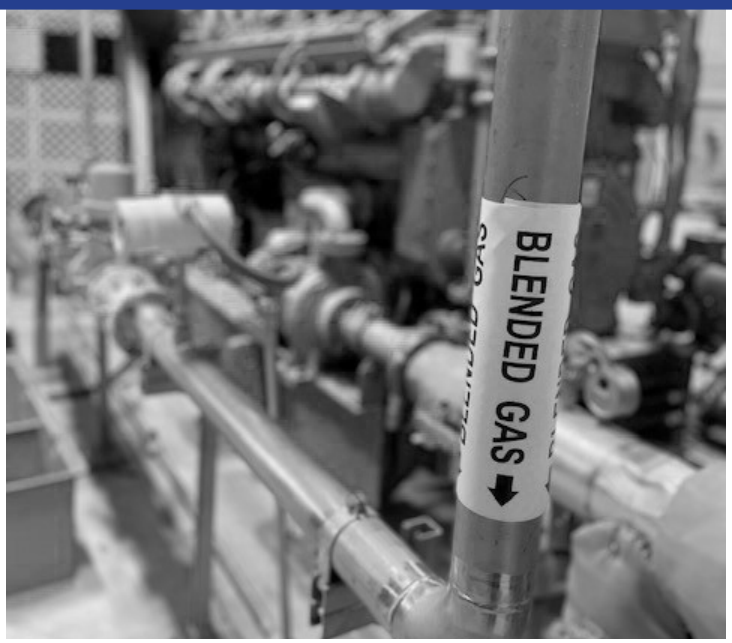
Whether your goal is to reduce fuel costs, lower emissions, or increase energy resilience, Preferred's fuel gas blending systems provide the performance and flexibility you need.



TYPES OF APPLICATIONS

IN INDUSTRIAL SETTINGS, BLENDING SKIDS ARE USED TO MANAGE AND OPTIMIZE FUEL SUPPLIES, PARTICULARLY WHEN DIFFERENT TYPES OF FUELS ARE AVAILABLE.

- POWER GENERATION
- WASTE MANAGEMENT
- CHEMICAL PROCESSING
- PETROCHEMICAL INDUSTRY
- FOOD AND BEVERAGE
- PHARMACEUTICALS
- WATER TREATMENT PLANTS



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FEATURES

Supply Pressure Transmitters: Installed at the inlet of both the biogas and natural gas trains, these transmitters confirm gas availability and may also pressure-compensate the gas flow meters.

Gas Flow Meters: Pressure and temperature-compensated flow meters provide critical input to the control system, ensuring accurate measurement of gas flow rates.

Flow Control Valves: Electric or pneumatic flow control valves regulate the flows of biogas and natural gas, achieving the desired gas mixture with precision.

Discharge Pressure Transmitter: This component helps maintain the discharge pressure of the blended gas within acceptable limits.

Wobbe Index Analyzer: To ensure proper combustion, a Wobbe Index or Btu analyzer measures the heating value of the fuel, especially when using specific combinations of biogas fuels and fired devices.

Controls: The system is managed by a Preferred Combustion Controller (PCC4), with color touchscreens providing an intuitive interface for operators and service technicians.

Materials of Construction: Natural gas trains are typically constructed from carbon steel valves and piping, while biogas trains use stainless steel based on biogas composition. Electrical enclosures are built depending on local requirements.

OVERIEW

Maximizing Free Gas Use: Boiler and generator owners utilizing biogas or opportunity fuels—such as digester gas, landfill gas, hydrogen, or syngas—strive to maximize the use of their “free gas” to reduce fuel costs and increase system efficiency

Optimized Blending Skids: Preferred’s gas blending skids are specifically designed to optimize the use of biogas.

Real-Time Monitoring: Our skids continuously monitor the availability and flow of biogas to ensure efficient usage.

Low Demand Operation: During low demand periods, the skids utilize as much biogas as possible.

Load Management: When the load exceeds the available biogas supply, the blending skid automatically integrates natural gas to meet the demand.

Controlled Blending: The blending process is meticulously controlled to manage fuel variability and quality..



ALSO AVAILABLE:

Fuel Oil Handling Systems
Fuel Gas Blending Systems
SCADA & SMART Monitoring Systems
Auxiliary Balance of Plant Controls
Instrumentation
Nuclear Outage Solutions

MADE IN THE USA

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