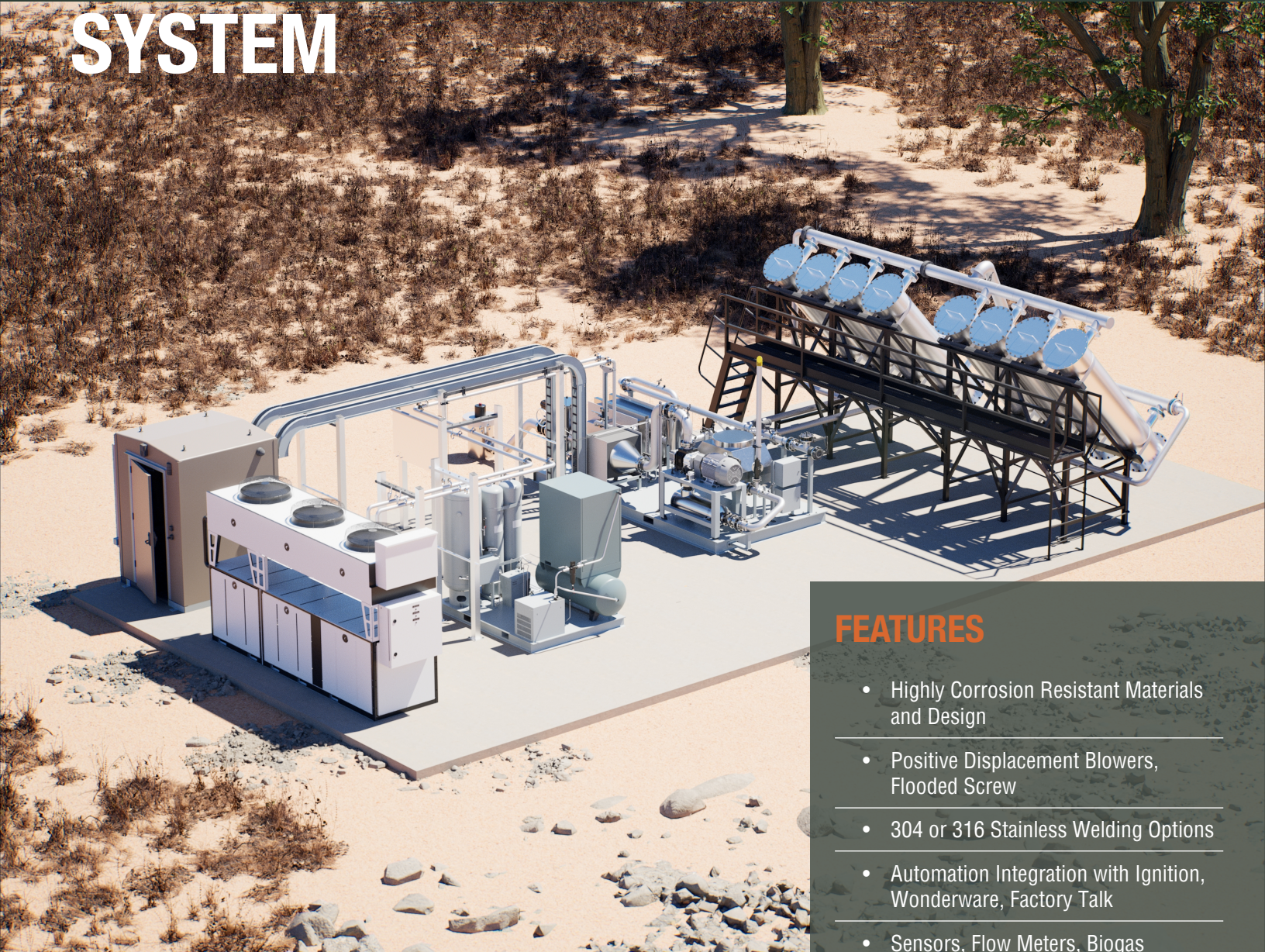


# GAS PRE-CONDITIONING SYSTEM

**energy**  
INNOVATIONS



## FEATURES

- Highly Corrosion Resistant Materials and Design
- Positive Displacement Blowers, Flooded Screw
- 304 or 316 Stainless Welding Options
- Automation Integration with Ignition, Wonderware, Factory Talk
- Sensors, Flow Meters, Biogas Analyzer Options
- Wireless Communication Options for Remote Operations
- Equipment Comes Plug and Play Ready
- Built-In PLC if Desired
- Emergency Stop Built-In
- Pre-Tested and Calibrated
- Certified Welders / Quality Craftmanship

Simple, yet effective conditioning blowers and compressors range from 1-150 PSI. Filter, dehydrate and move your biogas. These units can be placed at the beginning of your process, and can stand alone, integrated with on-site SCADA, or paired with our pre-made control room for quick, simple and effective transportation of your biogas.

Other options include biogas analyzer to provide O<sub>2</sub>, CH<sub>4</sub>, H<sub>2</sub>S and CO<sub>2</sub> readings, flow meters, 95% pure O<sub>2</sub> injection and H<sub>2</sub>S removal vessels. Systems are pre-fabricated, pre-tested, and ready to ensure accuracy and safety. We design, fabricate, install and commission in house to ensure a smooth and reliable process.



## TECHNICAL SPECIFICATIONS

DESIGN METRICS	Flow Range	Up to 10,000 SCFM
	Pressure	Up to 200 psig
	Biogas inlet Temperature	20°F - 130°F
	Ambient Temperature Range	Up to 110°F
	H <sub>2</sub> S Range	0-12,000 PPM
	Elevation Range	0-6,000 ft ASL
	Inlet Capability	Direct Draw from Digester   No Boosters or Pre-Filtration Required
	Filteration	0.3 micron Coalescing + 10 micron Particulate Filters
	Environment Standards	XP   Class 1/Division 1   Class 1/Division 2 - Group D
	Dew Point	<40°F
PHYSICAL	Dimensions	Site Dependent
	Weight	<10,000 lbs
	Site Requirements	Level Concrete Slab   480V 3PH Power

## PARTNERS & VENDORS

- ABB
- Atlas Copco Compressor Vendor
- Automation Direct Partner
- Gardener Denver Partners
- Kunkle Valve Partner
- Stoddard Silencer Partners
- Techtop Motor Distributor
- Xchanger Inc. Partner
- Stevens Engineering
- Airsep O2 Distributor
- AT Controls Partner
- AVEVA Wonderware/SCADA
- Howden Roots Vendor
- Kurz, Krohne, & Sage Meter Vendors
- TB Woods Vendor
- US Valve Vendor
- G&D Chiller

## CONTACT US



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## WHY THE GAS PRE-CONDITIONING SYSTEM?

If your gas upgrading equipment is going to be located more than 800ft - 1000ft away from your biogas production facility, then you will need to move the gas downstream as efficiently as possible. Having the Pre-Conditioning System allows you to move de-watered gas downstream at whatever pressure you prefer and gather data on the biogas at the source rather than after the gas has been fully conditioned. This Pre-Conditioning System needs to have a small footprint and have low OpEx needs and EI supplies one of the most proven biogas skids in the market. There are currently over 50, operational EI Pre-Conditioning Systems in rural locations moving biogas to RNG Upgrading Systems.

## ABOUT US

Energy Innovations (EI) has been a pioneer in the Biogas Industry for over 10 years. Our commitment is to build systems that are efficient and effective. With design, electrical, automation, and fabrication departments in over a 20,000 ft<sup>2</sup> sq facility, we create easy to install packages that can deploy anywhere, on any size project.



American Welding Society



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MEMBER  
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Ignition  
Core Certified