



INTEGRATED BIOGAS CLEAN-UP SYSTEM

Unrivaled performance. Proven to surpass the most stringent fuel quality specifications in the industry.

Overview

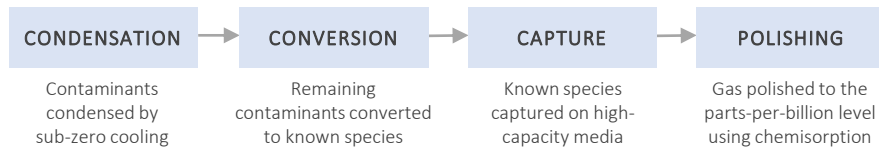
Quadrogen's Integrated Biogas Clean-Up System (IBCS) removes contaminants from biogas/landfill gas to the parts-per-billion (ppb_v) level to produce ultra-clean fuel.

Contaminants Removed

Siloxanes | Sulfur Species | Halides | Oxygen | Volatile Organic Compounds

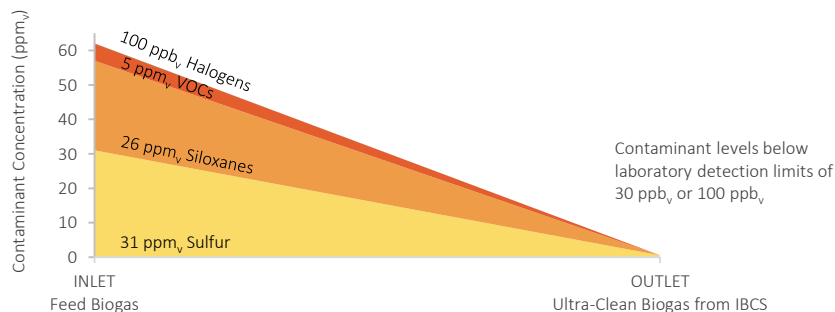
Technology

The IBCS features Quadrogen's proprietary C³P technology.








Performance

As demonstrated at Orange County Sanitation District Wastewater Treatment Plant, CA, USA



The IBCS enables production of:

-  Renewable Power
-  Biomethane
-  Biodiesel
-  Green Hydrogen
-  Renewable Heat
-  Carbon Neutral CO₂

► Technical Specifications

	IBCS 300	IBCS 750	IBUS 1500	IBUS 3000
Biogas Feed Flowrate	160 Nm ³ /h	765 Nm ³ /h	1530 Nm ³ /h	3060 Nm ³ /h
	100 SCFM	475 SCFM	950 SCFM	1900 SCFM
Compatibility with Fuel Cell Load Production¹	300 kW	1400 kW	2800 kW	5600 kW
Power Consumption	0.10 – 0.20 kWh/Nm ³ of feed gas			
Clean Gas Product Purity	Siloxanes: < 50 ppb _v or undetectable Sulfur Species: < 30 ppb _v or undetectable Halides: < 30 ppb _v or undetectable Oxygen: < 50 ppb _v or undetectable Volatile Organic Compounds: < 30 ppb _v or undetectable			
Turndown Range	25% – 100% of full load			
Storage Temperature	5°C – 60°C (41°F – 140°F)			
Ambient Temperature	-20°C – 40°C (-4°F – 104°F)			
Noise Db(A) At 1 Meter	< 80			
Estimated Footprint Requirement	6 m x 9 m	12 m x 18 m	18 m x 18 m	24 m x 24 m
	20 ft. x 30 ft.	40 ft. x 60 ft.	60 ft. x 60 ft.	80 ft. x 80 ft.

¹ Estimated power output when integrated with a molten carbonate, solid oxide, or phosphoric acid fuel cell.

Quadrogen offers custom engineered clean-up systems to meet specific operational requirements. Please contact us to discuss your application and options available to best fit your needs.

QUADROGEN



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