

quasar Selects Tank Connection for Premier BioGas Storage Containment Products!

INTRODUCING WOOSTER, OHIO: *ecoFARMsystem 550*

quasar has partnered with The Ohio State University - Ohio Agricultural Research and Development Center (OARDC) to build the first **F550** system in the BioHio Research Park on the Wooster, Ohio campus. As the first official tenant of the park, **quasar** is proud to contribute to this economic development initiative by bringing clean, renewable energy to this area of Ohio.



Hybrid digester tank under construction



Membrane or special steel pressure deck design utilized

Additional support for the project has been provided by the Ohio BioProducts Innovation Center (OBIC), the United States Department of Agriculture and the Ohio Department of Development.

Project Profile: *quasar's* Flagship Facility

Because of its strategic location on the university campus, the Wooster F550 will benefit from the wealth of research and knowledge available through the distinguished faculty of the OSU/OARDC. In coordination with our collaborative state-of-the-art laboratory facility, the system will feature all of the latest advancements in **quasar** technology including patent-pending biogas upgrade equipment provided by Biogas Technologies Unlimited (BTU is a division of **quasar**). The system will process regional food waste and crop residuals, grass and manure from OSU/OARDC farm operations to produce clean, renewable energy and valuable byproducts.

Based on **quasar** requirements, the bolted RTP design offered by Tank Connection and the LIQ Fusion 7000 FBE™ coating system were selected with some additional hybrid features added.

Tank Connection is the only storage tank manufacturer worldwide that designs, manufactures and installs all four types of steel digester tank designs including bolted RTP, field-weld, shop-weld and hybrid tank construction.

“The most important area inside an anaerobic digester tank is the vapor zone area,” according to Tank Connection vice-president, Vince Horton. “This is the area where improper storage tank designs and coatings fail routinely. In review, there are numerous digester designs offered in the marketplace today. Tank Connection engineering has developed what we believe are the ultimate digester designs that will provide superior performance in the field with low maintenance requirements.”

Available Steel Tank Digester Options Include:

Anaerobic Digester Options					
Optional Designs:	Types	Liquid Zone	Vapor Zone	Installed Cost	Tank Connection Comments
Option 1	Black Steel	X	LIQ Fusion*	Lowest cost digester option	Black steel is optional for liquid zone that maintains no oxygen. Without oxygen present, there is no corrosive activity.
Option 2	LIQ Fusion 7000 FBE™	X	X	Most cost efficient	TC recommended for a complete lined tank application.
Option 3	304 Stainless Hybrid	LIQ Fusion*	X	Cost efficient	TC recommended due to the current low cost of stainless steel Ultimate anaerobic digester design.
Option 4	Glass Coated	X	X	Most expensive approach	Sidewall panels provide good protection. Vapor zone deck design is the weak link in anaerobic digester applications.
* Designation LIQ Fusion 7000 FBE™ (Tank Connection exclusive & proprietary fusion bond coating system)					