

The Best in Anaerobic Digesters

(By Vince Horton, VP Sales)

In anaerobic digester applications, Tank Connection's RTP (rolled, tapered panel) bolted tank design coated with LIQ Fusion 7000 FBE™ is unmatched in performance compared to other digester tank designs offered today. At Tank Connection, we manufacture the #1 bolted liquid storage tank design selected worldwide!



At TC, our clients rely on us to address the factors that should be addressed in digester applications including vapor zone considerations, operating temperature, applicable design configurations, corrosion considerations, pH/acidic levels, operating environment, materials of construction, applicable codes, thermal expansion, chemical resistance and appropriate design standards.



The most important area inside an anaerobic digester tank is the vapor zone area. This is the area where other storage tank designs and coatings fail. In review, there are numerous digester designs offered in the marketplace today. Tank Connection has developed the ultimate digester designs that provide superior performance in the field with low maintenance requirements. Consider the following:

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)

There's a reason why Tank Connection is building the best digester designs in the industry and it all starts with understanding the requirements of each application:

- Sidewall to deck connection is welded . . . not bolted. A bolted connection in the sidewall to deck connection area (vapor zone) is an inferior design compared to a smooth welded transition that is coated with a factory applied “holiday free” fusion bond coating system.
- No internal deck supports are allowed . . . special pressure deck design developed by Tank Connection utilizes external supports only.
- LIQ Fusion 7000 FBE™, the best fusion bond powder lining system available worldwide. It is applied at 12 mils DFT in digester applications.
- For select applications, Tank Connection can provide stainless steel construction in the vapor zone area.
- LIQ Fusion 7000 FBE™ is the most cost efficient approach for anaerobic digester applications.
- Based on the current and continued low pricing of stainless steel material, a hybrid digester design that utilizes LIQ Fusion 7000 FBE™ in the liquid zone and stainless construction in the vapor zone, may be considered the ultimate digester design available.
- Our proprietary LIQ Fusion 7000 FBE™ is NSF 61-approved and is unmatched in performance compared to all bolted tank linings.
- Tank Connection is the only tank supplier worldwide that designs, manufactures and installs all four types of steel storage tanks including **bolted RTP, field-weld, shop-weld and hybrid** tank designs for wastewater storage. We offer our clients whatever type of steel tank construction is preferred.
- Our precision RTP (rolled, tapered panel) construction is the #1 bolted tank design selected worldwide. The best features of bolted and field-weld tank construction have been combined together in the RTP design. It remains unmatched in the industry in all category ratings.
- Typical anaerobic digester tank sizes:
 - Bolted RTP Designs – Up to 2 million gallons (7570 cubic meters) with external rafter, pressure deck designs.
 - Field-weld Designs – Up to 10 million gallons (37,850 cubic meters) with special deck designs.
- RTP construction is easily containerized and shipped worldwide.
- TC's field construction processes are rated “the best” in the industry. We utilize a synchronized jacking process that allows wastewater storage tanks to be built from grade level. This process also receives the highest ratings for point quality control and safety in the field.
- Tank Connection is a vertically integrated company, which promotes our global position as a competitive price leader.
- With over 2100 years of combined experience in storage applications, Tank Connection stands along as a global leader in storage containment systems.

For more information on Tank Connection, visit our website at www.tankconnection.com or link directly through www.digestertanks.com.