



LIPP Universal Digester

THIS LIPP DIGESTER TANK SYSTEM HAS VOLUMES RANGING FROM 50,000 GALLONS TO 1,500,000 GALLONS

The LIPP Universal digester is provided with a gas tight flat membrane cover which will allow the reactor to have the integrated gas collected and transferred to an alternate electrical generation source. This digester is used for larger plants for industry and municipalities. The biogas that is generated can be combined with the Universal digester or sent into a separate gas collection and energy processing system.

KEY BENEFITS

- Production of renewable energy and reduction of fossil CO2 emissions
- Low noise emissions
- Flexible Liquid wastewater compositions
- Customized pumping and mixing technology provided
- High functional safety
- Effective insulation results in low heating requirements
- Quick construction thanks to on-site manufacturing & assembly
- Low investment costs
- Low-maintenance over a long period
- Consistent quality installations

MODULAR PLANT CONCEPT

The LIPP Universal digester essentially consists of a (Verinox 316L) stainless steel tank with a modular design. Panel heating and insulation are fitted on the outside and are easily accessible. Thermal yield is optimized due to the good conductivity of the steel. The tank is covered by a self-supporting stainless steel diaphragm flat roof which is particularly corrosion-resistant, making it suitable for use with aggressive liquid wastewaters in which can be designed to collect the gas produced within the digester tank.

ROOF SYSTEM ADVANTAGES

- Clear span “non supported” stainless steel membrane roof system / gas tight - insulated resistant to corrosion of aggressive wastewaters
- Materials - 304L / 316L stainless steel
- No welding on-site to install
- Low maintenance
- High snow load capability
- Roof is insulated and covered with an aggregate / gravel for long lasting operation

PRODUCT INFO //////////////////////////////////////

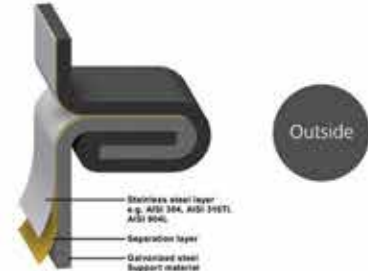
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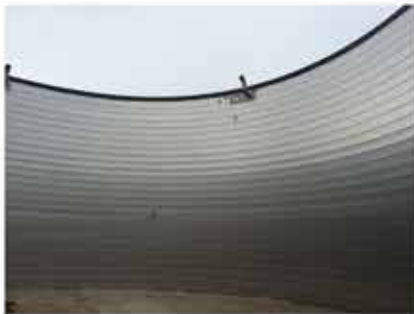
FLEXIBLE WASTEWATER COMPOSITIONS

The Universal Lipp Digester can operate successfully with the introduction of a large variety of liquid mixtures and grades. The Lipp system uses pumping and mixing technologies which enable optimum energy creation and work in conjunction with pre-post treatment of the substrate by the installation of supporting tanks such as sludge holding, equalization, aeration, hydrolysis tanks, and post digesters as well.

When Using the Lipp Universal digester tank for Biogas plants or even sludge digestion, you benefit from over 50 years of tank experience and wastewater plant construction, along with the excellent high quality known worldwide from the Lipp system. More important is the Verinox stainless steel interior plate that is characterized by its high quality and maximum Leak Tightness.



SMOOTH INTERNAL WALLS AND CUSTOMISED MIXING TECHNOLOGY



Thanks to the Double-Seam System, LIPP digesters have smooth internal walls (largely without any internal attachments) and ensure uniform mixing while keeping energy consumption low. The external panel heating guarantees uniform temperature distribution in the digester. These thermodynamic and mechanical benefits with LIPP digesters also mean that short retention times are achieved. The high functional safety, especially in respect of heating and stirring technology, promotes a low demand for process energy. Further benefits include minimal maintenance requirements and a long service life.

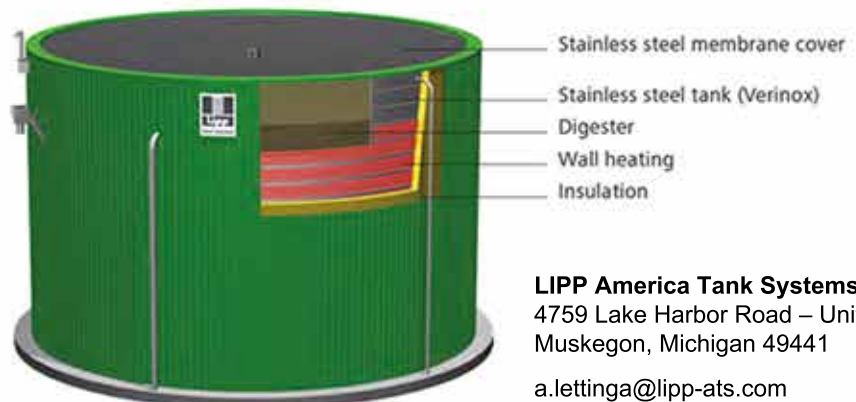
SHORT INSTALLATION TIMES DUE TO ON-SITE PRODUCTION

The automated assembly technology in the LIPP Double-Seam System enables the fast construction of stainless steel digesters which in turn has a positive effect on investment costs. Other characteristics of installation using the LIPP System include efficient production on site requiring minimal installation space and a short installation time.



LIPP Universal digester during construction

- Stainless steel digester with a digester chamber volume of 50,000 gallons to 1,500,000 gallons
- External panel heating and insulation
- Optimized diameter-to-height ratio for optimum mixing and minimal mixing
- Flexible mixing technology which can be adapted to the wastewater substrate and digester size
- Mixing process can be maintained without having to empty the tank



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