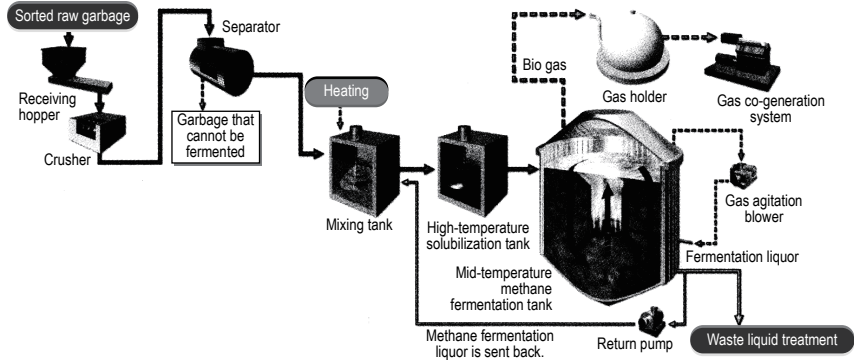


Technical Information Sheet

1. Name of technology	Methane fermentation technology for food waste, etc. (Ataka WTM System)
2. Type of technology	Methanation of food waste without water dilution
3. Description of technology	<p>[Objective and application of the technology]</p> <p>This technology has been developed to minimize energy consumption and maximize energy production, which can be used outside of food waste treatment facilities.</p> <p>Food waste and organic waste including animal and plant residues can be converted to methane gas without water dilution, which would be common in the conventional methanation process to adjust the solid concentration. Because water dilution is not used, heat energy can be reduced and the amount of wastewater to be disposed of will be reduced.</p> <p>Another significant point of this technology is the combination of high temperature liquidation and mesophilic methanation. This combination reduces the risk of ammonia gas inhibition of methane gas production and provides a good solid decomposition rate.</p> <p>High liquidation will also have an inactivation effect on pathogenic organisms.</p> <p>This technology is applicable to the food industry and garbage disposal facilities.</p> <p>[Characteristics of the technology]</p> <p>Normal operation temp.</p> <p>Liquidation tank: 55 degrees Celsius</p> <p>Fermentation: 37 degrees Celsius</p> <p>Retention time: 18 days</p> <p>Organic loading: up to 20 kg-COD(Cr)/m³/day</p> <p>Methane gas production: 150 m³/ton</p>  <p>[Delivery record]</p> <p>Verification test (commercial raw garbage 1 ton per day)</p> <p>[Price and other inquiries]</p> <p>Overseas Sales and Engineering Department, Overseas Business Division</p>
4. Classification of technology	
(1) Applicable fields	Municipal solid waste treatment, Industrial waste treatment, Recycling
(2) Target waste	Food waste/raw garbage
(3) Services provided	Plant construction
5. Countries to which this technology can be provided	All countries
6. Keywords	Raw garbage, dilution-less, high-temperature liquidation, mesophilic fermentation, bio gas
7. Contact information	Daiki Ataka Engineering Co., Ltd. Overseas Sales and Engineering Department, Overseas Business Division