



Water Treatment Segment

Contributing to the building of social infrastructure.
Pursuing energy conservation and energy generation.

We steadily support the sound formation of social infrastructure through our water-related engineering.
We will continue to explore technologies to realize a carbon-neutral society.



01
Sewage Treatment



02
Sludge Treatment



03
Biomass



04
Water Treatment



05
Industrial Water Treatment



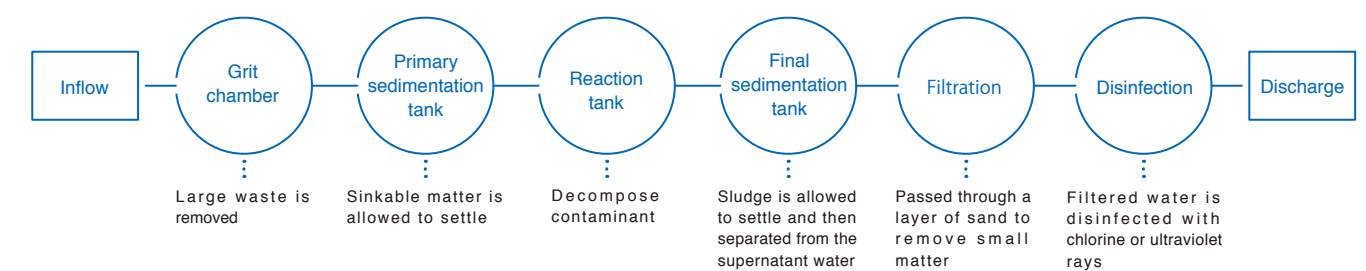
06
Cooling Tower


Top market share in Japan

01. Sewage Treatment



We provide systems and products that meet the challenges of the sewage sector, such as renovation and renewal of aging facilities and measures to combat global warming.

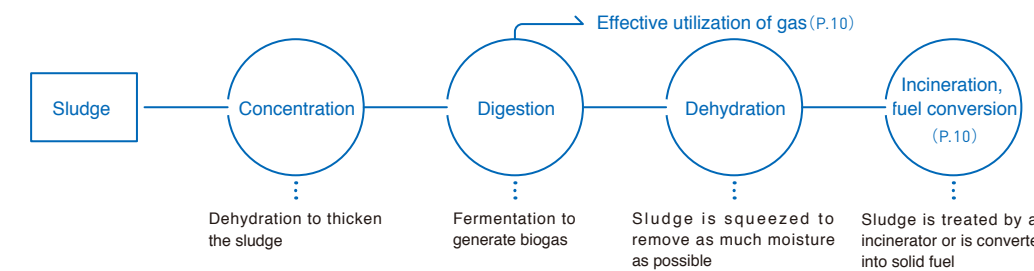


<p>Grit chamber</p> <p>Washing to dehydration, all in a single equipment</p> <p>Residue Cleaning Dehydrator</p> <p>Features a simple structure that uses a single-axis screw to wash and dehydrate residue. Thanks to its simple and compact structure, it can be installed to the existing plant and it requires less power than the conventional dual shaft type.</p> 	<p>Primary sedimentation tank</p> <p>Low power, long life</p> <p>Non-Metallic Sludge Collection System</p> <p>By using high-performance plastic chains with excellent corrosion and wear resistance, it is possible to lower the power consumption and make it longer life than conventional metal scrapers.</p> 	<p>Reaction tank</p> <p>High oxygen transfer efficiency</p> <p>PABIO TUBE™</p> <p>Specially designed durable silicone rubber reduces pressure loss and power consumption of blower while keeping high oxygen transfer efficiency.</p> 	<p>Reaction tank</p> <p>Pursuing efficiency of mixing</p> <p>Hyperboloid Mixer PABIO Mix™</p> <p>By rotating the hyperboloid mixer with a low speed at the bottom of the tank, sufficient mixing is achieved with low power.</p> 
--	---	--	--

02. Sludge Treatment



We will contribute to a carbon free society by minimizing the energy required for sludge treatment and converting the energy contained in sewage sludge into electricity and coal-alternative fuels.



<p>Concentration</p> <p>High performance and compact</p> <p>Gravity Belt Thickener</p> <p>Stable thickening performance is obtained for all kinds of sludge generated in the water treatment. The belt (filter cloth) is made of light and inexpensive resin which maintenance work is easier than metal belt.</p> 	<p>Digestion</p> <p>Short construction period, easy maintenance</p> <p>Stainless Steel Digester</p> <p>Construction period can be greatly shortened compared to conventional concrete digesters. Sensors can be installed to monitor the inside of the digester, enabling stable operation and improved maintainability.</p> 	<p>Dehydration</p> <p>Processes difficult-to-dewater sludge</p> <p>Screw Press Dehydrator</p> <p>By optimizing the thickening, flocculating, and pressurizing processes, it is possible to reduce the moisture content of difficult-to-dewater sludge such as digested sludge. This reduces GHG emissions and the disposal cost of dewatered sludge.</p> 	<p>Incineration</p> <p>Reduced energy consumption and GHG emissions</p> <p>High-Efficiency Two-Stage Incinerator</p> <p>By establishing a heat decomposition zone and complete combustion zone, and optimizing combustion conditions such as temperature, air ratio, and retention time, it is possible to reduce energy consumption as well as GHG emissions.</p> 
--	--	--	--