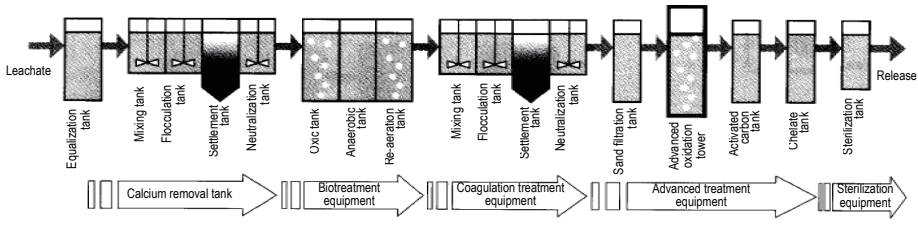


Technical Information Sheet

1. Name of technology	Leachate treatment system for ash dumping site
2. Type of technology	Advanced oxidation that decomposes dioxins
3. Description of technology	<p>[Objective and application of the technology]</p> <p>The ash discharged from refuse incinerators may contain toxic substances like heavy metals. If an incinerator is improperly operated, the ash may possibly contain dioxins, the most hazardous endocrine disrupters. This leachate treatment at ash dumping sites removes dioxins in addition to heavy metals.</p> <p>[Characteristics of the technology]</p> <p>Dioxins can be decomposed by hydro-oxygen radicals derived from the Ozone-H₂O₂ reaction.</p> <p>Therefore this technology is meant to be applied as a post-treatment after conventional water treatments such as coagulation, biological treatment, and filtration in order to save energy and chemical consumption.</p> <p>Objective, application, characteristics, delivery record, and price of technology</p> <p>The membrane separation method can also be used to remove dioxins.</p>  <p style="text-align: center;">Fig. 1 Example of Leachate Treatment System Flow</p> <p>[Delivery record]</p> <p>This technology has been employed in several facilities.</p> <p>[Price and other inquiries]</p> <p>Overseas Sales and Engineering Department, Overseas Business Division</p>
4. Classification of technology	
(1) Applicable fields	Other environment protection technology
(2) Target waste	Other (leachate from Ash disposal sites and refuse incinerators)
(3) Services provided	Plant construction, Other(Engineering and supply)
5. Countries to which this technology can be provided	All countries
6. Keywords	Leachate from landfill, dioxin, environmental endocrine disrupter
7. Contact information	Daiki Ataka Engineering Co., Ltd. Overseas Sales and Engineering Department, Overseas Business Division