

Laboratory of Separation through Atomization (LSA)



COMPANY DESCRIPTION

Matsuura sake brewing company established the Laboratory of Separation through Atomization (LSA) to conduct R&D on ultrasonic mist separation technology. LSA developed a novel apparatus for separation/concentration of solutions using ultrasound. Our energy saving technology meets various industry needs for separation/concentration without the use of fossil fuels. The technology has potential applications for a range of industries including alcohol and food processing, refineries and chemical plants, and bio ethanol processing.

OPPORTUNITIES FOR PARTNERS

LSA is proud to present our Ultrasound Mist Separation Unit. We have several patents for this next generation technology and are looking for a marketing agent in the U.S. Our technology will be particularly useful for electric power suppliers. We look forward to future business opportunities with our American partners.

INTRODUCING OUR PRODUCTS

The “Ultrasonic Mist Separation Unit” is an innovative technology that cuts costs while improving energy efficiency and environmental performance at bio-ethanol plants. Compared to the conventional method of using distillation columns, it uses less energy, uses no fossil fuel and is much more efficient as it does not require time for distillation start up. Energy savings should be one third or more compared to distillation, providing an environmentally friendly and cost effective alternative. Our separation through ultrasonic atomization technology also has the following applications: concentration of salts, sugars, organic acids, surfactants, amino acids, inorganic acids and glycols; separation and dewatering of alcohols (bio-fuel ethanol etc.), hydrocarbons and other volatile materials; concentration and separation of nanometer size or micrometer size particles; ammonia stripping.

LABORATORY OF SEPARATION THROUGH ATOMIZATION

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