



AUTOMATIC TROUBLE-FREE, EFFECTIVE SLUDGE MIXING

Ease of operation and maintenance

Heat exchanger jacket compatibility

Ragless propeller design

Improved uptime & long continuous service periods

Removable mixing mechanism to avoid de-gassing or de-watering the digester



Interested in preventing fouling while retaining high efficiency? Call us at 1.855.GO.OVIVO to learn more!

EIMIX[®] MECHANICAL SLUDGE MIXER



ANAEROBIC DIGESTION

Anaerobic Digestion is highly dependent upon effective sludge mixing. When tank content is inadequately mixed, stratification occurs and the tank volume is not properly utilized. Most wastewater treatment facilities require thorough and complete mixing to ensure uniform temperature, solids distribution and microorganism contact with incoming sludge, to increase gas production and maximize the solids destruction.



Reversing motor

BUT WHY CHOOSE THE EIMIX® MIXER?

MECHANISM

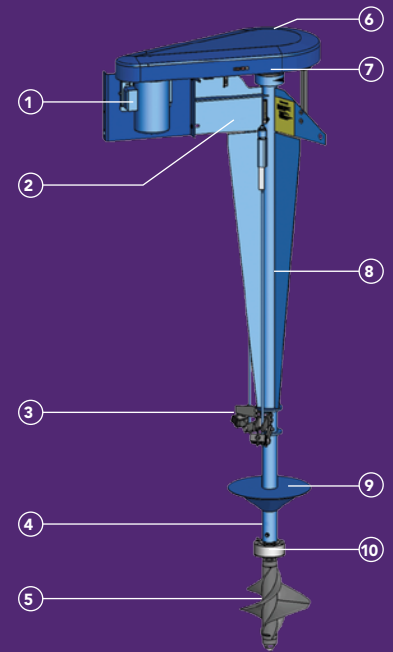
- Eimix® ragless propellers have been designed to run clean without accumulation of stringy and fibrous material. This design prevents fouling while retaining high efficiency and low maintenance requirements.
- Positive Lower Lubrication:
 - Oil lubrication provides a positive pressure to the lower bearing
 - Dipstick for manual inspection and monitoring
 - Electronic oil level sensor available (SCADA compatible)
- Upper bearing is located well above liquid level, next to the motor, with the lower bearing next to the propeller. This increases bearing span and minimizes overhung loads for extended bearing life.

BENEFITS

- Use of a reversing motor enables to pump sludge with equivalent capacity in both directions, which maximizes system flexibility by altering mixing dynamics.
- Mixer assembly can be removed without dewatering or degassing the digester.

ENGINEERING

DESIGNED FOR PERFORMANCE



- 1 Reversible, Explosion-Proof, Inverter Duty Motor
- 2 Oil Dipstick
- 3 Adjustable Centering Device
- 4 Lower Shaft Housing
- 5 EIMIX® Ragless Reversible Propeller
- 6 Belt Guard (FRP / Stainless Steel)
- 7 Upper Bearing
- 8 Upper Shaft Housing
- 9 Flow Deflector
- 10 Mechanical Seal and Lower Bearing

DRAFT TUBE MIXERS

- Internal roof mounted (RDT) or external (EDT) draft tube design.
- Available for installation on existing, new, primary or secondary digesters.
- One or more units can be installed to suit specific mixing needs.
- Optional heat exchanger jackets reduce maintenance, installation and operational costs while providing effective, uniform heating for the digester.

EIMIX® RDT TYPE MIXERS



Mounted on the tank cover, this design allows the upper draft tube and mixer mechanism to be easily removed.

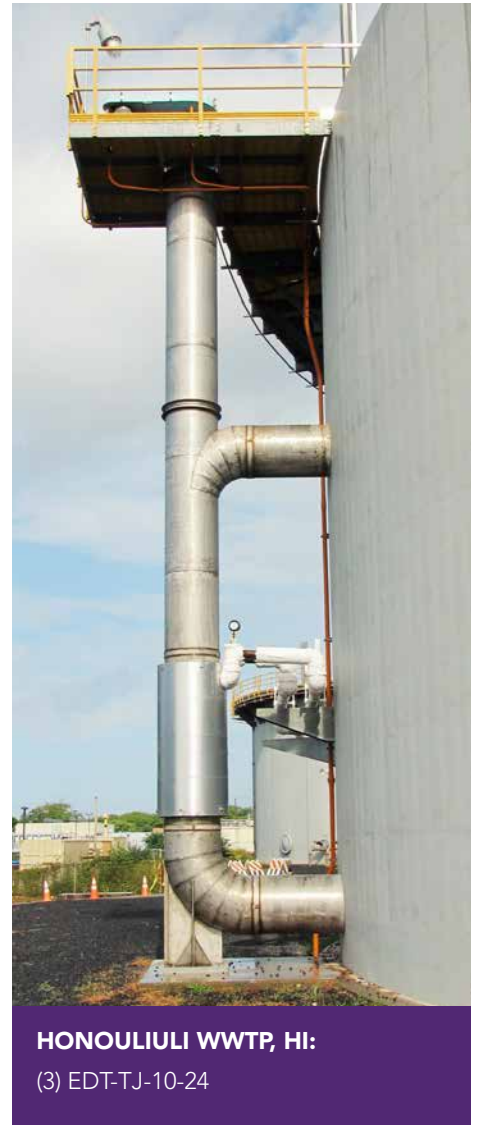
One or more RDT mixers can be distributed across the tank or can be installed in conjunction with an EDT mixer for additional scum breaking and mixing capacity.

EIMIX® EDT TYPE MIXERS



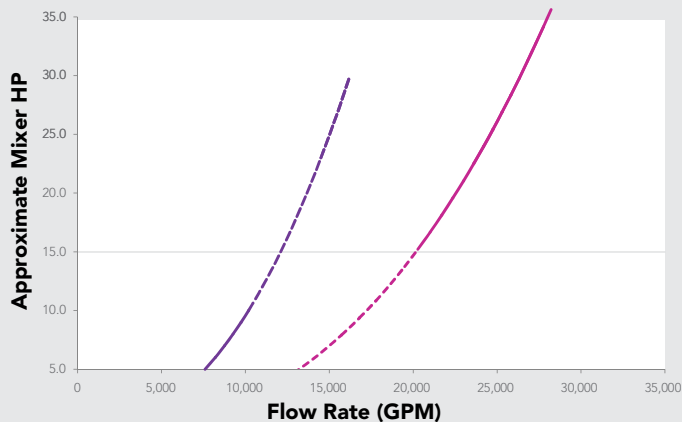
Easy access for maintenance is achieved by mounting the mixer outside of the tank.

Maximum energy input occurs at the periphery of the tank near the surface and at the bottom of the tank, creating a tangential, spiral flow pattern within the tank. Includes a maintenance platform for easy access.



HONOULIULI WWTW, HI:
(3) EDT-TJ-10-24

CERTIFIED CURVES



24" PROPELLER

- < 10 hp (Recommended)
- - - > 10 hp

36" PROPELLER

- < 15 hp (Recommended)
- - - > 15 hp

The Eimix propellers are offered in two diameters:

- 24" diameter, typically recommended for mixers between 5 and 10 hp
- 36" diameter, typically used for mixers greater than 15 hp.

This performance graph included the pump up operation. Ovivo's design offers equivalent capacity.

THE OVIVO DIFFERENCE

200+ YEARS OF HERITAGE • 100% FOCUSED ON WATER

OUR EXPERTISE

Anaerobic Digestion is highly dependent upon effective sludge mixing. Ovivo sludge mixers are designed to provide powerful mixing, without accumulating stringy or fibrous material. Highly efficient and featuring low maintenance requirements, they can be used for existing or new digesters. Their configuration is adapted to suit best the specific tank design and application.

ANCILLARY EQUIPMENT

Ovivo can supply all plant required equipment for a complete Sludge Treatment / Anaerobic Digestion plant, including but not limited to:

- Ultrastore™ Membrane Gasholder
- LM™ Mixer
- Ovivo® Anaerobic Digester Steel Cover
- Sonolyzer™ Ultrasound Sludge Disintegrator



ATOTONILCO PTAR, MEXICO:
(1) RDT-T-75-36 with over 60' long Draft tubes.

ovivo®connectSM

Ovivo® ConnectSM portal is an innovative and intuitive application that allows our customers to use 'SmartTags' installed on our equipment (or a web URL) to access a personalized customer zone. Access your equipment documentation, find contract references, track service logs, manage spare parts, and plan your next maintenance to get the most out of your equipment.

NEED **ACCESS** TO YOUR **O&M MANUAL**?
NEED **SPARE PARTS**?
WANT THE **LATEST TIPS AND NEWS** ON YOUR ASSET?

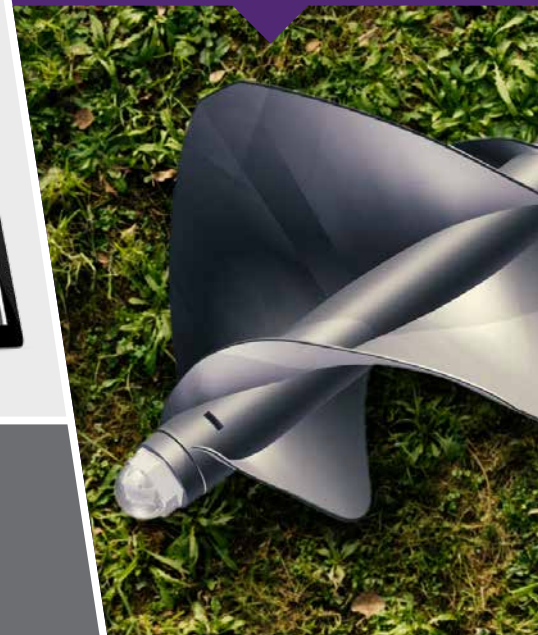


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EIMIX® RAGLESS PROPELLER



LEARN MORE!
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