

Zeo-Clear™

Containerized Treatment System

A revolutionary biological treatment solution

The Zeo-Clear has the capacity to treat organic loads and Nitrogen simultaneously. Using the same aeration principles as conventional systems, the Zeo-Clear difference provides greater effluent quality by reducing nutrients. A multitude of different connection sizes and configurations are available, starting at the smallest unit in a 20-foot ISO container (approximately 300 person capacity) to several 40-foot ISO containers. The Zeo-Clear Systems offer both secondary and tertiary wastewater treatment together in one stage with the aid of selected natural zeolites. This new system is an impressive solution and provides outstanding results in quality and cost savings.

Features and Advantages

- ▶ Rapid installation
- ▶ 20'/40' standard ISO container
- ▶ Minimal energy consumption
- ▶ Significant COD, BOD, TSS reduction
- ▶ Natural zeolyte
- ▶ Integrated controls
- ▶ Blowers and membrane diffusers
- ▶ Perfect for camps, resorts
- ▶ Quality materials and workmanship



The Zeo-Clear is a perfect solution for small populations, camps, resorts, and other low flow applications.

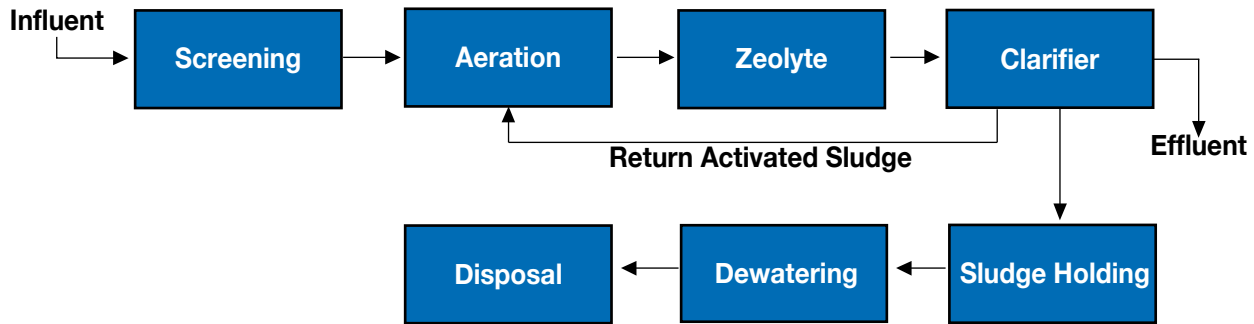


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Zeo-Clear - Process Flow Diagram



Zeo-Clear System Specifications

| Model | Flow (GPD) | Pop. Served | TSS | BOD | COD | N(total) |
|--------|------------|-------------|---------|---------|---------|----------|
| Zeo-20 | 15,000 | 300 | <20mg/L | <20mg/L | <40mg/L | 20mg/L |
| Zeo-40 | 30,000 | 600 | <20mg/L | <20mg/L | <40mg/L | 20mg/L |

Capacities, Sizes & Specs

- ▶ Standard ISO containers 20” and 40’
- ▶ Carbon steel epoxy painted
- ▶ Clarifier with tube settlers for improved clarification
- ▶ Zeolite fixed media sections for optimized catalyzed nitrification and heavy metals cationic absorption

Installation Features

- ▶ Small footprint
- ▶ Competitive cost of installation
- ▶ Mechanical reliability
- ▶ Ready for operation “system ready”
- ▶ Easily portable

Operational Advantages

- ▶ High efficiency BOD/COD removal
- ▶ Nitrogen biological removal, with innovative nitrification/denitrification
- ▶ Excellent capacity to support shock loads
- ▶ High Biomass (MLSS) concentrations and better F/M ratios
- ▶ SVI (Sludge Volume Index) lower than conventional activated sludge processes
- ▶ Low excess sludge and low RAS flow



KENECO HOLDINGS, LLC

11800 Wills Road | Suite 100 | Alpharetta | GA | 30009
+254-700-724-775- O | krebo@keneco.co.ke - E