

Multi-disc Screw Press Dehydrator

What is Multi-disc Screw Press Dehydrator?

Multi-disc screw press dehydrator consists of an outer cylinder that is composed of fixed and moving rings and an inside screw.

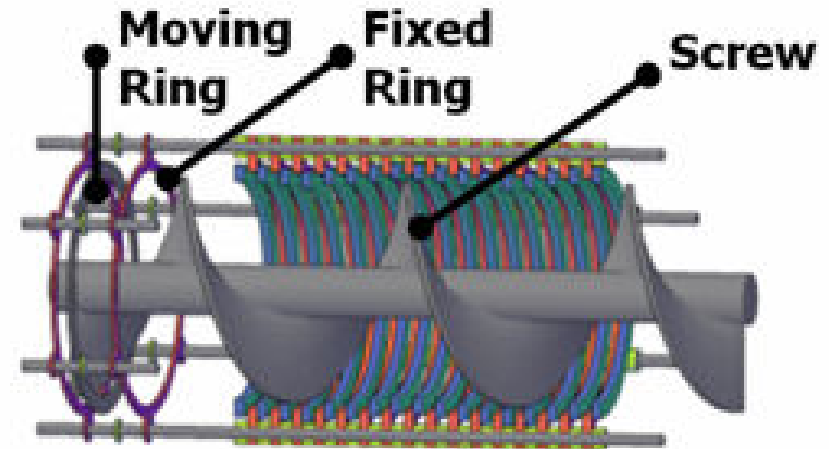
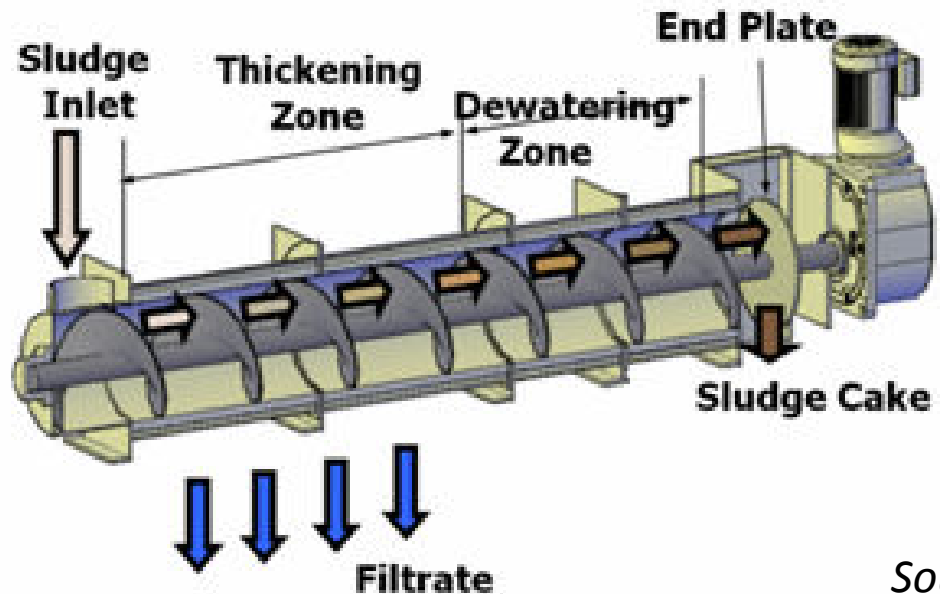
Two-agent conditioning of polyferric sulfate and amphoteric polymer directly dewater low concentration sludge such as activated sludge in a reactor.



The exterior of Multi-disc
Screw Press Dehydrator

Multi-disc Screw Press Dehydrator

Structures

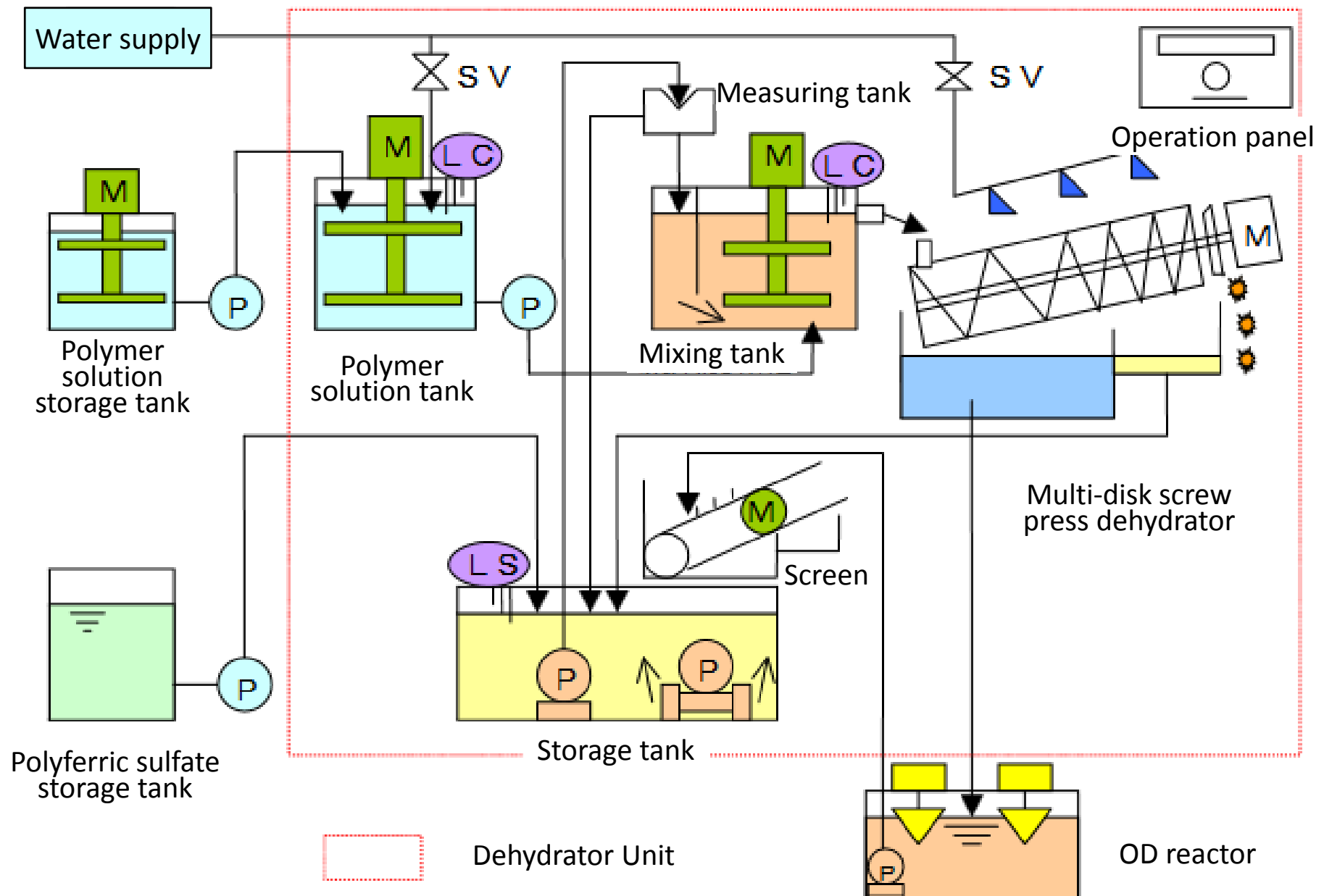


Source of reference:
<http://en.amcon.co.jp/products/volute/features2/>

Features

- Enable unmanned operation for consecutive 24 hours with little clogs.
- Small footprint
- No thickening tank or storage tank is required.
- Easy operation, easy maintenance
- Stable wastewater treatment

Treatment flowchart of Multi-disc Screw Press Dehydrator



Multi-disc Screw Press Dehydrator

Treatment Performance

Dewatering performance	7kg-DS/hr (per axis of dehydrator of $\phi 200$, sludge concentration of 3,000mg/l)
Dosage of polyferric sulfate	15% or less to sludge solids(as a 11% solution product)
Dosage of amphoteric polymer	Sludge solids: 3% or less to (as a 40% polymer solution product) Weight of dry solid: 1.2% or less to sludge solids
Recovery rate of solids matter	95% or more
Water content rate of dewatered cake	83% or less

Application Examples

