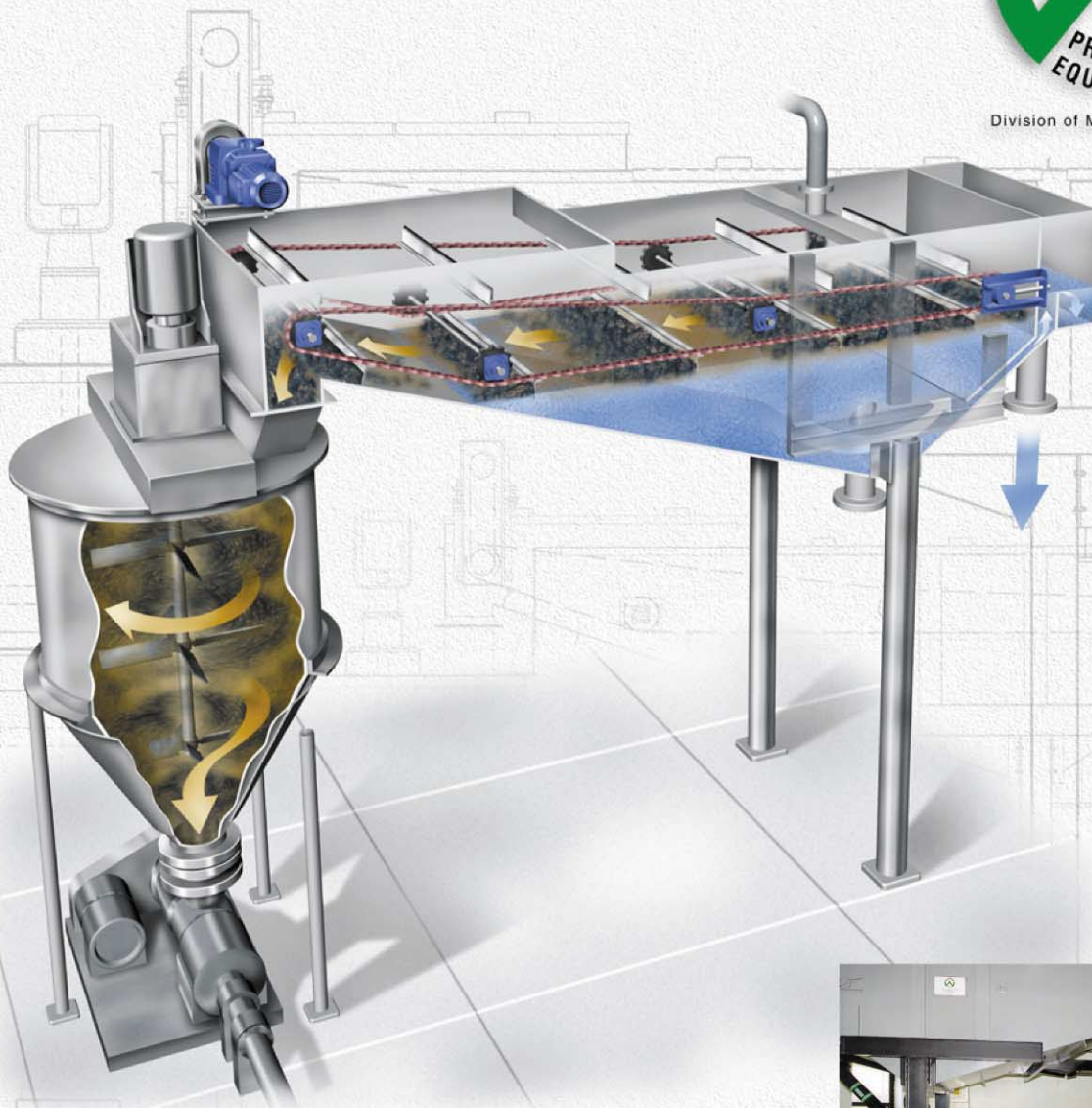


# Scum Concentration System



Division of McNish Corporation

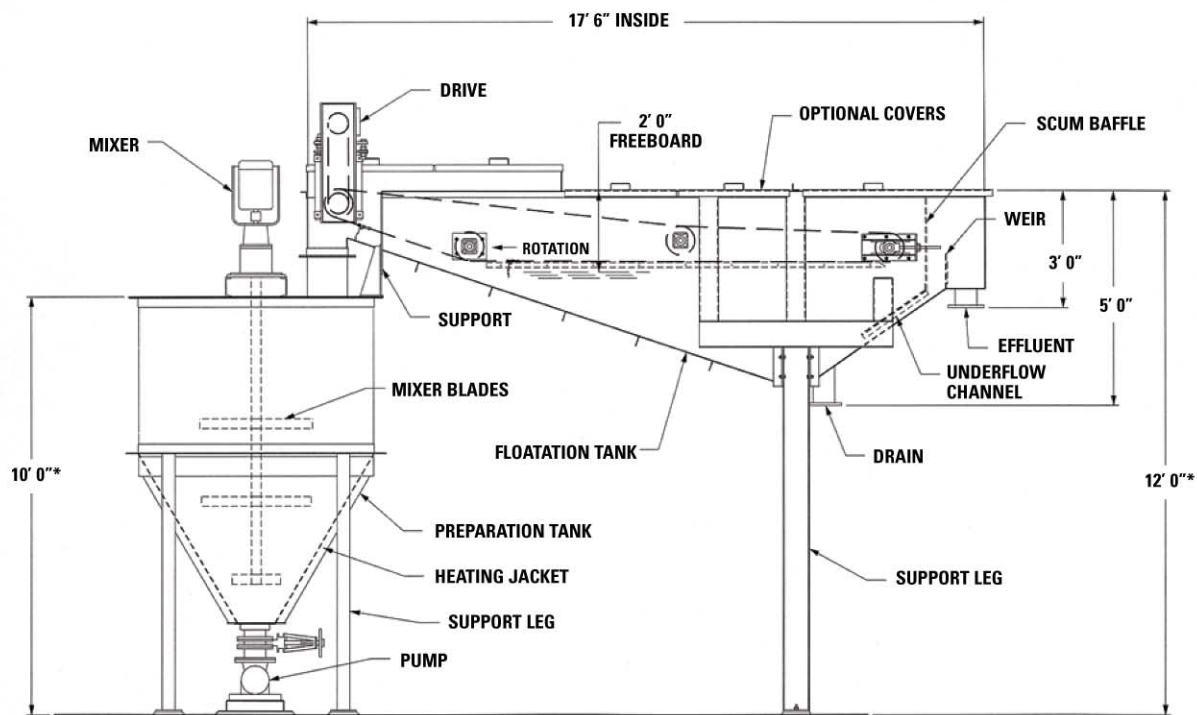


## Effectively Process Scum/Skimmings with a Walker Process Scum Concentration System

The **Scum Concentration System** by Walker Process is a low maintenance and easy to operate system that reduces the cost of processing skimmings removed by clarifiers. The system is specifically designed, engineered and constructed to reduce the volume of water, fats, oil, grease and other material from clarifier skimmings that would otherwise be introduced into the digester—elements that promote foaming, degrade performance and increase treatment costs.

### Scum Concentration Systems by Walker Process:

- Are used with clarifier systems that have scum box flushing systems or ducking skimmers to prevent reintroduction of skimmings into the treatment system.
- Reduce the water content of skimmings from clarifiers.
- Improve digester performance by:
  - Reducing the volume of water introduced into the digester.
  - Reducing the volume of fats, oils and grease that promotes foaming.
- Reduce the disposal cost of digester sludge.
- Are offered in a wide variety of sizes for design flexibility.
- Are shop assembled and tested.
- Are easy to operate and maintain.



\* Height may vary by application

## Functional Design For Impressive Performance

**Walker Process Equipment Scum Concentration Systems** are designed to dewater and homogenize grease and skimmings from clarifiers. The mixture is concentrated to a total suspended solids concentration of approximately 50%.

The system consists of a flotation (separation) tank and a preparation (day) tank with mixer and electrical controls. Optional accessories include a grinder, a scum concentrate (grease) pump and access platforms.

<b>Flotation Tank</b>	4' 0", 5' 0" or 6' 0" wide by 17' 6" long by 5' 0" deep. Fabricated with 1/4" thick carbon steel or stainless steel plate. Cover optional.
<b>Skimming Mechanism</b>	Flights - Type 304 stainless steel Shafting - 1-7/16" cold rolled steel Bearings - Ball bearings, flanged, self aligning, sealed and grease lubricated Chain - Promal Iron or Polymeric (plastic) Sprockets - Cast Iron or Polymeric (plastic) Drive - 1/3 hp Speed - approx. 9 fpm
<b>Preparation Tank</b>	5' 0" Dia. (650 gal. capacity) 6' 0" Dia. (927 gal. capacity) 1/4" Thick Carbon Steel Insulated Steel Jacket for Cone Bottom
<b>Heating Element</b>	4.5 kw with Adjustable Temperature Control
<b>Mixer</b>	10 hp Drive, 2-7/8" Dia. Shaft with Turbine Blade Impellers
<b>Corrosion Protection</b>	Constructed with Carbon Steel, completely shop finish painted
<b>Control Panel</b>	NEMA 4X
<b>Optional Accessories</b>	
<b>Scum Concentrate Pump</b>	3 hp, 0.5 to 5.0 gpm
<b>Grinder</b>	Capacity - 325 gpm, 15 hp

## Walker Process Equipment

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840 North Russell Avenue • Aurora, IL 60506 • Phone: 630-892-7921 • Fax: 630-892-7951

E-mail: [walker.process@walker-process.com](mailto:walker.process@walker-process.com)

[www.walker-process.com](http://www.walker-process.com)