

# Scum and Grease Concentration System



Division of McNish Corporation



**AVAILABLE IN ALL  
STAINLESS-STEEL  
CONSTRUCTION**

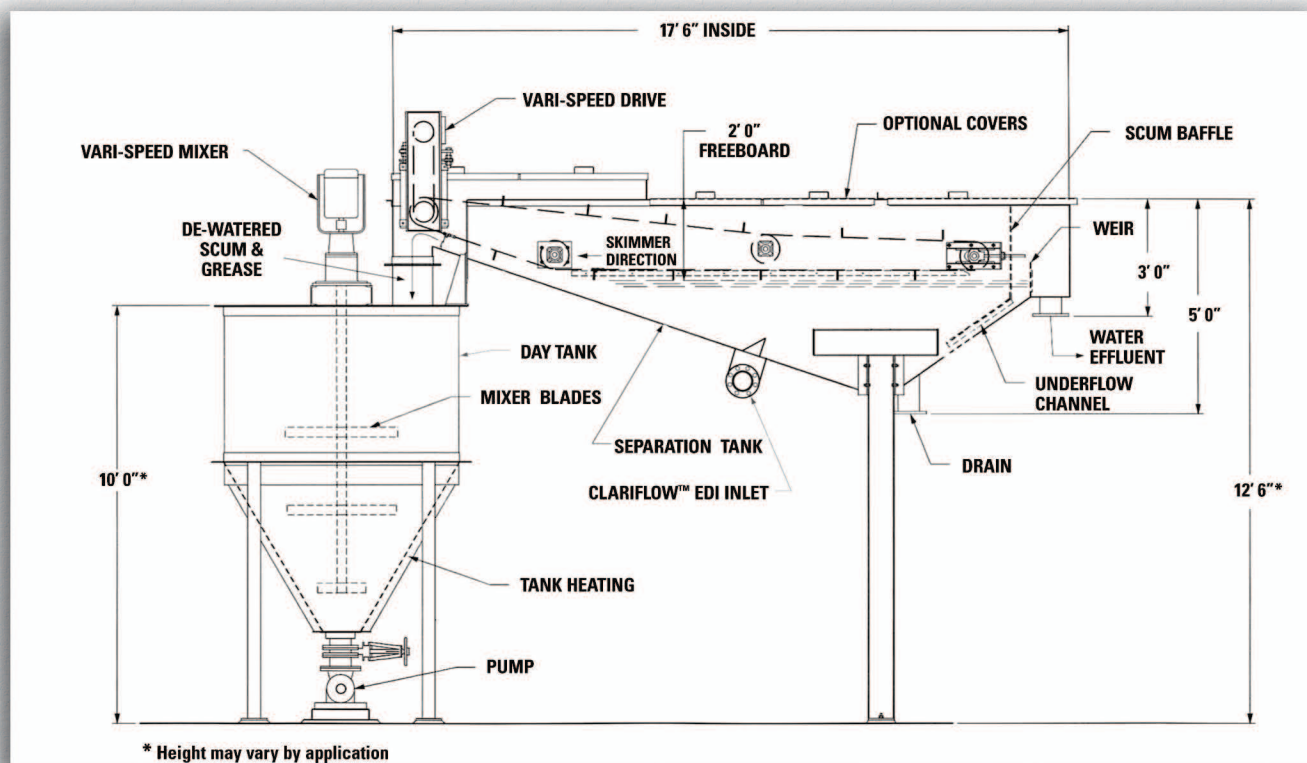
## Effectively Dewater High-FOG Skimmings with a Walker Process Scum and Grease Concentration System

The **Walker Process Scum and Grease Concentration System** combines de-watering by gravity separation with a heated day tank for further processing of concentrated scum and grease. This system provides the means to keep grease laden skimmings pumpable and prepared for transfer to a digester for energy recovery or directly to disposal.

### Scum and Grease Concentration System by Walker Process:

- Process clarifier skimmings with high levels of fats, oils and grease.
- Separate floatable material from carrying water.
- Eliminate re-introduction of skimmings to downstream treatment steps.
- Maintain a homogenous pumpable and concentrated product for disposal or further treatment.





## Functional Design for Impressive Performance

The **Walker Process Scum and Grease Concentration System** is designed to dewater clarifier skimmings in a separation tank and further process the skimmings in a heated and mixed day tank. The de-watered and homogenized material may be concentrated to a Total Suspended Solids content of approximately 50%.

This system consists of a separation tank with a unique energy dissipating bottom inlet to re-float material removed from the clarifier. The separation tank includes a corrosion free non-metallic chain and flight type skimmer mechanism that drags skimmings up a dewatering ramp for discharge directly into the day tank.

One or two heated day tanks are provided for each separation tank to further process skimmings for pumped discharge to a digester or removal to landfill. The day tank can be provided with electrical heating elements or with a hot water jacket and is typically provided with a mixer to maintain a homogeneous and pumpable product.

<b>Separation 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. Optional Removable Cover Panels: aluminum, fiberglass, stainless steel.
<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 - Polymeric (Plastic) Sprockets - Polymeric (Plastic) Drive - 1/3 HP Speed - Variable from 2 - 9 fpm
<b>Day Tank</b>	5'-0" Dia. (650 gal. capacity) 6'-0" Dia. (920 gal. capacity) 1/4" Thick Carbon Steel or Stainless Steel Insulated Steel Jacket for Cone Bottom
<b>Heating Element</b>	4.5 kw with adjustable temperature control, or hot water jacket.
<b>Mixer</b>	Variable speed mixer, to maintain homogeneous mixture and temperature.
<b>Corrosion Protection</b>	Units constructed from carbon steel are completely shop finish painted.
<b>Control Panel</b>	NEMA 4
<b>Scum Concentrate Pump</b>	Progressive cavity type, variable speed, with flow and pressure sized for specific application.

## Walker Process Equipment

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840 N. Russell Ave. • Aurora, IL 60506 • 1-800-992-5537

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