

Scum Separator



Division of McNish Corporation



**AVAILABLE IN ALL
STAINLESS-STEEL
CONSTRUCTION**



Dewater Clarifier Skimmings with a Walker Process Scum Separator

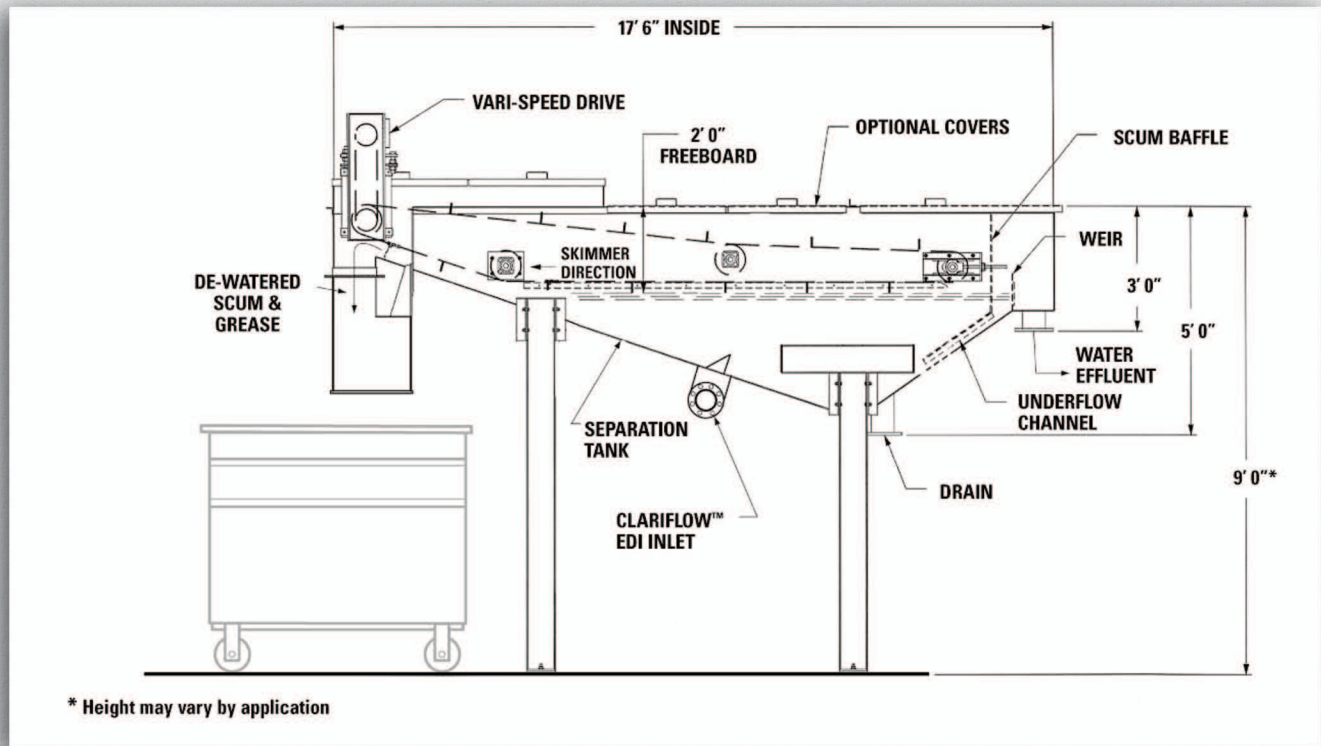
Clarifier skimmings need to be removed from wastewater processing and often are disposed of as solid waste. That disposal cost can be minimized by de-watering the solids to allow easier collection, handling and clean disposal.

The **Walker Process Scum Separator** provides an economical means to de-water clarifier skimmings to the maximum practical degree with the flexibility to collect the solids in standard portable bins, flexible bulk bags or other containers of your choice.

The Separation Tank is designed to provide optimal residence time for separation of the floatable material from the carrying water but not allow sufficient time for settleable solids to accumulate.

Scum Separator:

- Effectively separates clarifier skimmings into floatable material and carrying water.
- Eliminates re-introduction of skimmings to downstream treatment steps.
- Enhance Anaerobic Digester operation by eliminating flow to the Digester:
 - Skimmings from clarifiers
 - Fats, oils, grease and other floatable material.



Design for Effective Performance

Walker Process Equipment Scum Separators are designed to dewater skimmings from clarifiers.

The system consists of a flotation (separation) tank with an enhanced Energy Dissipating Inlet, non-corrosive chain and flight skimming system with variable speed operation, optional tank cover for odor control, appropriate detention time to allow floatables to surface but short enough to discourage settling of any settleable material.

Enhanced Energy Dissipating Inlet that prevents splashing and re-mixing of floating material

Small Footprint and volume allows easier indoor installation.

Variable speed skimmer to provide process control.

Flow Capacity from 100 to 300 gpm per tank.

Separation Tank

Specifically designed for separation of floatable material from carrying water
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.

Skimming Mechanism

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 2 - 9 fpm

Corrosion Protection

Units constructed with carbon steel are completely shop finish painted.

Cover

Optional removable panels

- Aluminum
- Stainless steel
- Fiberglass

Shop Assembly

All Scum Separators are fabricated and completely shop assembled and tested in the Walker Process Equipment plant in Aurora, IL

Walker Process has continuously provided and improved Scum Separators and Grease Concentration Systems since 1966.

For high FOG skimmings see the Walker Process Scum and Grease Concentration System.

Walker Process Equipment

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