

# SMART Systems Solids Management And Recovery Technology

*Complete Food Waste Processing*

HT-2813



**Highland Tank®**

**SMART Model LE-1 pictured includes:**

- Dewatering press with 2 HP drive motor
- 3-5 HP return pump
- Chemical additive pump
- Valve package
- Automatic rinse system
- SMART control panel with water level control and discharge chute limit switch



The SMART System is designed to process wastewater from food processing and preparation facilities that contains both heavier and lighter-than-water solids. Wastewater enters the collection tank, sump, or pit where heavier solids settle out.

A system pump moves the saturated solids to the SMART System which removes the solids from the wastewater.

The result is a semi-dry solid waste that gets collected into a haul-away container. The lighter collected wastewater is pumped directly to a grease removal device like the Highland GreaseStopper®.

The SMART System is custom designed to meet your specific needs.

## **Benefits**

- Up to 80% volume reduction
- Reduced labor costs
- Better Sanitation
- Water conservation
- Improved operator morale
- Flexibility in design
- Processes a wide variety of waste

**Unmatched Quality & Service**



## System Operation

Foodservice waste enters the wastewater collection sump, pit and/or process tank where solids are allowed to separate and settle out. Transfer of collected solids is accomplished by lifting the material via a positive displacement pump, which limits shearing and emulsifying, to the Highland Tank SMART System.

The transferred material consisting of 5% solids and 95% wastewater is separated with the resulting semi-dry solid waste collected in a haul away container and the extracted wastewater sent to an appropriate collection device.

## Technical Specifications

**Dewatering Press :** Rigid stainless steel weldment with stainless steel legs, head assembly with 2HP TEFC direct drive motor mounted to a 50:1 gear reducer (resultant 22 rpm), removable stainless steel access cover, 15" long stainless steel discharge chute with limit switch. Dewatering press consists of a 6" diameter stainless steel screw with nylon brush edge, matching 6" diameter stainless steel plug cutter.



**Valve Package:** All valves required for proper operation:

- Fresh water
- Tray flush
- Drain lines



**SMART Control (Electrical Control Panel):** Includes all necessary electrical components prewired to a terminal strip; water level control and push button station, pump speed control and automatic/manual control settings in a stainless steel NEMA 4 enclosure.



## Options Available

- Extended Discharge Chute
- Hinged Chute
- Extended Stand
- VFD Drive
- Level Detector
- Special Electrical Characteristics

**Electrical:** 208/230/480 Volt, 3 Phase, 60 Hertz

**Capacity:** 1,000 pounds per hour of foodservice waste mix, consisting of food scraps, process waste, pulp waste etc, based on 10-20 gpm flow @ 3-5% solids content.

**Finish:** All exterior surfaces, except where polished stainless steel, are primer coated and finished with enamel paint.

Note: Highland Tank supplies equipment only. Installation, piping and wiring should be completed by a qualified plumbing contractor.



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