The Somat SPC-50S Waste Reduction System processes up to 900 lbs. of food service waste per hour providing an economic and efficient answer to cutting the high and ever increasing costs associated with waste handling. Somat Pulping Systems are engineered to reduce foodservice waste volume by an 8 to 1 reduction (up to 85%) Compostable waste enters the pulping tank via the feed tray or scrapping trough where it mixes with water and is ground into a slurry. The slurry is fed to the Hydra-Extractor® for de-watering and the result is a semi-dry pulp discharged into a haul-away container or a Somat Dehydrator for additional reduction. The extracted water is recovered and returned to the pulping tank for re-use by the tray or trough.

**VOLTAGE OPTIONS**
- 208/60/3
- 230/60/3
- 460/60/3
- International options available, consult factory

**STANDARD FEATURES**
- Hinged lid pulper with limit switch
- Hydra-Extractor
- 3 HP recirculating pump
- Valve package
- Chemical additive pump
- Som-A-Trol control panel

**TECHNICAL SPECIFICATIONS**

**Pulper:**
- 23" diameter, 39" high max (legs fully extended)
- Polished stainless steel tank
- Hinged lid with limit switch
- ¾" stainless slurry chamber
- 5 HP TEFC direct drive motor
- Internal collection box
- “Hypoint” style cutting mechanism, featuring:
  - Stainless steel impeller
  - Two hardened corrosion resistant alloy rotating blades
  - Three carbide stationary blades

**Hydra-Extractor**
- Welded stainless steel construction
- Stainless steel adjustable legs
- 2 HP TEFC drive motor
- 20:1 gear reducer
- 3HP TEFC recirculating pump
- Chemical pump
- 6" stainless steel auger with nylon brush edge
- Reinforced stainless steel screens
- Automatic shutdown timer
- Automatic rinse system
- Discharge chute with safety switch

**Valve Package:**
- All valves required for operation including fresh water, return and drain lines.

**Som-A-Trol Electrical Control Panel:**
- UL approved stainless steel NEMA 4 panel with all components pre-wired to internal terminal strip. Push Button control station on panel door (remote control station optional). Panel to be wall mounted with field connection to pulper mounted junction box.

**OPTIONS**
- Water flushed feed tray
- Trough feed connection
- Feed tray cover
- Prison package
- Under dish table unit
- Vibration pads
- Remote push button station
- Grabber magnets

The Power to Transform WASTEFUL to SUSTAINABLE
SPC-50S
HIGH TANK WITH TRAY FEED

SPECIFICATIONS

<table>
<thead>
<tr>
<th></th>
<th>Total Height</th>
<th>Tank Height</th>
<th>Length</th>
<th>Width</th>
<th>Equipment Weight</th>
<th>Operating Weight</th>
<th>Crated Weight</th>
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**Diagram:**

- E1 - Pulper Drive Motor
- E2 - Extractor Drive Motor
- E3 - Return Pump Motor
- E4 - Fresh Water Solenoid
- E5 - Pulper Limit Switch
- E6 - Chute Limit Switch
- E7 - Chemical Additive Pump
- E8 - Junction Enclosure
- E9 - Autorinse Solenoid

- P1 - Drain Valve Outlet (MOV)
- P2 - Auto-rinse Inlet
- P3 - Return Water Outlet
- P4 - Fresh Water Inlet
- P5 - Overflow Outlet
- P6 - Trough Flush (see page 4)
SPC-50S
WASTE REDUCTION SYSTEM

9" TROUGH FLANGE DETAIL

12" TROUGH FLANGE DETAIL

PULPER TROUGH DETAIL

TROUGH DETAIL

ALL ITEMS IN THIS DETAIL NOT FURNISHED UNLESS NOTED.
Trough can be rotated on the center point of the tank by 15 degree increments. Actual entry points to the tank will depend on trough orientation, left, right or center position. Trough can not come in contact with extractor area (shaded portion).
SPC-50S
WASTE REDUCTION SYSTEM

CUSTOMER POWER SUPPLY
(BY ELECTRICAL CONTRACTOR)
208V-30-60Hz-35AMPS
460V-30-60Hz-20AMPS

SPC-50S
SOM-A-TROL

LOCATION SERIAL

EMERGENCY STOP
CHUTE OVERFLOW
START BUTTON/LIGHT
STOP BUTTON/LIGHT
TIMED STOP BUTTON

(16) CONDUCTORS FOR REMOTE PUSH BUTTON AND MACHINE CONTROLS, 18AWG OR BETTER
(BY ELECTRICAL CONTRACTOR)

CONDUCTORS FOR MACHINE MOTORS, INCLUDES GROUND
(8) WIRES INCL. GRD., 14AWG
(BY ELECTRICAL CONTRACTOR)

CONDUIT OR CABLING REQUIRED TO HOUSE/PROTECT PUSH BUTTON WIRING
ACCORDING TO JOBSITE REQUIREMENTS
(BY ELECTRICAL CONTRACTOR)

OPTIONAL REMOTED PUSH BUTTON STATION

START BUTTON/LIGHT
STOP BUTTON/LIGHT
TIMED STOP BUTTON

CONDUIT OR CABLING REQUIRED TO HOUSE/PROTECT PUSH BUTTON WIRING
ACCORDING TO JOBSITE REQUIREMENTS
(BY ELECTRICAL CONTRACTOR)

JUNCTION BOX
LOCATED ON PULPER

OTHER UTILITY REQUIREMENTS

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<td>Fresh Water</td>
<td>18 gpm @ 30 psig, ½” NPT (approximate usage 60 – 120 gph)</td>
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<tr>
<td>Drain</td>
<td>3” minimum floor sink, 4” recommended (with stainless steel removable basket recommended)</td>
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