

# Start-Up Check List Procedure

## ' SP-60 Close Coupled'

This checklist will cover Close Coupled Systems. This Start-up Check List will go through a step-by-step procedure on how to perform a "start-up and demonstration".

**Because of individual circumstances SOMAT cannot predict all of the problems that you may find, therefore if you have questions please call the service department for help and or clarification at 800-237-6628 ext. 126**

Walk through the system with the contractor so that he can show you the location of all the equipment and the location of all electrical disconnects. For a Close Coupled unit the equipment will be at one location.

### **Drawings:**

The (F) Final drawing will show the height dimension and layout of the equipment. This may need to be checked if the equipment interfaces with wall openings etc. All equipment has been manufactured to approved prints. It also shows the plumbing as to what was supplied by SOMAT and what was to be supplied by " Others ".

The (FE) Final Electric drawing will show all information needed by the electrician plus the control logic for the system. This drawing will show what was wired by SOMAT and what was to be supplied by " Others ".

### General Layout

1. Equipment installed Per Dwg. F- (final)
2. Check that the unit is level and plumb
3. Gasket installed between the pulper inlet and the trough.
4. If the system has a tray be sure the gasket and anti-bacterial curtain are installed.
5. On UDT (under dish table) units refer to detail A on the (F) drawing.
  - A. Check that cone adapter is welded in properly.
  - B. Be sure lid fits properly and activates switch.

### Plumbing; Piping sizes are NOT to be reduced !

1. Confirm all piping is in accordance with Dwg. F- (final)
2. Fresh water supply line is 1/2". The equipment must have adequate water supply to operate properly. The plumbing print will call out the required PSI. Note Check that cold and hot water supply lines are not crossed.
3. Insure proper pipe bracing.
4. Overflow line; There is a 1 1/2" bulkhead fitting coming off the side of extractor shell that needs to be piped to the floor sink or floor drain. Pulper drain valve located at the end of Pulper to be piped to the floor sink. Overflow line for backflow preventor run to floor drain (plastic tubing).

5. Review trough piping details, all trough nozzles / inlets must be according to print. **(No ball valves accepted)**

#### Electrical

1. Confirm that Som-A-Trol panel is properly installed. Airline run thru conduit from Som-A-Trol to junction box and hooked up (3/8" airline).
2. Check for proper voltage (3 Phase) according to electric print / Dwg. FE- (final electric)
3. Inspect interconnecting wiring **between panel, junction box and pushbutton station.**  
(confirm proper connections)
4. Set / confirm overload settings per Dwg. FE- (final electric)
5. Check motor rotations and correct as needed. (Pulper drive, extractor drive, return pump)

#### Power on Testing

1. Close all drains and lids
2. Turn on power, release stop lock out. (Unit should Pre-fill; if not ck fresh water supply)
3. Adjust pressure switch in panel to turn water off within 1" of top of security ring.  
(Drain and repeat, water should stop at set level, see diagram in manual)
4. When "Green" start button lights, push to start unit, check for leaks.
5. A constant level will be seen in the pulper and there should be an over-flow out the drain valve piping of approx. 1-3 gpm and the fresh water supply valve should cycle.
7. Monitor correct amp draw on all motors and record on start up form.

**( Special attention to return pump motor for overamping ! )**

**Demonstration to Customer / Operators :** See Demonstration page.

#### **Common Mistakes:**

1. Electrical connections done by electrician (dashed lines on FE prints, Pushbutton station, crossed to junction box, air line thru conduit)
2. Crossed water lines (hot & cold)
3. Lid area on UDT models (not lining up, not activating magnetic switch)

## **Demonstration to the Operators ( Close Coupled Systems )**

1. Turn main disconnect on the panel to the on position.
2. Close all drain valves, pulper and silver-saver.
3. Close pulper and chute lids.
4. Release the latch on the stop button. (Explain the 'pre-fill' for the system)  
While the pulper is pre-filling instruct them on what can be put into the equipment; all food waste, paper products, cooked bones, Styrofoam and some small plastic. Also explain what not to put into the system, like metal (silverware), glass, rags anything that would be considered non-pulpable.
5. Instruct on feeding; not to put food waste into the trough without the system turned on and the return flow coming down the trough to push the waste into the pulper. Do not 'slug feed' the system. (Dumping large quantities of waste at one time, the system is designed for steady continuous feeding.)
6. After they have put the last of the waste into the system tell them to let it run for a minimum of 10 minutes after the last waste is fed before pushing the stop button to turn the system off.
7. If the unit is equipped with a rinse system they should turn the selector switch to "Empty" and let the machine time out.
8. Turn the main disconnect off.
9. Open the pulper lid and scoop out any of the floatables left.
10. Open the drain valves at the pulper and silver-saver (if so equipped).
11. With a hot water hose and toilet bowl brush clean the inside of the pulper. Make sure that the underside of the lip is cleaned. Remove any waste and non-pulpables left in the bottom of the pulper.
12. Remove the access door from the extractor, using the hot water hose and brush clean the inside of the extractor shell and screen.
13. Have the operators start and shut down the system to insure they understand the proper procedures.
14. Have the managers and operators sign the start-up form and turn the system over to them.
15. Wish them happy pulping!