



## **Service Bulletin**

CAS<sup>TM</sup> Tank

Scheduled Maintenance Instructions  
for High Volume Systems



## GENERAL INFORMATION

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### Introduction

This document provides the instructions necessary to perform maintenance on **CAS** tanks of high volume **STS** vacuum systems. Due to the large amount of material processed and the real possibility of dental waste material in the existing system piping, these systems have a greater chance of clogs resulting in float assembly malfunction. Since a well-organized maintenance program aids dependable equipment operation and reduces breakdown to a minimum, it is essential that these maintenance instructions be followed completely. The routine cleaning will remove any built up deposits in the piping system and the tank inspection will verify proper drainage before a failure causes a prolonged shut-down.

**Note:** Make copies of the maintained logs as necessary to insure availability to record completion of maintenance task.

The two logs provided in this document (pages 7 and 9) must be maintained by recording the date and personnel initial performing the specific scheduled maintenance. Strict adherence to the maintenance schedule insures optimum equipment performance keeping downtime to an absolute minimum.

### Scheduled Maintenance Summary

**Daily** Clean drain lines from the operatory to the Buffer tanks with CleanStream™ Cleaner.

- Weekly**
1. Rinse out each tank with water
  2. Inspect tank interior for:
    - a. buildup at the base drain.
    - b. any evidence that liquids have reached the float assembly.

### Required - Not Supplied

<u>Part No.</u>	<u>Description</u>
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<b>57850</b>	2.5 Liter Bottle CleanStream Cleaner (125 applications)
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<b>57665</b>	CleanStream Dispenser System 1 Bottle with o-rings and caps 1 Saliver Ejector Adapter 1 High-Volume Actuator Adapter 1 Small Suction Hose Adapter 1 Large Suction Hose Adapter
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Part No.  
57850



CleanStream™ Dispenser  
System, Part No. 57665

## SAFETY NOTICE

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### Bio-Medical Waste

All maintenance personnel must be familiar with the procedures and practices for handling bio-medical waste and exercise every precaution to ensure personnel safety. Additionally personnel must follow all local, state and/or federal laws and regulations for the proper disposal of bio-medical waste. Any operation, procedure or practice, which, if not strictly observed, may result in injury or long-term health hazards to personnel.

## DAILY SCHEDULED MAINTENANCE

**Warning:** The following steps must be performed while wearing skin and eye protection designed for handling bio-medical waste. Use care at all times to prevent spillage.

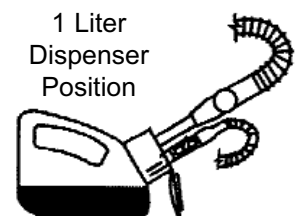
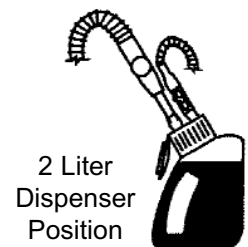
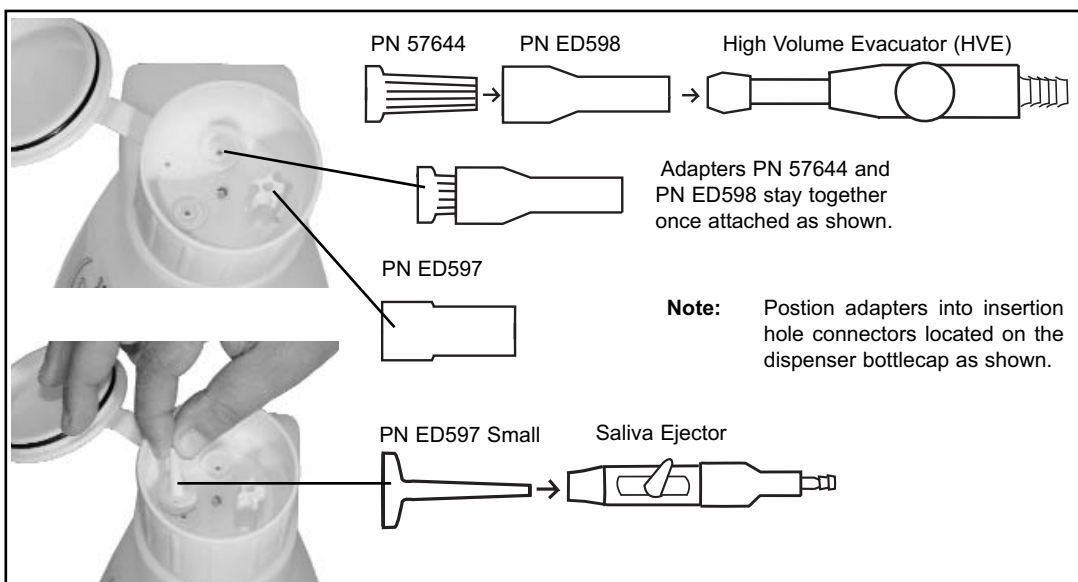
**Caution:** Use only CleanStream™ Cleaner to maintain the system vacuum lines. Do not use chlorine bleach or solutions of sodium hypochlorite to disinfect the STS system. These materials may result in damage or destruction of equipment or loss of system performance.

### Daily Maintenance Procedure

Clean all vacuum lines in the vacuum system with CleanStream™ Cleaner **daily** as part of the overall preventive maintenance program. This helps to maintain the cleanliness of the **CAS™** tank as well as the vacuum lines and tubing throughout the system. Using the 2.5 liter bottle of CleanStream™ Cleaner, PN 57850 and the CleanStream™ dispenser system, PN 57665, prepare the cleaning solution and clean the system daily by performing the following steps.

**Note:** The CleanStream™ Dispenser can hold a maximum of 2 liters of solution for cleaning up to 2 operatories. Mix solution quantity as necessary.

1. Fill the CleanStream dispenser with tap water as applicable;
  - a. to the line marked 1 L for 1 operator
  - b. to the line marked 2 L for 2 operatories
2. Using the 20ml measuring line in the CleanStream Cleaner bottlecap, add the CleanStream Cleaner concentrate to the dispenser as applicable;
  - a. for 1 operator, add 20ml of CleanStream concentrate to the 1 liter of water
  - b. for 2 operatories, add 40ml of CleanStream concentrate to the 2 liters of water
3. As shown below, the interior of the CleanStream dispenser bottlecap is configured with three holes for the insertion of HVEs and SEs via provided adapters as follows.
  - a. attach saliva ejector to smallest atomizing adapter
  - b. attach 1 or 2 high volume ejectors to respective adapter(s)
4. Refer to illustrations below and place dispenser in the 2-liter vertical position or the 1-liter horizontal position as necessary.
5. With the vacuum pump on and handpiece valves open, aspirate the CleanStream solution from dispenser.
6. After each cleansing procedure, disconnect the handpieces and rinse the dispenser.
7. Record task completion on Operatory System Task Log.



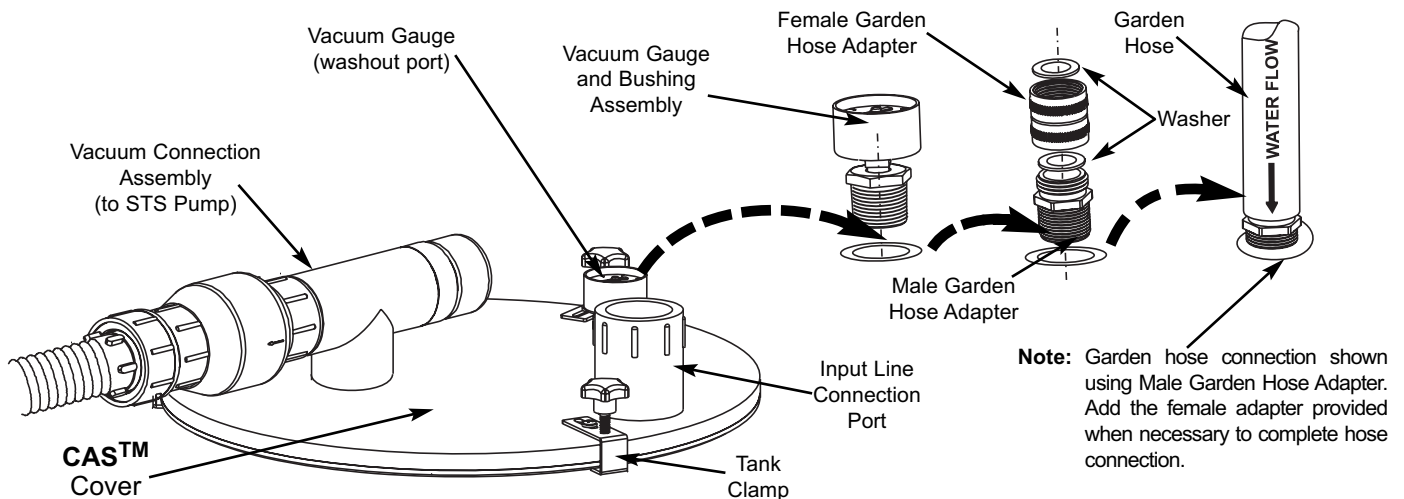
## WEEKLY SCHEDULED MAINTENANCE

### Weekly Tank Maintenance Procedure

Although the **CAS** uses patented technology to provide cyclonic action cleaning within the tank during normal operation of the **STS™** system, the tank does need to be inspected and cleaned weekly to insure proper operation and remove any solids trapped in the tank to prevent drainage problems. Procedures to inspect and clean the **CAS** tanks are provided by the following steps.

**Rinse/Washout Tank:** Refer to Figure 2 and washout each system tank as follows:

1. Turn OFF the power to the **STS™**.
2. Remove the vacuum gauge and bushing assembly from the washout port.  
**Important:** Use wash-out port to check liquid level in tank prior to connecting hose. Adding water to a full tank will cause backup and overflow of tank contents.
3. If the **CAS** is filled (drain backed up) perform the Tank Interior Inspection procedure below. If ok proceed to step 4.
4. Install the male garden hose adapter to the wash-out port on the **CAS** cover  
**Note:** A Female Garden Hose Adapter is also provided to complete the connection to the male-end of the garden hose if required.
5. Making sure to include washers, connect the garden hose to the associated adapter(s)
6. Turn ON the water source and let the water run through the **CAS** for approximately 5 minutes.
7. Remove the male garden hose adapter from the **CAS** and re-install the gauge and bushing assembly using teflon tape.
8. Perform the Tank Interior Inspection procedure below.



**Figure 2. Stainless CAS Washout Port Detail**

**Tank Interior Inspection:** Refer to Figure 2 and inspect all system tanks as follows:

1. Loosen and remove the three Tank Clamps securing the cover to the tank.
2. Carefully lift and remove the cover from the tank making sure not to damage the connecting hoses. Remove hose connection if hose length makes cover removal difficult
3. Inspect tank interior for clogs. Clear drain blockages using standard plumbing practices.
4. Inspect float assembly for signs of recent submersion in water.
5. Record observations and task completion on CAS Tank Inspection Task Log.

# Operator System Cleaning Task Log

[illegible]

## MAINTENANCE LOG

**Note:** Make copies of the maintained logs as necessary to insure availability to record completion of maintenance task.

[illegible]

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## CAS Tank Inspection Task Log

20 Gallon BufferTank 1			20 Gallon CASTank 2			20 Gallon CASTank 3		
Weekly Inspect			Weekly Inspect			Weekly Inspect		
Date	Initial		Date	Initial		Date	Initial	
		Comments			Comments			Comments
		Comments			Comments			Comments
		Comments			Comments			Comments
		Comments			Comments			Comments

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