

STANDARD OPERATING PROCEDURES
DIVISION OF COMPARATIVE MEDICINE
UNIVERSITY OF SOUTH FLORIDA

SOP#: 1147.1

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Page 1 of 2

TITLE: Amsco® Century Model SV-148 and SV-160 Pre-Vac Steam Sterilizer
SCOPE: Research and Animal Care Personnel
RESPONSIBILITY: Facility Manager, Surgical Core Manager, Professional and Administrative Staff
PURPOSE: To Outline the Proper Procedures for Use and Maintenance of Amsco® Century Model SV-148 and SV-160 Pre-Vac Steam Sterilizers

I. PURPOSE

1. This procedure outlines the use and maintenance of the Amsco® Century Model SV-148 and SV-160 Pre-Vac Steam Sterilizer units used to sterilize/decontaminate equipment and supplies used for research and husbandry at the Johnnie B. Byrd Sr. Alzheimer's Center (ALZ) and Research Institute Facility and the H. Lee Moffitt Cancer Center & Research Institute Stable Research Building Facility (SRB).

II. RESPONSIBILITY

1. It is the responsibility of the Facility Manager in conjunction with the Surgical Core Manager to ensure that equipment is appropriately cleaned, maintained in good working order, and available for research personnel as requested.
2. It is the responsibility of the veterinary professional, administrative, and managerial staff, to ensure that all research and technical staff using this equipment are adequately trained and experienced.

III. EQUIPMENT USE

Note: Operator should be familiar with the Amsco® Century Model SV-148/SV-160 Pre-Vac Steam Sterilizer operation manual, and **SOPs #1002 Monitoring Autoclave Sterilization, #1006 Autoclave Sterilization, and #1007 Verify Indicators** before operating this unit.

1. The SV-148 and SV-160 autoclaves should be **left on at all times**.
2. **Check that jacket pressure = 20 psi**. The autoclave will issue an auditory alarm if it is unable to maintain minimum jacket pressure.
3. Check unit to **ensure printer tape is present**.
4. Position rack cart in front of interior rack and roll out rack onto cart. Place items to be autoclaved on interior rack. **Items should not be tightly stacked and arranged to facilitate the circulation and penetration of steam**. Return interior rack to chamber and disengage cart.

5. **Close chamber door**
 - a. ALZ- by using the computer touch screen located on either side of the autoclave.
 - b. SRB- by turning handle counter-clockwise.
6. **Select appropriate cycle** using computer touch screen:
 - a. #1 *Prevac*- time: 10 min. @ 132⁰C/270⁰F, dry time: 5 min
 - b. #2 *Gravity*- time: 25 min. @ 121⁰C/250⁰F, dry time: 5 min.
 - c. #3 *Liquid*- time: 45 min. @ 121⁰C/250⁰F, dry time: 0.
7. A buzzer will sound when the cycle is complete indicating the load is finished.
8. **After the pressure in the chamber reaches zero the door can be opened:**
 - a. ALZ- by using the computer touch screen
 - b. SRB- by turning the handle clockwise.

Caution: Autoclave unit and contents may be hot, wear appropriate protective equipment.

9. **Power can be turned off to the autoclave in the case of a steam supply interruption or for repairs** using the small power switch located:
 - a. ALZ- on the left of Room 19.
 - b. SRB - in Room Q093 middle interstitial area on the left.

IV. MAINTENANCE

1. **Periodically inspect and clean chamber** if materials spill (e.g. food, bedding)
2. **Keep outside of unit clean** by using a stainless steel cleaner.
3. Autoclave units are tested and verified as to proper function in accordance with **SOP #1002** and this verification is recorded on the **Autoclave Sterilization Record** and maintained in accordance with **SOP #010**.
4. Routine maintenance and non-routine service is performed by an authorized subcontractor and is documented in writing.
5. Equipment that functions without deficiency, receives regular preventative maintenance, and successfully passes verifications at the prescribed intervals as per SOPs is considered certified.

V. REFERENCES

1. Refer to manufacturer's instructions for additional information.

Approved:

Date: