HARVEY CHEMICLAVE 5000

OWNER AND OPERATOR GUIDE

OPERATING INSTRUCTIONS

FILLING AND CHECKING SOLUTIONS

The filling opening is located on top of the Chemiclave (see figure 1 below). The dust cover should be removed only for filling or checking solution level.

With the control knob in the "Depressurize" position, fill the solution reservoir with approximately 500 ml of Vapo Steril. The level of solution may be determined visually. A measuring cup is included for your convenience.

Since each cycle of the Chemiclave uses 15.7 ml of Vapo-Steril Solution, refilling of the solution reservoir is required after approximately 30 cycles. The "Solution: light (see figure 1 below) signals when the solution reservoir needs refilling.

When the solution reservoir is empty, the system will not build pressure and refilling with Vapo-Steril is necessary. The solution reservoir may be refilled at any time, whether the Chemiclave is hot or cold. If the solution reservoir is empty, turn the control knob to "Depressurize" before refilling (see figure 1 below)

Before refilling solution reservoir, dispose of exhausted solution by removing condensate tray (see Figure 1) and discarding contents. The condensate is contaminated and chemically altered and must not be reused. IF REUSED, CONDENSATE WILL NOT STERILIZE AND MAY DAMAGE YOUR CHEMICLAVE.

ACTIVATING CHEMICLAVE

Connect the Chemiclave to 115 Volts, 60hz only. Turn on the power switch (see figure 1 below). Two lights (see figure 1 below) indicate your Chemiclave is functioning properly. The "Power" light will remain on until turned off at the end of the day.

The "Temperature" light will remain on up to 15 minutes during the initial heating period. Your Chemiclave is designed to operate all day with minimal power consumption (only 500 watts, as against 1000 to 1250 watts for most other units). To save valuable time, leave it on to avoid "preheating" for each load.

When the "Temperature" light goes out initially, the Chemiclave is ready for use. After initial start-up, the "Temperature" light will illuminate intermittently, as the thermostat automatically maintains the optimum temperature for sterilization (132 degrees c). NO MANUAL ADJUSTMENTS ARE NECESSARY TO MAINTAIN THIS TEMPERATURE.

PREPARING ITEMS FOR STERILIZATION

Because of the possibility of transmitting micro-organisms from patients to professional personnel, contaminated instruments should be handled carefully. Hand-Scrubbing of sharp instruments should be avoided where possible and an ultrasonic cleaning device employed for this purpose.

All Instruments should be cleaned of blood, debris or extraneous material before being placed in the instrument tray. Upon completion of the cleaning process, instruments must be thoroughly rinsed in cold running water to remove any residue of ultrasonic solution or soap and then towel dried.

INCOMPLETE RINSING MAY RESULT IN THE ACCUMULATION OF SOAP ASH AND FOREIGN DEBRIS IN THE INSTRUMENT TRAY OR STERILIZATION CHAMBER.

Small objects such as burs and needles or items difficult to towel dry should be dipped in Vapo-Steril after rinsing to eliminate water. Handpieces should be cleaned according to manufacturer's instructions before sterilization. Lubricate handpieces according to manufacturer's instructions **following** the sterilization cycle.

Use only clean, preferably sterile oil. Handpieces may be placed in the tray with other instruments. If storage of sterile instruments is desired, sterilize in Harvey Sterilization Indicator Bags. These bags permit penetration by the chemical vapor, but preclude contamination by air-borne bacterin.

AVOID HEAVY OR MULTIPLE TIGHTLY WOVEN WRAPPINGS OR SEALED CONTAINERS. FOR STERILIZATION, CONTENTS MUST BE EXPOSED TO THE CHEMICAL VAPOR.

STERILIZING

Line the instrument tray with a Harvey Sterilizer Tray Liner and place items thereon. Close and latch the door. Turn the control knob (see figure 1 below) to "Pressurize". It is not necessary tp turn th "Time" control since the 20 minute cycle time is set automatically. The automatic cycle may be overridden by turning the "Time" control to other than 20 minutes.

The sterilization cycle is automatically controlled. Timing for 20 minutes will not begin until the chamber is pressurized to 20 psi. This automatic feature insures that each chamber load, regardless of size, will be exposed to the chemical vapors for at least 20 minutes at optimum pressure and temperature.

Because of the chemical action of Vapo-Steril, the sterilization cycle begins upon admission of solution into the heated chamber. The sterilization cycle consists of two phases: The condensation phase (0-20 pounds pressure) and the vaporization phase (20-40 pounds pressure). During the condensation phase, pressure rise time will vary depending on the number and size of items being sterilized.

At the conclusion of the sterilization cycle, a buzzer will sound and the "Sterile" Light will illuminate (see figure 1 below). Accordingly, it is not necessary to observe the pressure indicator gauge during the sterilization cycle.

COMPLETING THE CYCLE

BE CERTAIN CONDENSATE TRAY IS FULLY INSERTED IN PLACE TO PREVENT CONDENSATE SPILLAGE. When the Timer Buzzer and Sterility Indicator Light (see figure 1 below) signal completion of the sterilization cycle, turn the control knob to "Depressurize" (see figure 1 below).

An efficient system of coils assures condensation of virtually all chemical vapor in the chamber in approximately 25 seconds. AS A SAFETY FEATURE, THE DOOR IS DESIGNED TO BE OPENED ONLY AFTER THE CHAMBER IS EXHAUSTED.

The contents may be immediately removed. NO DRYING IS REQUIRED.

HELPFUL SUGGESTIONS

Your Chemiclave is unsurpassed as an instrument for sterilization in the professional office, clinic or hospital. Treat it accordingly. Following are useful comments:

PARTS

The Door Gasket should be replaced when damage, deterioriation, or wear may prevent proper seal. To maximize the life of the the gasket, leave door closed but unlatched when the Chemiclave is not in use.

MAINTENANCE

Exterior metal surfaces of your Chemiclave should be cleaned daily with Harvey Metal Polish. Care should be exercised to prevent polish from entering valve and timer stem openings in the solution reservoir.

Because of the detergent action of Vapo-Steril, debris from improperly cleaned instruments may accumulate in the chamber and instrument tray. Harvey Metal Cleaner should be used periodically as needed to remove such debris. AT LEAST WEEKLY CLEANING IS RECOMMENDED.

Figure 1

Chemiclave 5000