STAT*IM* 2000E

CASSETTE AUTOCLAVE™

- Operator's Manual
- Manual del Operador
- 用户使用说明

SciCan | Your Infection Control Specialist™

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1. Introduction

Congratulations on your selection of the STAT*IM* Cassette Autoclave®. We are confident that you have purchased the finest equipment of its type. The STAT*IM* is a compact, counter-top unit that features a number of sterilizing cycles designed to meet your needs and suitability for steam sterilization.

The details of installing, operating and servicing your STAT*IM*® are all contained within this operator's manual. To ensure years of safe, trouble-free service please read these instructions before operating this unit and keep them for future reference. Operational, maintenance and replacement instructions should be followed for the product to perform as designed. Contents of this manual are subject to change without notice to reflect changes and improvements to the Statim product.

The STAT*IM* 2000E cassette autoclave has been designed expressly for the rapid sterilization of instruments intended for immediate use. This allows you to sterilize instruments between patients. To decrease instrument turn-around time, the STAT*IM* 2000E does not have a post-sterilization drying cycle. Quick drying and cooling of the load at the end of the cycle is achieved through evaporation when the cassette is removed and opened immediately following the sterilization cycle. Because of the unique operation of the STAT*IM* 2000E, once the instruments are exposed to ambient conditions, their continued sterility cannot be assured. It is recommended to use these instruments immediately after they are comfortable to the touch.

The Statim is suitable for the sterilization of dental and medical instruments designed to withstand steam sterilization. The STAT*IM* is not designed to sterilize liquids, cloth loads, biomedical waste or materials not compatible with steam sterilization.
The processing of such loads may result in incomplete sterilization and / or damage to the autoclave. For more information about instrument suitability for steam sterilization, consult the manufacturers' reprocessing instructions.

2. Important Information

2.1 Disclaimers

Use only steam-process distilled water in your STAT*IM*. Deionized, demineralized, or specially filtered water should not be used. Never use tap water.

Do not permit any person other than certified personnel to supply parts for, service or maintain your STAT*IM*. SciCan shall not be liable for incidental, special or consequential damages caused by any maintenance or services performed on the STAT*IM* by a third party, or for the use of equipment or parts manufactured by a third party, including lost profits, any commercial loss, economic loss, or loss arising from personal injury.

Never remove the cover of the unit and never insert objects through holes or openings in the cabinetry. Doing so may damage the unit and / or pose a hazard to the operator.

IMPORTANT:

Follow local guidelines governing verification of the sterilization procedure.

2. Important Information

2.2 Unit overview

1 level indicator
2 keypad
3 reservoir cap/ water filter
4 LCD
5 power indicator
6 active indicator
7 power switch
8 power cable port
9 leveler feet
10 exhaust tube port
11 cassette

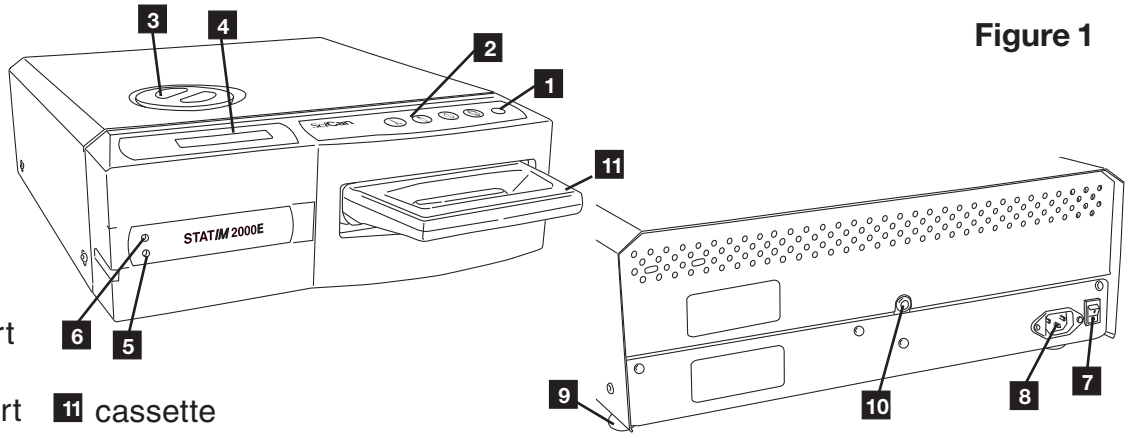


Figure 1

The following symbols appear in the margins of this book.

A potential hazard to the operator.

A situation which may lead to a mechanical failure.

Important information

The following symbols appear on the unit:

START button

UNWRAPPED cycles

RUBBER / PLASTIC cycles

Caution: Hot Surface and/or Hot Steam

Caution: Risk of electrical shock. Disconnect supply before servicing

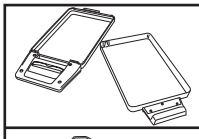
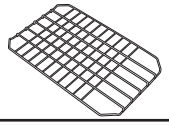
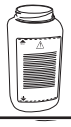
STOP button

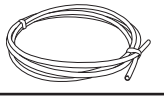
Power Indicator LED

Active Indicator LED

Caution: Refer to manual for details

When you receive your STAT/*M* 2000E packing carton, the items listed below will be included. If any of the items are missing, contact your dealer immediately so that the situation can be corrected.

	**Cassette Tray and Lid**
	**Unwrapped Instrument Rack**
	**Waste Bottle**
	**Bottle Lid Fitting**
	**Tube Mounting Hardware**

	**Power Cord**
	**Operator's Manual**
	**Exhaust Tube**
	**Stat-Dri**

3. Installation

3.1 Environmental Considerations

There are several factors that may affect the performance of your STAT*IM*.
Please review these factors, and select a suitable location in which to install the unit.

- **Temperature and Humidity**

Avoid installing your STAT*IM* in direct sunlight or close to a heat source (e.g. vents or radiators). The recommended operating temperatures are 15-25˚C (59˚F to 77˚F) with humidity of 25-70%.

- **Spacing**

The vents and openings on the STAT*IM* should remain uncovered and unobstructed. Leave a minimum of 50 mm/2˝ between the top, sides and back of the unit and any wall or partition.

- **Venting**

The STAT*IM* should be operated in a clean, dust free environment.

- **Work Surface**

The STAT*IM* should be placed on a flat, level, water-resistant surface.
Never install and operate the unit on a sloped surface.

- **Electromagnetic Environment**

The STAT*IM* has been tested and meets applicable standards for electromagnetic emissions. While the unit does not emit any radiation, it may itself be affected by other equipment which does. We recommend that the unit be kept away from potential sources of interference.

- **Electrical Requirements**

Use properly grounded and fused power sources with the same voltage rating as indicated on the label at the back of your STAT*IM*. Avoid multiple outlet receptacles. If using a surge suppressor power bar, plug in one STAT*IM* only.

3.2 Unit Placement

When placing the unit on a counter top, ensure the following:

- The level indicator bubble **1** on the front panel should be balanced in the front right quadrant of the target. This will ensure that the unit drains properly. Adjusting the three leveler feet will help you move the bubble if necessary.
- The unit should be stable and all four feet should be securely in contact with the counter surface.
  This will prevent the unit from moving freely.

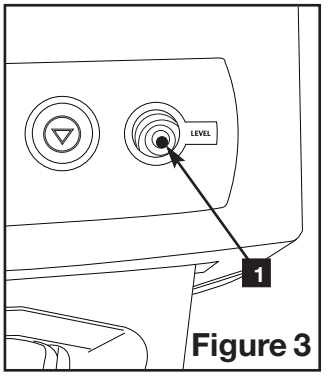


Figure 3

3. Installation

3.3 Connecting the Waste Bottle

The waste bottle 2 is used to collect the wastewater after it has been converted to steam and then drained from the cassette. To connect the waste bottle to the STAT*IM*, follow these steps (see Figure 4):

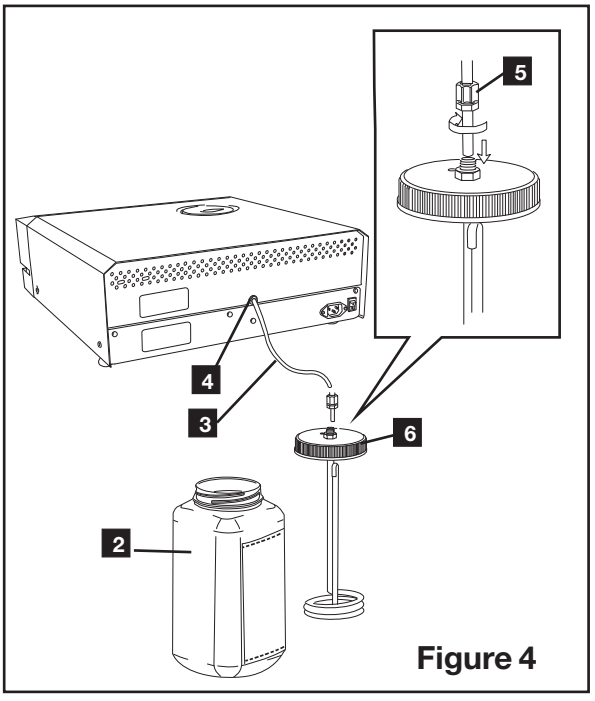


Figure 4

1. Insert the exhaust 3 tube into the fitting 4 on the back of the unit and connect tightly.
2. Cut the tube to length and slide the waste bottle fitting 5 into place.
3. Place the free end of the tube into the hole in the lid of the waste bottle and hand-tighten the fitting. Do not coil the exhaust tube.
4. Unscrew the lid and copper condenser coil 6 assembly from the waste bottle. The lid and coil should come out together.
5. Fill the waste bottle with water to the MIN line and replace the lid and copper condenser assembly. Empty the waste bottle often to avoid unpleasant odors and discoloration of the contents. (A low-level disinfectant, prepared according to the manufacturer's instructions, may be added to the waste bottle to remedy this situation). As a minimum, empty the waste bottle each time you refill the reservoir.
6. Place the waste bottle near the unit. Store the bottle below the unit. The tube can be routed through a hole, (8 mm/0.3˝ in diameter) in the counter-top and secured with the provided nylon clamps.

3.4 Filling the STAT*IM* Reservoir

When filling the reservoir, ensure you only use steam processed distilled water containing less than 5 ppm total dissolved solids (having conductivity of less than 10 µS / cm). The impurities and additives in other water sources will cause an error reading on the LCD. If you have a water conductivity meter (available from SciCan, order number 01-103139S) check each new water container before filling the reservoir. If your unit is equipped with a Rev 7 PCB or higher (software SxxxR6xx), you can read the water conductivity by refering to Section 5.9 Reading Water Quality.

3. Installation

To fill the reservoir, follow these steps (see Figure 5):

1. Remove the reservoir cap **2**
2. Pour steam-process distilled water into the reservoir until almost full (a maximum of 4L/1 U.S. gal). Use a funnel to avoid spillage.
3. Replace and secure the cap.

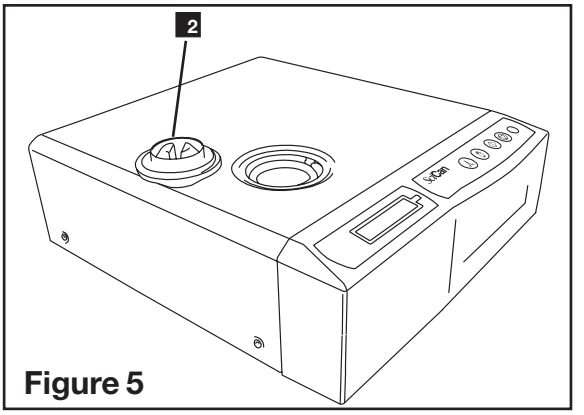


Figure 5

3.5 Priming the STAT*IM* Pump

To prime the STAT*IM* pump, follow these steps (see Figure 6):

1. Move the unit to the edge of the work surface. The front leveler feet should be approximately 12 mm/0.5˝ from the edge.
2. Lift the front left corner of the unit upward and remove the drain tube **3** from the clip located on the underside of the unit.
3. Pull the drain tube outward so the free end can be positioned over a water container.
4. Fill the reservoir with steam-process distilled water.
5. Remove the plug **4** from the end of the drain tube and allow water to drain from the tube into a container for 30 seconds. When the water flows in a steady stream, replace the stopper.
6. Lift the front left corner of the unit upward and reinsert the tube into the clip on the underside of the unit. Push the excess length of tubing back into the space provided.

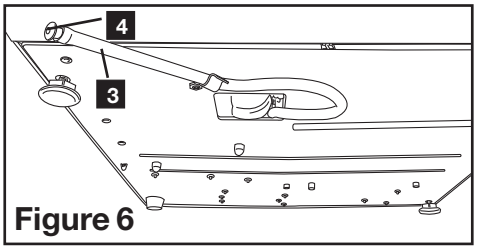


Figure 6

! Make sure the plug in the drain tube is secured.

! After installation, and before sterilizing any instruments, run two **RUBBER / PLASTIC** cycles. For further instructions, see Section 3.9 Preparing the Unit for Use.

3.6 Setting the Time and Date

To set the time and date, follow these steps and watch the blinking cursor on the LCD:

1. Power the STAT*IM* **OFF**.
2. Power up unit while pressing the **STOP** button to access the User Setup menu.
3. Use the UNWRAPPED cycle button to scroll to TIME/DATE setup and press the RUBBER / PLASTIC cycle button to select it.
4. Use the cycle buttons to select and change the selected field's value. To increase a field's value, press the UNWRAPPED cycle button. Hold the button down to increase the value.

18:00	20/09/2005
HH:MM	DD/MM/YYYY

Display when setting the Date / Time

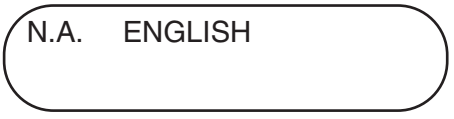
3. Installation

5. To select the next field, press the RUBBER / PLASTIC cycle button.
6. To save changes and return to the regular operating mode, press the **STOP** button.
7. To quit without making changes, power the STAT/*M* **OFF**.

3.7 Language Selection

The messages displayed on the LCD can be changed to a number of different languages. To change the current language selections, follow these steps:

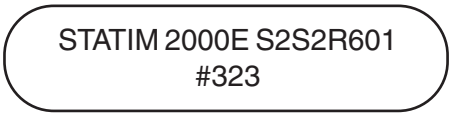
1. Turn the power switch at the back of the unit **OFF**.
2. Power up unit while pressing the **STOP** button to access the User Setup menu.
3. Use the UNWRAPPED cycle button to scroll to LANGUAGE setup and press the RUBBER / PLASTIC cycle button to select it.
4. Press the UNWRAPPED cycle button to scroll to the next language selection.
5. When the desired language is displayed, press the **STOP** button to save the selection and return to the regular operating mode.



Display when scrolling through languages

3.8 Assigning Unit Identifier Number

1. Power the STAT/*M* **OFF**.
2. Power up unit while pressing the **STOP** button to access the User Setup menu.
3. Use the UNWRAPPED cycle button to scroll to ID SETUP setup and press the RUBBER / PLASTIC cycle button to select it.
4. Using the cycle buttons, select a maximum of 3 digits to be used as the unit's identifier. The UNWRAPPED button will increase the selected value. Use the RUBBER / PLASTIC to move to the next digit.
5. To save changes and return to the regular operating mode, press the **STOP** button.



Display when assigning unit number

3.9 Preparing Unit for Use

Once the unit is installed and before any instruments are sterilized, run two RUBBER / PLASTIC cycles (see Section 4.6 Operating a Cycle). Remove the cassette once it has cooled. Clean the top (lid) and bottom (tray) sections using a soft cloth to wipe the inside surfaces and then rinse thoroughly with tap water. Once the cassette is clean and dry, coat the inside surfaces with STAT-DRI.

3.10 Shipping the Unit

Before you move the unit, you will need to drain the reservoir. To do so, follow these steps:

1. Place a water container below the unit.
2. Using the drain tube (see Section 3.5 Priming the STAT/*M* Pump, Figure 6) empty the contents of the reservoir into the water container.
3. Remove any remaining water from the reservoir with a non-linting, absorbant towel.
4. Screw-in the three leveler feet found underneath the unit.
5. Repack the unit in the original packing materials and include all accessories originally included with the unit.
6. Specify heated and insured shipping.

4. Instructions For Use

4.1 Using the Cassette

When removing the cassette after a cycle, exercise caution as the metal areas will be hot and the cassette may contain hot steam.

- **To open the cassette**:

1. Hold the cassette handle with your thumbs facing inward on the cassette latch.
2. Push downward on the cassette latch.
3. Raise the cassette lid upwards and disengage the hinge.
4. Rest the lid on its outer surface.

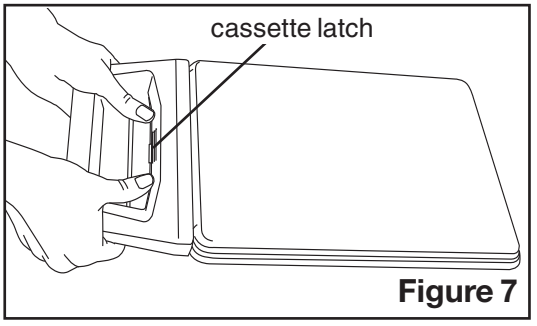


Figure 7

- **To close the cassette**:

1. Align the hinge tab on the cassette lid with the hinge slot on the rear of the bottom tray.
2. As you begin to close the lid, the hinge tab and slot will engage.

- **Inserting the cassette into the STAT*IM* 2000E**:

1. Place the end of the cassette into the unit.
2. Gently push inward until you hear a “click” sound.

Never push the cassette into the STAT*IM* with force as the interior components could be damaged.

- **Removing the cassette**:

1. Grasp the handle with two hands and pull away from the unit.
2. Pull the cassette clear of the unit and set down on a firm surface.

- **Disengaging the cassette**

When not in use, the cassette should be disengaged. To disengage the cassette, grasp the handle and pull the cassette out until there is a 15 mm to 20 mm (1/2 to 3/4") gap between the front of the STAT*IM* 2000E and the cassette handle.

- **STAT-DRI**

Treatment of the interior surfaces of the cassette with the STAT-DRI drying agent, provided with your unit, will minimize spotting. The water in contact with the hot cassette surfaces also evaporates much more efficiently. (Replacement bottles are available from SciCan, order number 2OZPLUS, 8OZPLUST, 32OZPLUS).

4. Instructions For Use

4.2 Preparing and Loading Instruments

Before loading any instruments into the STAT*IM*, consult the manufacturer's reprocessing instructions.

- **Clean Instruments**

Clean and rinse all instruments before loading them into the cassette. Disinfectant residues and solid debris may inhibit sterilization and damage the instruments, the cassette, and the STAT*IM*. Lubricated instruments must be wiped thoroughly and any excess lubricant should be removed before loading.

- **Unwrapped Instruments**

Arrange unwrapped instruments on the instrument rack in the tray so that they do not touch one another. This ensures that steam reaches all surfaces.

Instruments must not be stacked or piled in the cassettes.

- **Rubber and Plastic Instruments**

The following materials can be sterilized in the STAT*IM*:

Nylon, polycarbonate (Lexan™), polypropylene, PTFE (Teflon™), acetal (Delrin™), polysulfone (Udel™), polyetherimide (Ultem™), silicone rubber, and polyester.

When loading rubber and plastic instruments in the tray, leave a space between the instruments and the cassette walls. This ensures that steam reaches all surfaces.

The following materials **cannot** be sterilized in the STAT*IM*:

Polyethylene, ABS, styrene, cellulosics, PVC, Acrylic (Plexiglas™), PPO (Noryl™), latex, neoprene, and similar materials.

Use of these materials may lead to instrument or equipment damage. If you are unsure of your instrument's material or construction, do not load into your STAT*IM* until you have checked with the instrument manufacturer.

- **All Instruments**

The STAT*IM* is **NOT** intended for sterilizing textiles, liquids or biomedical waste. Instruments will remain sterile after a successful cycle until the cassette is disengaged from the unit. Unwrapped instruments, once exposed to ambient or external conditions, cannot be maintained in a sterile state.

SciCan recommends the final user carefully choose the most appropriate sterilization cycle according to the recommendations of their leading infection control authorities and local regulatory guidelines / recommendations.

- **Routine Monitoring**

Chemical process indicators suitable for steam sterilizers should be included in or on each package or load being sterilized. In addition, the weekly use of biological indicators, which allow you to ascertain whether the instruments have been exposed to sterilization conditions, is recommended.

4.3 Using Biological/Chemical Indicators

For detailed instructions on how to handle, use and dispose of both the biological and chemical indicators, please consult the product literature accompanying the biological indicators or contact the manufacturer directly.

To use the indicators with the STAT*IM*, follow these steps:

1. Place the appropriate biological indicator in the STAT*IM* chamber.
2. Process the load in the sterilizer according to your usual practice.
3. Ensure that the message “Cycle Complete” is displayed on the LCD after the cycle is finished.
4. Recover the biological and / or chemical indicator and process further according to the literature that accompanied the indicator.

At the first indication of a potential sterilization failure:

1. Do not process any more instruments until favourable test results have been returned.
2. Ensure the correct indicator type was chosen.
3. Ensure the cassette was not overloaded. Consult the earlier portion of this section for proper loading instructions.
4. If the results do not change, do not process any more instruments within the STAT*IM* and contact your SciCan dealer for further assistance.

Because the turnaround time for the biological indicator is up to 48 hours, it is recommended that the tests be conducted so that the incubation period occurs during a period of planned downtime such a the last cycle before a weekend.

4. Instructions For Use

4.4 Instrument Weight Guide

Instrument	Typical Instrument Weight
Scissors	30 g / 0.96 oz
Dental scalers	20 g / 0.64 oz
Forceps	15 g / 0.48 oz
Dental handpiece	40 to 60 g / 1.29 to 1.92 oz
Unwrapped instrument rack	225 g / 7.23 oz
Suction cannula	10 g / 0.32 oz
Plastic mouth mirror	8 g / 0.25 oz
Impression tray	15 to 45 g / 0.48 to 1.45 oz
Plastic x-ray positioning ring	20 g / 0.64 oz

NOTE: The above weights are to be used as reference only. For exact weights of your instruments, consult the manufacturer's specifications.

4.5 Selecting a Cycle

The STAT*IM* 2000E has two sterilization cycles, each designed to sterilize a specific type of instrument. The instruments will remain sterile after a successful cycle until the cassette is removed from the autoclave.

Unwrapped instruments, once exposed to ambient or external conditions, cannot be maintained in a sterile state and must be used immediately after they are comfortable to the touch.

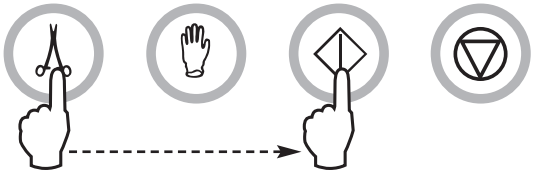
The types of instruments, sterilization requirements, and a graph depicting each cycle are described over the next few pages. Consult the Instrument Weight Guide in Section 4.4 for information on how to make up an appropriate load for the masses specified for individual cycles.

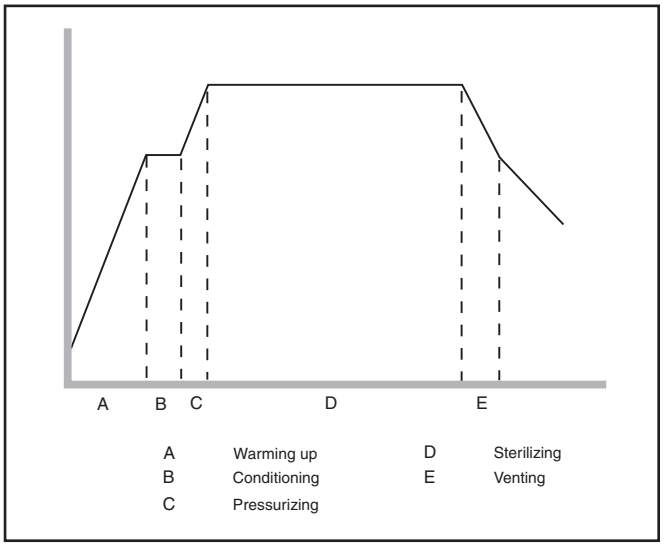
4. Instructions For Use

1. Unwrapped Cycle

The Unwrapped Cycle is a general purpose sterilization cycle used to sterilize up to 1.0 kg (2.2 lbs) of solid metal instruments such as pliers, burrs, scalers and forceps. Dental handpieces may be sterilized in this cycle.

To select the Unwrapped Cycle, press the Unwrapped Cycle button, then press the **START** button.

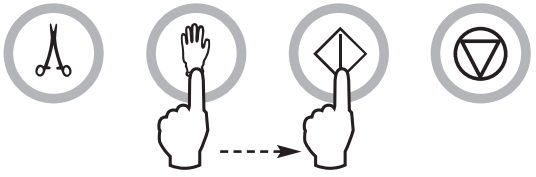


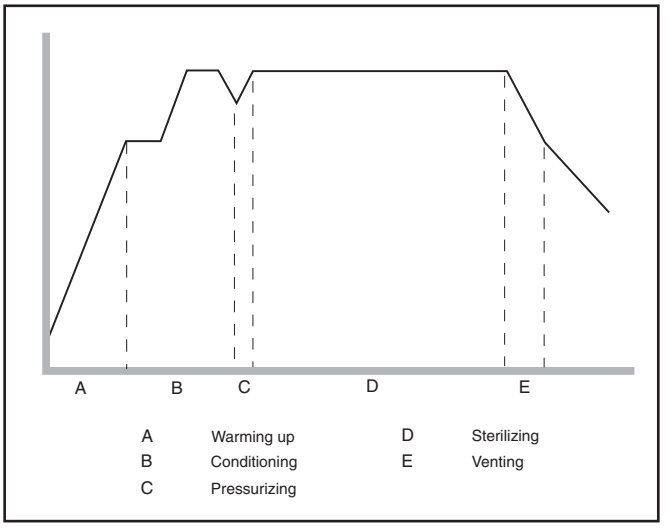


The sterilization temperature in the cassette is 134 ˚C (273 ˚F) and the holding time is 3.5 minutes. See Section 4.1 Using the Cassette, and Section 4.2 Preparing and Loading Instruments before running this cycle.

2. Rubber and Plastics Cycle

The Rubber and Plastics Cycle is used to sterilize up to 0.4 kg (0.9 lbs) of solid unwrapped instruments constructed of metal or the materials listed in Section 4.2 Preparing and Loading Instruments. To select the Rubber and Plastics Cycle, press the Rubber and Plastics Cycle button, then press the **START** button.





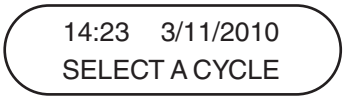
The sterilization temperature in the cassette is 121˚C / 250˚F and the holding time is 15 minutes.

4. Instructions For Use

4.6 STAT*IM* 2000E — Operating a Cycle

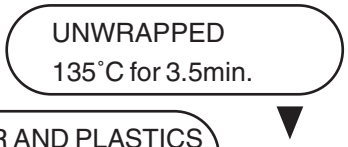
To operate each cycle, follow these steps and watch the LCD:

Turn the power switch at the back of the unit to **ON**.
The LCD Display reads:

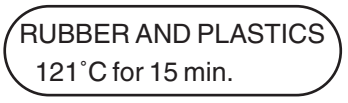


Press the appropriate cycle button on the keypad.

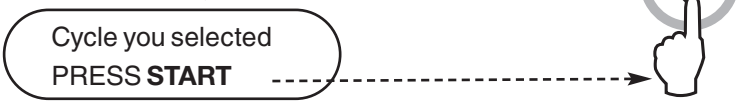
The display will read either:



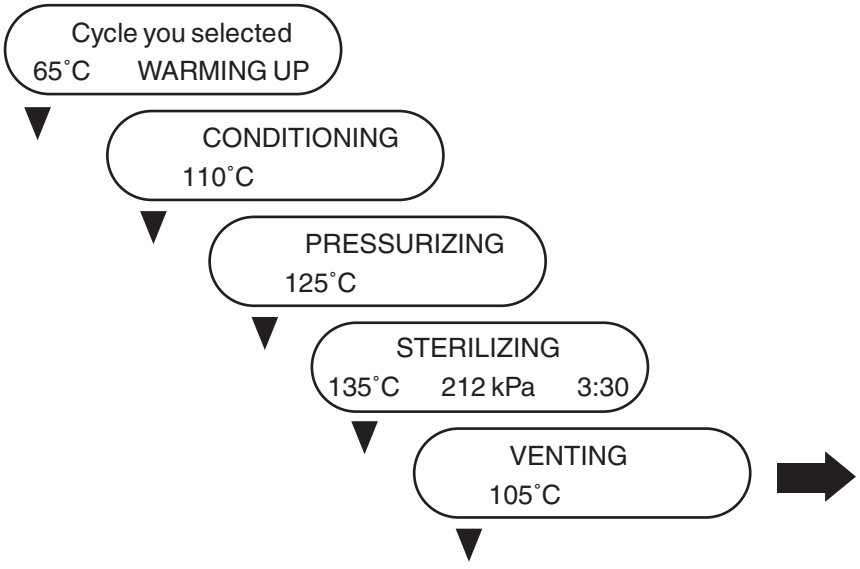
or



As the button is released the display appears similar to:



Press the **START** button to begin the cycle you selected. The amber indicator light comes on and two lines of messages are alternately displayed at 2 second intervals on the LCD. The top line alternates between the cycle name and the cycle stage in progress. The second line provides temperature readings, pressure values and, during the sterilizing stage, the time remaining in the cycle.



As a cycle is running, you will hear an intermittent buzzing sound as the pump injects water into the steam generator, and a click at random intervals as the exhaust valve opens and closes.

If a sterilization cycle is successful, the reminder tone sounds, the amber light flashes and the cycle name is displayed on the top line of the LCD until the operator presses the **STOP** button or the cassette is removed from the unit.

UNWRAPPED
CYCLE COMPLETE

When removing the cassette be careful. The metal parts will be hot, and the cassette will contain hot steam.

After the cassette is removed from the unit, it should be opened to hasten water evaporation from the unwrapped instruments.

4.7 Stopping a Cycle

To stop a cycle press the **STOP** button. If the **STOP** button is pushed, the cassette is removed, or the unit detects a problem while operating, the cycle will stop and the amber active light will flash. Once a cycle has been stopped, the **STOP** button must be pressed before another cycle can be started. The display reads any of the following messages:

CYCLE FAULT xxx
NOT STERILE

or

CASSETTE REMOVED
NOT STERILE

If the display shows the message, CYCLE FAULT or NOT STERILE, the cassette contents are not sterile! See Troubleshooting for more information.

5. Maintenance

5.1 Cleaning the Cassette

Keeping the STAT*IM* cassette clean is good clinical practice and assists in the function of the unit. SciCan recommends that the interior surface be cleaned at least once a week. Use dishwashing soap or a mild detergent that does not contain chlorine. Scrub the inside of the cassette with a cleaning pad designed for use with Teflon™ coated surfaces. After scouring, rinse thoroughly with water to remove all traces of the detergent. Cleaning the inside of your cassette is very important if you regularly sterilize lubricated instruments. Coating the entire inside surface with STAT-DRI/STAT-DRI PLUS drying agent induces water to form an even coat on the inside surface, without beading. The water in contact with the hot cassette surfaces also evaporates much more efficiently. Spotting is minimized and instruments dry much better. STAT-DRI/ STAT-DRI PLUS should be applied every 10 cycles, and after every cassette cleaning.

5.2 Cleaning the Water Reservoir Filter

The water reservoir filter should be cleaned at least once a week or when required. The filter can easily be removed and cleaned by placing the filter upside down under running water to wash away the particles until clean, and then placed back into the reservoir opening. If a replacement water reservoir filter is required, order part number 01-109300S.

5.3 Cleaning the Reservoir

Check the reservoir for dirt or particles. The reservoir may be cleaned by draining followed by cleaning and rinsing with steam process distilled water ONLY. Use of chemicals or cleaning agents is not reccommended and could cause the unit damage.

5.4 Cleaning the Exterior Surfaces

Use a soft cloth moistened with soap and water to clean all exterior surfaces.
Do not use harsh cleaning chemicals or disinfectants.

5.5 Replacing the Cassette Seal

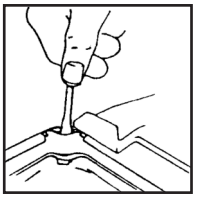
To ensure optimum performance of your STAT*IM* cassette autoclave, change the cassette seal every 500 cycles or every six months, whichever comes first. Replacement seals are available from SciCan (order number 01-100028S).

To change the cassette seal, follow these steps:

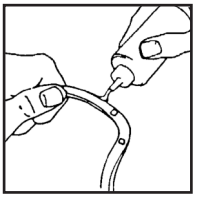
Place the cassette lid and the new seal on a clean work surface. Examine the position of the old seal in the cassette lid and arrange the new seal in the same orientation, next to the lid.

5. Maintenance

Remove the old seal and discard. Clean any residue out of the seal channel and flush out the channel with distilled water.

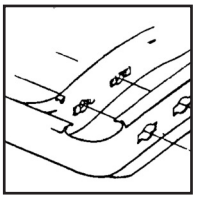


Lubricate the new seal with the liquid seal lubricant provided.



Insert the rounded edge of the seal under the round lip of the lid. Align the holes in the new seal with the holes in the lid.

NOTE: At every corner and at the holes in the lid, two square nibs should be visible. The nibs should fit flush with the lid's outer surface.



Ensure the seal is completely inserted. Feel around the periphery to ensure the seal is securely in place.

NOTE: During a cycle, steam may appear between the lid and the tray. If this persists, remove the cassette and check that the seal is correctly installed.

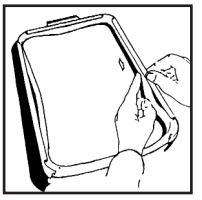


Figure 13

Be careful. The metal parts will be hot, and the cassette may contain hot steam.

5.6 Maintaining Fluid Levels

Use only steam-process distilled water containing less than 5 ppm total dissolved solids (having conductivity of less than 10 µS / cm) in the STAT*IM*. To fill the reservoir, remove the cap from the top of the unit and fill the reservoir. We recommend using a funnel to minimize spills. Each time you refill the reservoir, empty the waste bottle and refill with water to the MIN line. Empty the waste bottle often to avoid unpleasant odors and discoloration of the contents. (A low-level chlorine-free disinfectant, prepared according to the manufacturer's instructions, may be added to the waste bottle to remedy this situation).

5.7 Reading Water Quality

(units equipped with Rev7 PCB (software SxxxR6xx) or higher)

1. Power up unit while pressing the STOP button to access the User Setup menu.
2. Using the UNWRAPPED button, scroll to Water Quality and select it by pressing the RUBBER AND PLASTIC button.

>Water Quality CD=XXµS / yyy / z.z ppm	CD=conductivity XX= micro S. value yyy= engineering value z.z= parts per million value

5. Maintenance

5.8 Preventative Maintenance Schedule

To ensure trouble-free performance, both the operator and the dealer must follow a preventative maintenance schedule. **NOTE**: Please refer to your National, Regional, State or Safety laws for any additional reoccurring user testing that may be required.

The schedules below describe the necessary actions.

Operator		
Daily	Water Reservoir	• Replace water as needed.
	Waste Bottle	• Empty the waste bottle every time you refill the water reservoir. • Fill the bottle with water, up to the MIN line marking. You may also add some chlorine-free disinfectant.
Weekly	Cassette	• Wash the interior of the cassette with dishwashing soap or a mild detergent that does not contain chlorine. • Scrub the inside with a cleaning pad designed for use with Teflon™-coated surfaces. • After removing all traces of the detergent, treat interior surfaces of the cassette with the STAT-DRI™ Plus drying agent. Order more STAT-DRI™ Plus from your dealer quoting 2OZPLUS, 8OZPLUST, or 32OZPLUS.
	Water Filter	• Check the water reservoir filter every week and clean if necessary. Replace only if necessary.
Every 6 months	Cassette Seal	• Replace every 500 cycles or six months (whichever is first), or whenever necessary.

Technician		
Once a year	Cassette	• Check the tray, lid and seal for damage. Replace if necessary.
	Solenoid Valve	• Inspect the valve and clean if dirty. Replace the plunger if defective.
	Pump	• Clean the filters, replace if dirty.
	Water Reservoir	• Check the reservoir for dirt. Clean and rinse with steam process distilled water if necessary.
	Calibration	• Calibrate the unit.

6. Troubleshooting

Problem	Solution
Unit does not power **ON**.	Check that the unit is plugged into a properly grounded outlet and that the power cord is firmly seated at the rear of the machine. Try another circuit. Power unit **OFF** for 10 seconds and then power **ON** again. Check the condition of the line circuit breaker or fuse.
There is water under the machine.  	Check that water has not spilled when refilling the reservoir. Make sure the plug in the exhaust tube is secured. Remove and reinsert the cassette . Attempt another cycle. Be careful. The metal parts will be hot, and the cassette will contain hot steam. The cassette is leaking. If water drips from the underside of the unit during operation, check the cassette seal for misalignment or damage and replace the seal if required. Be careful. The metal parts will be hot, and the cassette will contain hot steam. Attempt another cycle. If it still leaks attempt another cycle using a different cassette if possible. If the leak persists, turn the unit **OFF**, remove and unload the cassette, unplug the unit, and call your dealer.

6. Troubleshooting

Problem	Solution
Cycle interrupted — NOT STERILE, Cycle aborted — NOT STERILE and CYCLE FAULT messages. 	Record the CYCLE FAULT number. Wait a few minutes and attempt another cycle before proceeding to the next solution. Remove the cassette. Be careful. The metal parts will be hot and the cassette will contain hot steam. Inspect the cassette to ensure that the holes in the back of the seal are perfectly aligned, and that the flexible lip of the seal is completely free. Check the exhaust tube for kinks or obstructions. If kinked, straighten the tube. If the tube can not be straightened, remove it from the push-in fitting attached to the STAT*IM*. Depress the collar on the fitting and, with the other hand pull firmly on the tube. Once the tube is free of the fitting, cut the damaged section of tubing away using a sharp instrument. Be sure that you leave enough tube to reach the unit when you re-attach the tube to the exhaust fitting. If the tube is too short to remove a section, contact your SciCan dealer for a replacement. Check that the STAT*IM* has not inadvertently been exposed to any electrical interference. Refer to the Installation section dealing with Environmental Considerations. (Section 3.1) Try running another cycle. If the problem persists, record the cycle fault message number and contact your dealer.
Excessive steam issuing from the front of the machine. 	Remove and reinsert the cassette. Attempt another cycle. Remove and check the cassette seal for misalignment or damage. Replace the seal if required. Be careful as the metal parts will be hot and the cassette will contain hot steam. If the leak persists, turn the unit **OFF**, remove and unload the cassette and contact your SciCan dealer.

6. Troubleshooting

Problem	Solution
Message WATER QUALITY IS NOT ACCEPTABLE. Machine will not start.	You have used water which is not steam-process distilled or is improperly distilled. Empty the reservoir and refill with steam-process distilled water containing less than 5 ppm total disolved solids (having conductivity of less than 10 µS / cm). If you have the water conductivity meter, check the quality of the water before refilling the reservoir. Refer to the steps described in Shipping the Unit to empty the reservoir.
Message REFILL RESERVOIR, Machine will not start.	The level of the water in the reservoir is low. Refill the reservoir. Refer to the steps described in Filling the Reservoir.
Time and date are incorrect.	The time and date have not been set. See Setting the Time and Date.

7. Spare Parts List

01-100780S	Bumper
01-100782S	Push-in Fitting
01-106030S	Cassette Lid Handle
01-100008A	Kit Cassette Final
01-100028S	Cassette Seal
01-100204S	Exhaust Tube
01-100271A	Kit Tray Cassette w/Mesh, Box Stat1
01-100724S	Condenser Bottle w/o Condenser
01-100735S	Waste Water Bottle Fitting
01-100612S	Tubing & mounting hardware
01-100812S	Condenser Bottle
01-100834S	Cassette Lid
01-101553S	Leveler
01-106653	Mesh Tray
01-108628	Operator's Manual ST-2000E
01-101647S	Power Cord NA
01-101766S	Power Cord UK
01-101768S	Power Cord Switzerland
01-101769S	Power Cord Italy
01-101779S	Power Cord Europe
01-101783S	Reservoir Cap
01-101787S	Water Reservoir Cap and Filter
01-109300S	Water Reservoir Filter
01-103475S	Tray
01-103865S	Seal Lubricant
01-104093S	Exhaust Tube 3m Long
01-104343S	Plug - Drain Tubing

ACCESSORIES

01-103139S	Conductivity Meter
01-103923	Condenser Additional Bottle
01-103945S	Rack-Tray Unwrapped Instrument Kit
2OZPLUS	STAT-DRI Plus 2 oz. Bottle w/sprayer
32OZPLUS	STAT-DRI Plus 32 oz. Bottle w/sprayer
8OZPLUS	STAT-DRI Plus 8 oz. Bottle w/cap
99-108332	Chemical Emulator 134˚C, 3.5 min.

8. Warranty

Limited Warranty

For a period of one year, **SciCan** guarantees that the **STAT*IM* 2000E**, when manufactured by **SciCan** in new and unused condition, will not fail during normal service due to defects in material and workmanship that are not due to apparent abuse, misuse, or accident.

The one year warranty will cover the performance of all components of the unit except consumables such as the cassette seal, the compressor filter and the microbiological filter, provided that the product is being used and maintained according to the description in the user's manual.

In the event of failure due to such defects during this period of time, the exclusive remedies shall be repair or replacement, at **SciCan's** option and without charge, of any defected part(s) (except gasket), provided **SciCan** is notified in writing within thirty (30) days of the date of such a failure and further provided that the defective part(s) are returned to **SciCan** prepaid.

This warranty shall be considered to be validated, if the product is accompanied by the original purchase invoice from the authorized **SciCan** dealer, and such invoice identifies the item by serial number and clearly states the date of purchase. No other validation is acceptable. After one year, all **SciCan's** warranties and other duties with respect to the quality of the product shall be conclusively presumed to have been satisfied, all liability therefore shall terminate, and no action or breach of any such warranty or duty may thereafter be commenced against **SciCan**.

Any express warranty not provided hereon and any implied warranty or representation as to performance, and any remedy for breach of contract which, but for this provision, might arise by implication, operation of law, custom of trade or course of dealing , including any implied warranty of merchantability or of fitness for particular purpose with respect to all and any products manufactured by **SciCan** is excluded and disclaimed by **SciCan**. If you would like to learn more about **SciCan** products and features, visit our website at **www.scican.com**.

9. Specifications

9.1 STAT*IM* 2000E — Specifications

Machine Dimensions:	Length:	485 mm (19")
	Width:	415 mm (16.3")
	Height:	150 mm (5.9")
Cassette Size (External):	Length:	410 mm (16") includes handles
	Width:	195 mm (7.67")
	Height:	40 mm (1.6")
Cassette Size (Internal):	Length:	280 mm (11")
	Width:	180 mm (7.1")
	Height:	35 mm (1.4")
Sterilization Chamber Volume:		1.8 L (61 fl. oz.) U.S.
Reservoir Volume:		4.0 L (140 fl. oz.) U.S.
Weight (Without water):		21 kg (46 lbs)
Clearance required:	Top:	50 mm (1.9”)
	Sides:	50 mm (1.9”)
	Back:	50 mm (1.9”)
	Front:	480 mm (18.9”)
Maximum Steam Temperature:		138 °C (280 °F)
Maximum Operating Pressure:		341 kPa abs (49.5 psia)
Electrical Rating* (+ / - 10 %):		110 V, 50 / 60 Hz, 11 A 220-240 V, 50 / 60 Hz, 6 A
*see serial number label for requirements specific to your unit.		
Protection Class:		I
Protection:		covered (indoor use only)
Ambient Operating Temperatures and Humidity:		15 °C to 25 °C (59 °F to 77 °F) and 25 % to 70 %
Altitude:		Up to 2000 meters (6600 ft)
Installation Category:		1