SciCan STATIM 2000S/5000S

CASSETTE AUTOCLAVE

Operators Manual Manuel de l'utilisateu - USB Manual del Operador - USB Manuale per l'operatore - USB Manual do Operador - USB Příručka uživatele - USB Betjeningshåndbog - USB Εγχειρίδιο Χρήστη - USB Kasutamisjuhised - USB Használati utasítás - USB Naudojimo instrukcija - USB Gebruikershandleiding - USB Brukerhåndbok - USB Podręcznik użytkownika - USB Руководство оператора - USB Navodila za uporabo - USB Bruksanvisning - USB Інструкція з експлуатації - USB Manual de utilizare - USB

Korisnički priručnik - USB







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764018507STATIM2000S2R

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USB **●**

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0123

12. Declaration of Conformity 46

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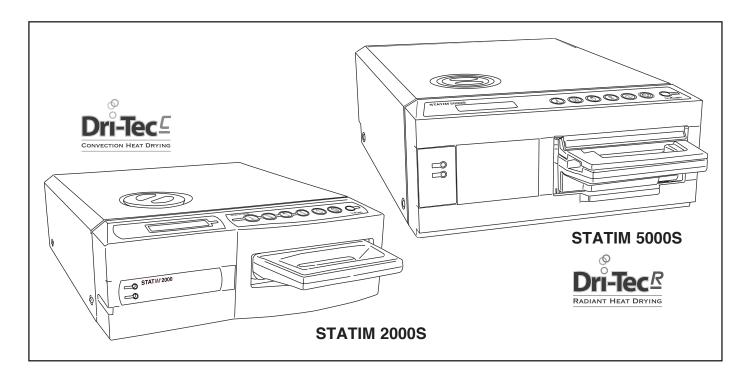
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1. Introduction



Congratulations on your selection of the STATIM® Cassette Autoclave. We are confident that you have purchased the finest equipment of its type. The STATIM is a compact, counter-top unit that features a number of sterilizing cycles designed to meet your needs and suitability for steam sterilization. The STATIM "S" Cassette Autoclaves are fully compliant with EN13060.

The details of installing, operating and servicing your STATIM 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.

Intended Use/Purpose

The STATIM is intended to be used by healthcare professionals for the sterilization of dental and medical instruments, including hollow instruments, designed to withstand steam sterilization.

The STATIM has not been 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 STATIM. 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 STATIM. The legal manufacturer shall not be liable for incidental, special or consequential damages caused by any maintenance or services performed on the STATIM 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.

All elements of this book are common to both STATIM 2000S and STATIM 5000S except when noted.

IMPORTANT:

Follow local guidelines governing verification of the sterilization procedure.

Any serious incidents should be reported to the manufacturer and/or the competent authority in which the user and/or patient resides.

This device should be disposed of in accordance with federal, provincial/state and local government requirements.

Drying Performance

The STATIM 2000S and 5000S have been designed to provide a complete sterilization solution for your unwrapped and wrapped instrument needs: rapid sterilization balanced with rapid drying, by using the STATIM Dri-Tec Drying Technology.

The STATIM 2000S uses convection heat to dry instruments by utilizing the remaining heat in the system after the sterilization phase. Heat is captured and released in the cassette to rapidly dry a properly loaded STATIM cassette.

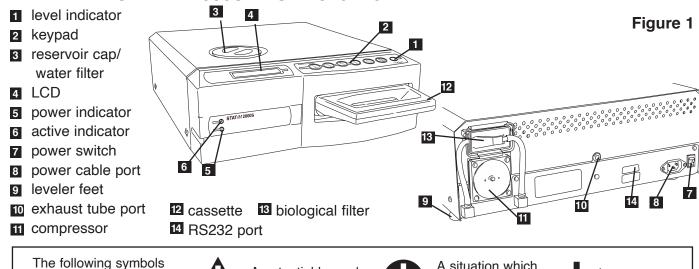
The STATIM 5000S uses heat generated by the sterilization phase which is absorbed by the drying plates. The heat is transferred from drying plates directly to the load resulting in accelerated, rapid drying of a properly loaded STATIM cassette.

Please refer to this operator's manual for instructions on the proper arrangement of instruments in the cassette and the use of STATIM Drying plates (STATIM 5000S). By carefully following these directions on how to properly load the cassette chamber, rapid drying of the load will be achieved.

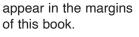
4

2. Important Information Con't.

2.2 STATIM 2000S — Unit overview



of this book.





A potential hazard to the operator.



A situation which may lead to a mechanical failure.



The following symbols appear on the unit:



START button



UNWRAPPED cycles



RUBBER / PLASTIC cycles



Caution: Hot Surface and/or Hot Steam



STOP button



WRAPPED cycles



Air dry only.



Caution: Risk of electrical shock. Disconnect supply before servicing



Steam distilled water only



Indicator LED



Active Indicator



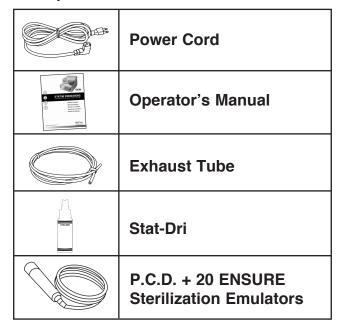
Caution: Refer to manual for details



Medical Device

When you receive your STATIM 2000S packing carton, the items listed below will be included. If any of the items are missing, contact your dealer immediately so the situation can be corrected.





2. Important Information Con't.

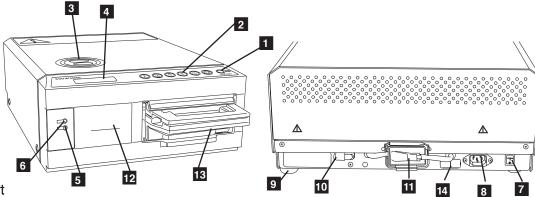
2.3 STATIM 5000S — Unit overview

Figure 2



- 2 keypad
- reservoir cap/
- 4 LCD
- 5 power indicator
- active indicator
- 7 power switch
- 8 power cable port
- 9 leveler feet
- exhaust tube port
- 11 biological filter

optional internal printer (not on all models)



13 cassette

14 RS232 port (not on all models)

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

STOP

button



UNWRAPPED cycles



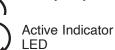
cycles



RUBBER / PLASTIC cycles



Air dry only.





Caution: Hot Surface and/or Hot Steam



Caution: Risk of electrical shock. Disconnect supply before servicing



Caution: Refer to manual for details



Medical Device



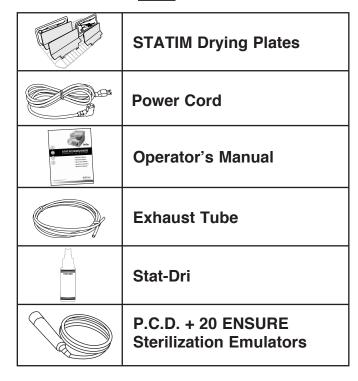
Steam distilled water only



Power Indicator LED

When you receive your STATIM 5000S packing carton, the items listed below will be included. If any of the items are missing, contact your dealer immediately so the situation can be corrected.





3. Installation

3.1 Environmental Considerations

There are several factors that may affect the performance of your STATIM.

Please review these factors, and select a suitable location in which to install the unit.

Temperature and Humidity

Avoid installing your STATIM in direct sunlight or close to a heat source (e.g. vents or radiators). The recommended operating temperatures are 15-25°C with humidity of 25-70%.

Spacing

The vents and openings on the STATIM should remain uncovered and unobstructed. Leave a minimum of 50 mm between the top, sides and back of the unit and any wall or partition.

Venting

The STATIM should be operated in a clean, dust free environment.

Work Surface

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

Electromagnetic Environment

The STATIM 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

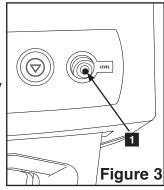
Use properly grounded and fused power sources with the same voltage rating as indicated on the label at the back of your STATIM. Avoid multiple outlet receptacles. If using a surge suppressor power bar, plug in one STATIM only.

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.

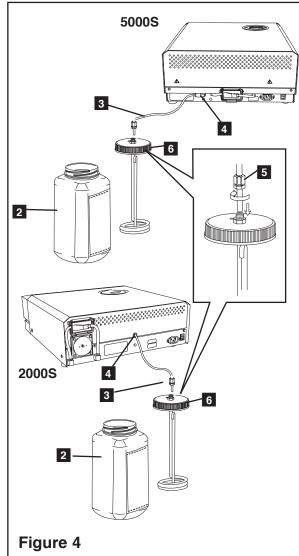


3.3 Connecting the Waste Bottle

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 STATIM, follow these steps (see 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 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 in diameter) in the counter-top and secured with the provided nylon clamps.





3.4 Filling the STATIM 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 μ S / cm). The impurities and additives in other water sources will cause an error reading on the LCD. If you have a water conductivity meter (order number 01-103139S) check each new water container before filling the reservoir. To fill the reservoir, follow these steps (see figure 5):

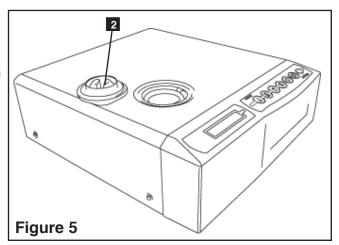


- 1. Remove the reservoir cap 2
- 2. Pour steam-process distilled water into the reservoir until almost full (a maximum of 4L). Use a funnel to avoid spillage.
- 3. Replace and secure the cap.

3.5 Priming the STATIM Pump

To prime the STATIM pump, follow these steps:

 Move the unit to the edge of the work surface. The front leveler feet should be approximately 12 mm 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.
- 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.

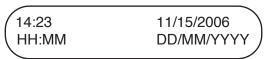
Make sure the plug in the drain tube is secured.

Figure 6

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 STATIM OFF.
- 2. Press and hold the UNWRAPPED cycle button.
- While pressing the UNWRAPPED cycle button, power the STATIM ON. The LCD display reads:



Display when setting the Date / Time

- 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.
- 5. To decrease the value, press the WRAPPED cycle button.

- 6. To select the next field, press the RUBBER AND PLASTICS cycle button.
- 7. To save changes and return to the regular operating mode, press the **STOP** button.
- 8. To guit without making changes, power the STATIM **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. Press and hold the WRAPPED cycle button.
- While depressing the WRAPPED cycle button, turn the power switch at the back of the unit to **ON**.

ENGLISH

Display when scrolling through languages

- 4. Press the UNWRAPPED cycle button to scroll to the next language selection.
- 5. Press the WRAPPED cycle button to scroll to the previous language.
- 6. When the desired language is displayed, press the **STOP** button to save the selection and return to the regular operating mode.

3.8 Assigning Unit Identifier Number

1. Power the STATIM **OFF**.

STATIM 2000 S2S2R601 #323

- 2. Press and hold the RUBBER / PLASTIC cycle button.
- Display when assigning unit number
- 3. While pressing the RUBBER / PLASTIC cycle button, power the STATIM **ON**.
- 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 and the WRAPPED cycle button will decrease it. 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.

3.9 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 Pump, Figure 6) empty the contents of the reservoir into the water container.
- 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 parts originally included with the unit.
- 6. Specify heated and insured shipping.

Disposing of packaging and decommissioned units

Your unit is shipped in a cardboard box. Please break down and dispose according to municipal requirements.

A decommissioned sterilizer should not be disposed of in the regular domestic waste. Doing so is potentially harmful to people and the environment. It has been used in a healthcare setting and represents a minor infection control risk. It also contains several recyclable materials that can be extracted and reused in the manufacture of other products. Contact your municipality to learn about its policies and programs governing the disposal of electronic devices

4. Instructions For Use

4.1 STATIM 2000S — Using the Cassette

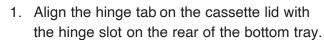


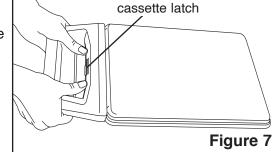
When removing the cassette after a cycle, exercise caution as the metal areas will be hot and the cassette may contain hot steam.

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.







- 2. As you begin to close the lid, the hinge tab and slot will engage.
- Inserting the cassette into the STATIM 2000S:
- 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 STATIM 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 STATIM 2000S 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 enhance the drying process. (Replacement bottles: order number 2OZPLUS, 8OZPLUS).

4.2 STATIM 5000S — 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. Push the carry handle 1 into the open position.
- 2. Put your hands on either side of the cassette handle.
- 3. Insert your forefingers in the slots and place your thumbs on the thumb pads.
- Press down with your thumbs and pull up with your forefingers until the lid opens.
- Raise the cassette lid and disengage from the tray. Rest the lid on its outer surface.
- To close the cassette:
- 1. Align the hinge tab on the lid with the hinge slot on the tray.
- 2. As you begin to close the lid, the hinge tab and slot will engage.
- 3. Place the carry handle into the closed position.
- Inserting the cassette into the STATIM 5000S:
- Hold the cassette handle in one hand and the carry handle in the other as shown in Figure 8.
- Figure 8
- 2. Place the end of the cassette into the unit and drop the carry handle into its closed position.
- 3. Gently push the cassette inward until you hear a click sound.



Never push the cassette into the STATIM with force as the interior components could be damaged.

Removing the cassette:

- 1. Grasp the cassette handle with one hand and pull out from the unit.
- 2. As the cassette emerges from the unit, grasp the carry handle with your free hand and lift it upwards.
- 3. Pull the cassette clear from 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 STATIM 5000S and the cassette handle.

4.3 STATIM 5000S — STATIM Drying Plates

The STATIM 5000S cassette uses STATIM Drying Plates to enhance the drying process for wrapped instruments. The adjustable plates are designed for the unwrapped instruments rack and eliminate the need for a separate wrapped instrument rack.

Up to ten plates can be arranged along the length of the rack. Each unit is shipped with five STATIM Drying Plates. Additional plates may be ordered (part number 01-103935).

To install and adjust a STATIM Drying Plates, follow these steps:

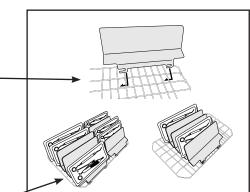
- 1. Hold a plate over the desired position, tilted slightly forward with the tabs down.
- 2. Insert the tabs between the mesh of the unwrapped instrument rack.
- 3. Each tab has an elongated slot. Slide the plate until the wire is at the end of each slot.
- 4. Release the plate to the resting position.
- 5. Prepare and load instruments for sterilization.

4.4 Preparing and Loading Instruments

Before loading any instruments into the STATIM, 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 STATIM. Lubricated instruments must be wiped thoroughly and any excess lubricant should be removed before loading.





Unwrapped Instruments

Arrange unwrapped instruments on the rack by spreading them as evenly as possible.



Wrapped Instruments (single wraps)

Place the instruments into single layer autoclave bags according to the manufacturer's instructions. Orient the instrument rack in the cassette to ensure that wrapped instruments rest approximately 6 mm / 0.25" above the cassette base. Place the wrapped instruments on the rack and arrange them to avoid overlap. Ensure that all wrapped loads are dry before handling and /or storage to maintain sterility.



The use of cloth wraps in the STATIM is not recommended.

We recommend the use of paper / paper and plastic / paper autoclave bags manufactured in accordance to EN 868. Loosely pack instruments in the bags to allow steam penetration to all instrument surfaces.

The wrapped instrument rack for the STATIM 5000S is designed to hold a maximum of 12 autoclave bags. Care must be taken to ensure that the combined weight of the loaded bags does not exceed 1.5 kg (3.3 lbs).

The unwrapped instrument rack fitted with a maximum of 10 STATIM Dyring Plates will hold 10 autoclave bags.



Rubber and Plastic Instruments

The following materials can be sterilized in the STATIM:

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, and will promote drying.



The following materials **cannot** be sterilized in the STATIM:

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 STATIM until you have checked with the instrument manufacturer.

All Instruments

The STATIM 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. If sterile storage is desired, wrap the instruments to be sterilized in autoclave bags, according to the instrument manufacturer's instructions. Then allow the wrapped cycle to run until the air-dry phase is complete.

Best Practice: Allow instruments (wrapped or unwrapped) to dry completely prior to handling. Wrapped or pouched instruments must not touch each other to promote drying and enable effective sterilization.

We recommend 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.

Note for Ophthalmology Use

In the field of ophthalmology, proper wrapping or pouching of surgical instruments will reduce the exposure of instruments to any process residues during the sterilization cycle. Due to the highly sensitive nature of some types of surgery (particularly in ophthalmology), we recommend that all instruments be routinely packaged or wrapped and processed through the wrapped cycle of the sterilizer. This practice is the suggested approach for the majority of sterile surgical procedures and is referenced in most leading infection control publications and guidelines.

4.5 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
Wrapped instrument rack	260 g / 8.35 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.

4.6 Selecting a Cycle

The STATIM 2000S and 5000S have seven sterilization cycles, each designed to sterilize using the parameters specified. Each cycle can be selected by pressing the UNWRAPPED, WRAPPED or RUBBER / PLASTIC cycle buttons.

The types of instruments, sterilization requirements and a graph depicting each cycle characteristics are described over the following pages.

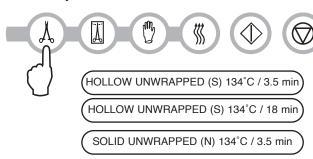


1. Unwrapped Cycles

The STATIM 2000S and 5000S feature two 134°C type S and one 134°C type N UNWRAPPED sterilization cycles. At the end of the cycle's sterilization phase, air drying will commence for one hour.

Air-drying can be interrupted at time by pressing the **STOP** button.

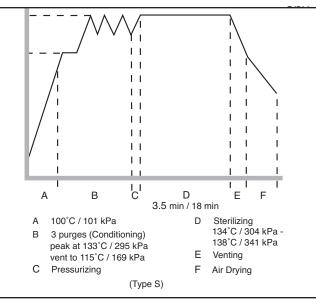
To select one of these cycles: Press the UNWRAPPED cycle button to scroll through the available cycles.

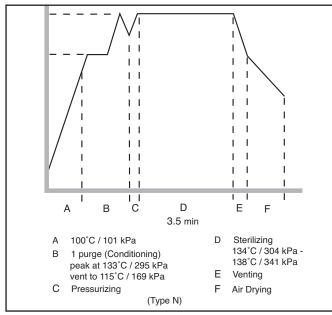


Once the desired cycle has been selected, press the **START** button.



The unit memory remembers the last cycle run and then displays this first when the unit is powered on.



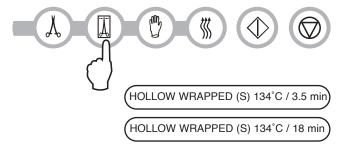


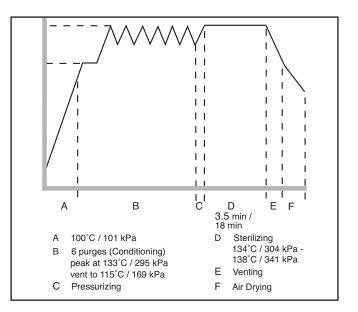


2. Hollow Wrapped Cycles

The STATIM 2000S and 5000S feature two WRAPPED 134°C type S sterilization cycles.

To select one of these S Cycles: Press the WRAPPED button to scroll through the available cycles.





Once the desired cycle has been selected, press the **START** button.



The unit remembers the last cycle run and then displays this first when the unit is powered on.

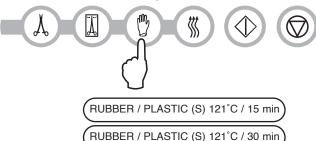
A Process Challenge Device (PCD) is available for validation of HOLLOW WRAPPED (S) 134°C/3.5 min cycle.

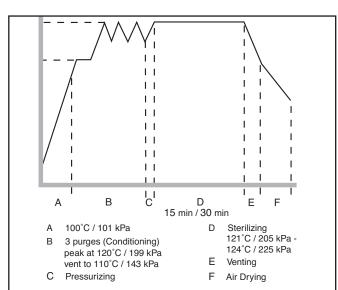


3. Rubber and Plastics Cycle

The STATIM 2000S and 5000S feature 121°C type S sterilization cycles.

To select one of these S Cycles: Press the RUBBER / PLASTIC button to scroll through the available cycles.





Once the desired cycle has been selected, press the START button.



The unit remembers the last cycle run and then displays this first when the unit is powered on.

4. Air Dry Only Cycle

This is not a sterilization cycle.

The load is considered sterile after the successful completion of the sterilization phase of the cycle. The Air Dry phase starts automatically after each sterilizing cycle and runs for 60 minutes.

Air drying may be interrupted by pressing the STOP button anytime after the sterilization phase of the cycle is complete. To ensure that the contents of the cassette are dry, the cycle should run for the full 60 minutes. Dryness is important for unwrapped instruments for corrosion prevention. For wrapped instruments, a dry wrap is required to maintain sterility.

If the STOP button is pressed during the air drying stage of the sterilization cycle, and the cassette has not been removed from the autoclave, the Air Dry Only cycle may be used to promote further drying. If the cassette has been removed from the autoclave, it may NOT be reinserted for the Air Dry Only cycle. If the cassette contains wrapped instruments and the wraps are not dry when the cassette is opened, the instruments must be handled in a manner that maintains their sterility and must be used immediately or resterilized.

NOTE: Sterilized instruments should only be handled once they are dry. Drying times can vary depending on the weight of load, 60 minutes is based on a maximum load per cycle. If best practices are exercised (refer to section 'Preparing and Loading Instruments' and 'Maintenance') and the load is less than the maximum capacity, instruments may be dry in less than 60 minutes.

To start, press the Air Dry Only Cycle button, then press the **START** button.

When started independently, this cycle will run for 1 hour.



4.7 Running a Cycle

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

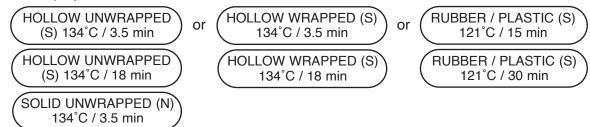
 Turn the power switch at the back of the unit to ON. The LCD display reads:

14:23 11/15/2006 SELECT A CYCLE

2. Press the appropriate cycle button on the keypad to scroll through the available cycles



The display will read either:



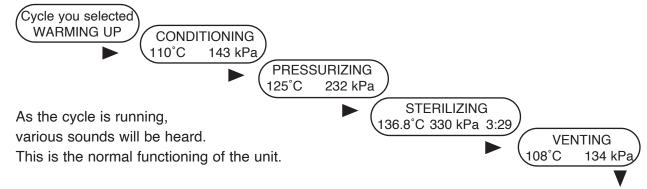
As the button is released the display reads:



The unit's cycle counter is displayed at the start, after the start button is depressed.

Cycle you selected
CYCLE NUMBER 000000

The amber indicator light comes on. To indicate that the cycle is in progress, the following messages are displayed as the cycle runs.



The buzzing noise during the air drying stage is the compressor operating. The air drying phase of the cycle may be interrupted at any time by pressing the **STOP** button. The display will read:

PLEASE WAIT

CYCLE COMPLETE

When the automatic 60-minute air drying stage is finished the display reads:

REMOVE CASSETTE

CYCLE COMPLETE

If a sterilization cycle is successful the reminder tone sounds and the amber light flashes until the **STOP** button is pressed or the cassette is removed from the unit.

4.8 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 section 7. Troubleshooting for more information.

If the air drying stage of the cycle is interrupted, do not store wrapped instruments that were in the cassette unless they are dry.

5. Maintenance

5.1 Cleaning the Cassette

Keeping the STATIM cassette clean is good clinical practice and assists in the function of the unit. We recommend 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 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 should be applied every 10 cycles, and after every cassette cleaning.

5.2 Cleaning the Water Reservoir Filter

This 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

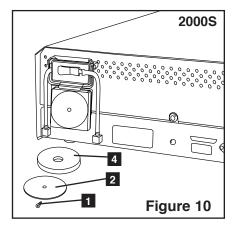
Use a soft cloth moistened with soap and water to clean all exterior surfaces. Do not use harsh cleaning chemicals or disinfectants.

5.5 Changing the STATIM 2000S Air Filter

The filter should be replaced every six months in order to maintain an adequate supply of clean air during the air drying cycle.

To change the filter, follow these steps:

- 1. Turn the power switch at the back of the unit OFF.
- 2. Remove and discard the old foam air filter 4.
- 3. Install the new filter 4 (part no. 01-100207S).
- Secure the filter plate 2 to the back of the compressor using the screw 1 retained during the disassembly procedure.



5. Maintenance

5.6 Changing the Bacteria Retentive Air Filters

The filters should be replaced every six months or after 500 cycles to maintain an adequate supply of clean air during the air drying cycle.

To change the bacteria retentive air filter on the STATIM 2000S and 5000S, follow these steps:

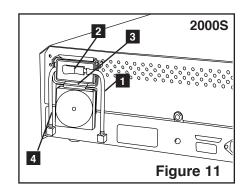
- 1. Power the STATIM OFF.
- Disconnect tube A 1 from the bacteria retentive filter 2 and remove the filter from the filter bracket 3. As you remove the filter from the bracket, note the orientation of the arrow mark on the filter.
- 3. When the filter is free of the bracket, carefully disconnect tube B 4 from the filter.
- 4. Before installing the replacement bacteria retentive filter 2 (order no. 01-102119S) check that the arrow mark on the filter matches the direction of the arrow on the bracket. Push the left hand filter fitting into tube B 4.
- 5. Gently press the replacement filter into the filter bracket 3. The arrow mark of the filter should be facing out and pointing to the left.
- Re-connect tube A 1 to the right hand filter fitting.

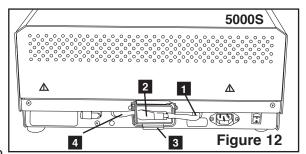


To ensure optimum performance of your STATIM cassette autoclave, change the cassette seal every 500 cycles or every six months, whichever comes first. Replacement seals are available (order number 01-100028S for STATIM 2000S and 01-101649S for STATIM 5000S).

To change the cassette seal, follow these steps:

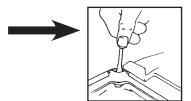
Place the cassette lid and the new seal on a clean work surface. Examine the position of the old seal in the cassette lid and arrange the new seal in the same orientation, next to the lid.





5. Maintenance con't.

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.

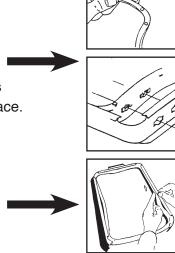


Figure 13



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

5.8 Maintaining Fluid Levels

Use only steam-process distilled water containing less than 5 ppm total dissolved solids (having conductivity of less than 10 μ S / cm) in the STATIM. 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).

5.9 Reading Water Quality

- 1. Power up unit while pressing the STOP button to access the User Setup menu.
- Using the UNWRAPPED and WRAPPED buttons, 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 con't.



5.10 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. For opthalmic use, drain at the end of every workday, leave empty, and refill at the start of the next workday.	
Q	Waste Bottle	Empty the waste bottle every time you refill the water reservoir. Fill the bottle with water, up to the MIN line marking.	
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 to enhance the drying process. Order more STAT-DRI™ Plus quoting 2OZPLUS, 8OZPLUST, or 32OZPLUS. 	
	Biological and/or Air Filter	Check the filter for dirt and moisture. Replace if dirty. Call for service if wet.	
	Water Filter	Check the water reservoir filter every week and clean if necessary. Replace only if necessary.	
ry	Cassette Seal	Replace every 500 cycles or six months (whichever is first), or whenever necessary.	
Every 6 months	Biological and/or Air Filter	Replace every 500 cycles or six months (whichever is first).	

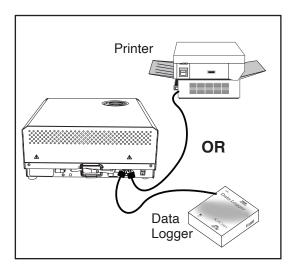
	Technician		
	Cassette	Check the tray, lid and seal for damage. Replace if necessary.	
	Biological Filter	Inspect the biological filter for moisture.	
	Solenoid Valve	Inspect the valve and clean if dirty. Replace the plunger if defective.	
ı year	Pump	Clean the filters, replace if dirty.	
Once a	Check Valve	 Remove the exhaust tube from the back of the unit during the air drying phase. Check for air coming from the fitting. Remove the air compressor tube from the check valve inlet while running a cycle. Make sure no steam is leaking from the valve. Replace if there are any leaks. 	
	Water Reservoir	Check the reservoir for dirt. Clean and rinse with steam process distilled water if necessary.	
	Calibration	Calibrate the unit.	

6. The Communication Port

6.1 The RS232 Communication Port



All STATIM units that do not have an internal printer will have an RS232 communication port that will allow you to connect to an external printer or to a STATIM Data Logger. For printing, you will need to purchase a recommended printer (see list below) from your local computer or electronics store. For data storage, you can purchase our USB Data Logger to record and store cycle information onto a mass storage device (MSD) such as a USB Flash Drive or SD memory card.



Printer Model	End Of Line CR/LF	Serial Port Bitrate	Printer user ° character
Epson TM-U220D (C31C515603)	CR/LF	9600	248 [0xF8]
Citizen IDP-3110-40 RF 120B	CR	9600	N/A
Star Micro SP212FD42-120	CR	9600	210 [0xd2]
Star Micro SP216FD41-120	CR/LF	9600	210 [0xd2]
Star Micro SP512MD42-R	CR/LF	9600	210 [0xd2]

Under normal storage conditions, a thermal document will remain legible for a minimum of 5 years. Normal storage conditions include avoiding direct sunlight, filing in office temperatures below 25 degrees Celcius and moderate humidity (45-65% relative humidity) and not next to incompatible materials including plastic, vinyl, hand lotion, oil, grease, alcohol-based products, carbonless paper and carbon paper.

STATIMData Logger	End Of Line CR/LF	Serial Port Bitrate	Printer user ° character
For Mass Storage Device*	N/A	9600	32 [0xd2]

^{*} Due to a variety of software programs/viewers that can be used to view the data files stored on a mass storage device such as a USB memory stick, we recommend the above settings.

For your STATIM to communicate to a specific device, you must enable this function through the User Setup menu. Follow the instructions in section 6.2 Installing the STATIM Data Logger below to enable communication to either an external printer or the STATIM Data Logger.

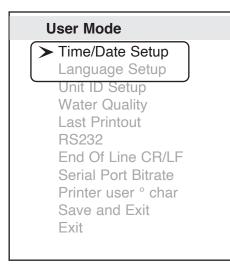
6.2 Installing the STATIM Data Logger

Our USB Data Logger can record and store cycle information onto a mass storage device (MSD) such as a USB Flash Drive or SD memory card.



These instructions are for units with a 9-pin communication (RS232) port located at the back of the unit.

Follow the steps below before connecting the Data Logger.

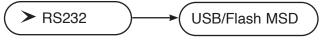


User Setup Menu

To install the STATIM Data logger, access the user setup menu by powering up the unit while pressing the **STOP** button. Follow the instructions below to complete installation steps.

STEP 1

Selecting the USB Flash/MSD Option



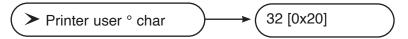
- 1. Power up unit while pressing the **STOP** button to access the User Setup menu.
- 2. Using the UNWRAPPED and WRAPPED buttons, scroll to RS232 and select it by pressing the RUBBER AND PLASTIC button.
- 3. From the RS232 menu, use the UNWRAPPED and WRAPPED buttons to scroll down to the USB/FLASH MSD option and press the RUBBER AND PLASTIC button to select and return to the User Setup menu.

Setting the Serial Port Bitrate to 9600

➤ Serial Port Bitrate → 9600

- 1. From the User Setup menu, use the UNWRAPPED and WRAPPED buttons to scroll to the Serial Port Bitrate menu and select it using the RUBBER AND PLASTIC button.
- 2. From the Serial Port Bitrate menu, use the UNWRAPPED and WRAPPED buttons to scroll down to 9600 and press the RUBBER AND PLASTIC button to select and return to the User Setup menu.

Setting the Printer user Character; (example: 134°C)



- 1. From the User Setup menu, use the UNWRAPPED and WRAPPED buttons to scroll to the Printer user ° char menu and select it using the RUBBER AND PLASTIC button.
- 2. From the Printer user ° char menu, using the UNWRAPPED button to increase the displayed value by one, and the WRAPPED button to increase that value by ten, enter the value 32 [0x20] and press the RUBBER AND PLASTIC button to accept and return to the User Setup menu.

Save and Exit



A Save and Exit must be performed after the above settings are completed. If this is not done, the information will revert to its prior settings.

- 1. From the User Setup menu, use the UNWRAPPED and WRAPPED buttons to scroll to Save and Exit.
- 2. Select it by pressing the RUBBER AND PLASTIC button.

The LCD will display time and date information and a sequence of messages:

HH:MM DD/MM/YYYY

"MSD NOT DETECTED"/"INSERT MSD/ FLASH"/"SELECT A CYCLE"

Step 2

Selecting the Time and Date



Note: If the time and date were set according to section 3.6, this does not have to be performed again.

- 1. Power up unit while pressing the **STOP** button to access the User Setup menu.
- Using UNWRAPPED and WRAPPED buttons, scroll to Time/Date Setup and press the RUBBER AND PLASTIC button to select it.
- 3. From the Time/Date Setup menu, set the time and date using the UNWRAPPED and WRAPPED buttons to change the displayed values and the RUBBER AND PLASTIC button to select. Press the **STOP** button when completed.

Step 3

Setting Unit ID



Note: If the unit ID was set according to section 3.8, this does not have to be performed again.

- 1. Power up unit while pressing the **STOP** button to access the User Setup menu.
- 2. Using the UNWRAPPED and WRAPPED buttons, scroll to the Unit ID Setup and press the RUBBER AND PLASTIC button to select it.
- 3. From the Setup Unit ID menu, use the UNWRAPPED and WRAPPED buttons to change the displayed values and the RUBBER AND PLASTIC button to select and move to the next digit. Press the **STOP** button when completed.

Step 4

Connecting the STATIM Data Logger

- 1. Ensure that both the STATIM unit and Data Logger are off.
- 2. Connect the Data Logger to the STATIM unit by using the serial cable.
- 3. Power up the Data Logger
- 4. Power up the STATIM unit.
- 5. The LCD will display the following sequence of messages:
- 6. Insert USB Flash Drive or SD memory card
- 7. After a few seconds the LCD will display the following sequence of messages:

HH:MM DD/MM/YYYY

"MSD NOT DETECTED"/"INSERT MSD/ FLASH"/"SELECT A CYCLE"

HH:MM DD/MM/YYYY

USB/FLASH DETECTED/SAFELY REMOVE MSD/SELECT A CYCLE

6.3 Installing Paper on the Internal Printer



Use only paper approved for use with the optional internal printer on the STATIM 5000S. The use of any other paper will damage the printer and will void the warranty. Thermal paper is available for purchase using order no. 01-101657S.



Do not operate the printer without paper. If you run out of thermal paper, or if you do not wish to use the printer, turn it **OFF**.



Never pull the paper backwards through the printer.

This will damage the printer mechanism.

To install the paper into the printer, follow these steps:

- 1. Power the STATIM 5000S ON.
- 2. Open the printer door **1** by pushing on the top half of the door.
- 3. Power the printer **ON**.
- 4. Unroll some paper from the thermal paper roll and trim the corners using the paper cutting template included with each box.
- 5. Move the paper roll arm 4 into the loading position. Place the paper roll 3 on the arm so the paper strip feeds from the top of the roll and then carefully insert it into the paper feed slot 5 until it stops.

If the paper does not feed from the top, the heat sensitive side of the paper will not be in contact with the print head and the printer will not print.

6. With one hand, continue to gently feed the paper strip into the paper feed slot. With the other hand, press the paper advance button until the paper feeds by itself.

Keep the paper straight when feeding it into the printer or it may jam. Do not force the paper into the slot! If the paper will not feed into the slot, pre-cut the end of the roll again and reload the paper.

7. Continue to press the paper advance button 6 until the paper feeds through the paper exit slot on the front of the printer. Then, move the paper roll 3 and arm into the operating position and close the printer door 1. The printer is now ready to operate.

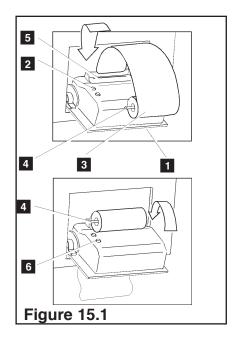
When you see a red line on one side of the paper, it is time to replace the roll.

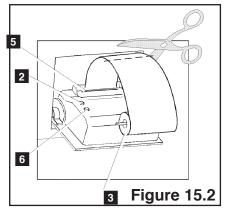
If a paper jam occurs, and the paper cannot be removed by pressing the paper advance button 6, do not pull the paper backwards through the printer.

Never put a utensil or tool into the paper exit slot. For full instructions on how to remove paper jams, see section 6.4 Removing Internal Printer Paper Jams.

To replace the paper roll 3, follow these steps:

- 1. With scissors, cut the paper between the roll and the paper feed slot 5.
- 2. Remove the roll from the arm and discard the unused portion.
- 3. Press the paper advance button 6 to feed the paper that remains in the printer out of the slot at the front of the printer.
- 4. Install the new thermal paper roll by following the instructions described in this section.



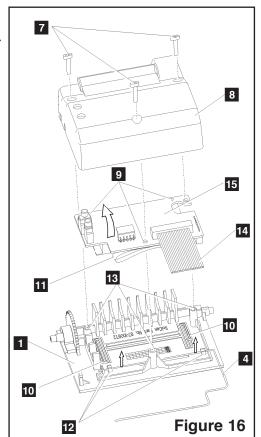


6.4 Removing Internal Printer Paper Jams

If paper jams in the printer and cannot be removed by pressing the paper advance button 6, the printer must be disassembled. Do not pull the paper backwards through the printer and never put utensils or tools into the paper exit slot.

When paper is jammed in the printer, follow these steps to remove the jam:

- Power the STATIM 5000S OFF and unplug the unit.
- 2. Using scissors, cut the paper between the roll and the paper feed slot 5.
- 3. Remove the paper roll from the paper roll arm 4 and leave the arm in the loading position.
- 4. Using a #1 Phillips screwdriver, remove the three screws 7 from the printer cover 8 and remove the cover.
- 5. Note the orientation of the exposed printed wiring board and the paper roll arm 4 assembled on the printer door 1.



- 6. Gently lift the printed wiring board upwards and away from the printer door. Exercise care while handling the board. The printer is integral to the wiring board. Do not place strain on the connections of the ribbon cable soldered to the board. Do not remove the connector of the flexible cable from the connector header on the board. The paper drive mechanism on the underside of the wiring board is now exposed.
- 7. Using a pair of tweezers or fine needle-nosed pliers, carefully remove the paper from the mechanism.

When the paper is removed, reassemble the printer:

1. Carefully snap the paper roll holder, in the loading position, back into the clips on the printer door .

- 2. Place the printed wiring board back into position on the printer door. Note the alignment of the mounting holes in the wiring board and the mounting bosses on the printer door. The black plastic printer body rests between the locating ribs on the inside of the printer door.
- 3. Ensure that the flexible cables 11, 14 are not pinched between the printer door and the wiring board.



- 4. Place the printer cover on the printer door. Ensure that the flexible cables are not pinched between the cover and the door. The power button and the paper advance button must protrude through the openings in the cover and operate freely.
- 5. Using a #1 Phillips screwdriver, secure the printer cover to the printer door with the three screws retained during the disassembly procedure. Do not over-tighten these screws.
- 6. Plug your STATIM 2000S / 5000S into the wall receptacle. Reconnect the printer if it was previously disconnected. Turn the power switch to the **ON** position.
- 7. Press the printer power button to the **ON** position. Load paper into the printer following the procedures in section 7.3 Installing Paper on the Internal Printer.

6.5 Cycle Printout Overview

- 1. Model: STATIM 2000 software: S2S2R410
- 2. Unit Identifier: autoclave has been set up as number 323
- Cycle counter: the number of cycles having been run on the unit = 9
- 4. Time / Date: 1:38 pm 14th April, 2003
- 5. Cycle Name: SOLID UNWRAPPED (N)
- 6. Cycle Name cont'd parameters: 134°C / 3.5 min 1P
- 7. Cycle clock: starting at 0:00
- Warm up complete: start of the conditioning phase is 2:07 (see cycle graph – 'A' phase complete, start of 'B' phase)
- Peek Temp. / Press. & Time of conditioning purge: for each purge (number of lines based on cycle selection – this is a one purge cycle – activity within 'B' phase)
- Lowest Temp. / Press. & Time of conditioning purge: for each purge (number of lines based on cycle selection this is a one purge cycle activity within 'B' phase)

1.	STATIM 2000 S2S2R410
2.	Unit # : 323
3.	CYCLE NUMBER 000009
4.	13:38 14/04/2003
5.	SØLID UNWRAPPED (N)
6.	134°C / 3.5 min - 1P
7.	CYCLE START 0:00
8.	CONDITIONING 2:07
9.	132.9°C 294KPa 3:06
10.	115.0°C 150KPa 3:06
11.	PRESSURIZING 3:21
12.	STERILIZING 4:12
13.	135.6°C 313KPa 4:12
14.	Min. steri. Values:
15.	135.1°C 308KPa
16.	Max. steri. Values:
17.	136.7°C 323KPa
18.	135.9°C 316KPa 7:43
19.	UENTING 7:43
20.	STERILIZING COMPLETE
21.	AIR DRYING 8:07
22.	STOP BUTTON PRESSED
23.	CHECK FOR DRYNESS

Acceptable Tolerances

Sterilization time: "Sterilization time" (e.g. 3.5 mins) -0/+1% Saturated Steam Pressure: 304kPa - 341kPa for Unwrapped/ Wrapped cycle (205kPa - 232kPa for Rubber and Plastics cycle) Sterilization Temperature: "Specified temp" -0/+4 (134°C-138°C) (121°C -125°C for Rubber and Plastics cycle) *data on Cycle Printout should fall within these ranges

- 11. Start Time of Pressurization: 3:21(start of 'C' phase)
- 12. Start Time of Sterilization: 4:12 (start of 'D' phase)
- 13. Temp. / Press. & Time at start of sterilization ('D' phase)
- 14. Min. Temp. / Press during the sterilization phase (lower limits of 'D' phase)
- 15. 135.1°C 308 kPa
- 16. Max. Temp. / Press during the sterilization phase (upper limits of 'D' phase)
- 17. 136.7°C 323 kPa
- 18. Temp. / Press. & Time of end of sterilization phase (end of 'D' phase)
- 19. Time Venting started: 7:43 (start of 'E' phase)
- 20. Sterilization was successfully completed
- 21. Time Air Drying started: 8:07 (start of 'F' phase)
- 22. Cycle was stopped by user
- 23. Drying cycle aborted prior to completion, load may not be dry

7. 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 was 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.
Instruments do not dry.	Best drying occurs when the cycle continues to completion. Allow the cycle to finish. Make sure the instruments are loaded correctly in the cassette. Refer to section 4.4 Preparing and Loading Instruments.
	Check the unit leveling.
	Clean the inside of the cassette and treat with Stat-Dri drying agent. Refer to section 5.1 Cleaning the Cassette. Examine the exhaust tube (tube to the waste bottle) for kinks.

7. Troubleshooting con't.

If kinked, straighten the tube. If the tube cannot be straightened, remove it from the push-in fitting attached to the STATIM. 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 dealer for a replacement.

Make sure the compressor is working. To check, remove the exhaust tube from the waste bottle. Start the Air Drying Only Cycle, and place the free end into a glass of water. If there is not a strong, steady flow of bubbles, the compressor is not functioning properly. Contact your dealer.

Cycle interrupted — NOT STERILE, Cycle aborted — NOT STERILE and CYCLE FAULT messages.



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 cannot be straightened, remove it from the push-in fitting attached to the STATIM. 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 dealer for a replacement.

Check that the STATIM 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.

7. Troubleshooting con't.

Excessive steam issuing from the front	Remove and reinsert the cassette. Attempt another
of the machine.	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 dealer.
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 μ S / cm). If you have the water conductivity meter, check the quality of the water before refilling the reservoir. Refer to the steps described in section 3.9 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 section 3.4 Filling the Reservoir.
Message PRINTER FAULT displayed on LCD Printer is not printing.	Check for a paper jam. If the paper is jammed, follow the paper removal procedures outlined in section 6.4. Power unit OFF for 10 seconds and then power ON again. If the paper is still jammed, follow the disassembly procedures outlined in section 6.4 Removing Paper Jams.
The printer does not work.	Make sure that the printer cable is connected securely with the connector on the back of the STATIM and the Statprinter. Make sure that the printer is powered ON . Power unit OFF for 10 seconds and then power ON again.
The printer appears to work, but nothing is printed on the paper.	Ensure that the paper is loaded properly (refer to section 6.3 Installing Paper on the Internal Printer). Check to see that the paper leaves the paper roll from the top of the roll. This means that the treated surface of the coated thermal paper will be in contact with the thermal print head.
Time and date are incorrect.	The time and date have not been set. See section 3.6 Setting the Time and Date.

7. Troubleshooting con't.

Message MSD NOT CONNECTED INSERT MSD/FLASH	Check the serial cable connection. Check the power connection. Ensure the lower red LED is lit. Check that the Mass Storage Device is properly inserted. Repeat the instructions for Installing the STATIM Data Logger on your unit.
Message MSD/FLASH FULL ↔ REPLACE MSD	The MSD is full. Export the data.
Message Missing lines of Data on MSD/FLASH	Refer to the STATIM screen to confirm successful sterilization. Reset the Data Logger by unplugging its power, disconnecting the MSD and waiting 10 seconds. Then re-connect the power adapter and insert the MSD into the Data Logger. If the problem persists, contact our Service Center.
Message: The file or directory in the MSD is corrupted or unreadable.	Refer to the STATIM screen to confirm successful sterilization. The MSD may have been unplugged while data was being written to it. The MSD should not be unplugged until after "SAFELY REMOVE MSD MSD/FLASH DETECTED" is displayed. The corrupted files or directories may be lost. Reformat the MSD on your computer.

8. Spare Parts List

01-100204S	Exhaust Tube
01-100724S	Condenser Bottle w / o Condenser
01-100735S	Waste Water Bottle Fitting
01-100780S	Bumper
01-100812S	Condenser Bottle
01-100834S	Cassette Lid (2000S)
01-101649S	Cassette Seal (5000S)
01-101657S	Thermal Paper (Box of 10 rolls)
01-101658S	Cassette Handles
01-101709S	Mesh Rack (5000S)
01-101757S	Cassette Lid w / Box (5000S)
01-101766S	Power Cord UK
01-101768S	Power Cord Switzerland
01-101769S	Power Cord Italy
01-101779S	Power Cord Europe
01-106030S	Cassette Lid Handle (2000S)
01-106071S	Extended Cassette Lid Handle (5000S)
01-104093S	Exhaust Tube 3 m long
01-101783S	Reservoir Cap and Filter
01-101970S	Data Cable (5000S)
01-102119S	Filter Biological
01-103139S	Conductivity Meter
01-103475S	Tray (2000S)
01-103557S	Power Cord Repl. Denmark (det.)
01-103865S	Seal Lubricant
01-103945S	Rack-Tray Unwrapped Instr. Kit (2000S)
01-104343S	Plug - Drain Tubing (5000S)
01-104472S	Extended Cassette Handles (5000S)
01-104696S	Handpiece Adapter
01-104697S	Adapter Cassette Seal (2000S)
01-104698S	Adapter Cassette Seal (5000S)
01-104699S	Seal Insert

01-100207S	Compressor Filter (2000S)
01-104786S	Instrument Holder - 4 mm (5000S)
01-100028S	Cassette Seal (2000S)
01-106438S	Cassette Lid, Extended (2000S)
01-108340S	STATIM PCD – spare parts
01-109300S	Water Reservoir Filter Kit
01-100008A	Kit Cassette Final (2000S)
01-100271A	Kit Tray Cassette w / Mesh (2000S)
01-101613S	Cassette Complete (5000S)
01-101614S	Tray Complete (5000S) with Box
01-103923	Condenser Additional Bottle
01-103935	STATIM Drying Plates (5000S)
01-104104	Extended Length Cassette (5000S)
01-104499	Extended Cassette Instrument Rack (5000S)
01-106653	Mesh Tray (2000S)
01-210000	Kit Printer (5000S)
01-106325	Container Endoscope Complete (5000S)
20ZPLUS	STAT-dri 2 oz.
8OZPLUST	STAT-dri 8 oz.
32OZPLUS	STAT-dri 32 oz.
99-108332	Chemical Emulator 134°C/3.5 min
01-108341	STATIM PCD Final Assembly Kit

9. Warranty

Limited Warranty

For a period of one year, the legal manufacturer guarantees that the **STATIM 2000S** / **5000S**, when manufactured 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.

A two-year warranty will be applied specifically to the water pump, steam generator, and printed circuit board (PCB) 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 the legal manufacturer's option and without charge, of any defected part(s) (except gasket), provided the legal manufacturer 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 the legal manufacturer prepaid.

This warranty shall be considered to be validated, if the product is accompanied by the original purchase invoice from the authorized 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 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 the legal manufacturer.

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 manufactured products is excluded and disclaimed by the legal manufacturer. If you would like to learn more about **our** products and features, visit our website at **www.scican.com**.

10. Test Protocol

10.1 Type test

STATIM 2000S/5000S			CYCLES	S			
Type Test	SOLID UNWRAPPED (N) 134°C / 3.5 min	HOLLOW UNWRAPPED (S) HOLLOW UNWRAPPED (S) 134°C/13.5 min 134°C/18 min	HOLLOW UNWRAPPED (S) 134°C / 18 min	HOLLOW WRAPPED (S) 134°C/3.5 min	HOLLOW WRAPPED (S) 134°C / 18 min	RUBBER/PLASTIC (S) 121°C / 15 min	RUBBER/PLASTIC (S) 121°C / 30 min
Dynamic chamber		×	×	×	×	×	×
Empty chamber	×	×	×	×	×	×	×
Solid load – unwrapped	×	×	×	×	×	×	×
Solid load - single wrapped		×	×	×	×	X	×
Simple hollow item		×	×	×	×	×	×
Dryness, solid load – unwrapped	×	×	×	×	×	×	×
Dryness, solid load - single wrapped		×	×	×	×		
Residual air	Х	×	×	×	×	X	×
Additional Tests							
STATIM 2000S/5000S PCD * (01-108341)				×			
Microbiological Tests							
For Specific Medical Devices - SEE LIST BELOW							

	1.5 Kg.	1.5 Kg.	1.5 Kg.	1.5 Kg.	1.5 Kg.	0.4 Kg.	0.4 Kg
	Cycle	۵					
5 LPA	ПОН	HOLLOW / UNWRAPPED (S) 134°C / 3.5 min HOLLOW / UNWRAPPED (S) 134°C / 3.5 min HOLLOW / UNWRAPPED (S) 134°C / 3.5 min HOLLOW / UNWRAPPED (S) 134°C / 3.5 min	°C /3.5 min °C /3.5 min °C /3.5 min °C /3.5 min	* 1.The PCD (F	Process Challe	1. The PCD (Process Challenge Device) was designed	as designed

- 2. The PCD is not for use with the STATIM 2000,STATIM 5000 or STATIM 5000S Extended Cassette.3. PCD specification available upon request.4. Narrow Lumen test not applicable rationale exclusively for use in the STATIM 2000S and STATIM 5000S autoclaves.
- available upon request.

Dental instruments	
KaVo GENTLEforce 7000C	HOLLOW / UNWBAPPED (S) 134°C / 3.5 min
Kavo – Gentle Power Lux 25 LPA	(2)
W&H-Trend LS, WD-56	(8)
W&H-Trend HS, TC-95RM	(S) 134°C / 3.5
KaVo Super-Torque LUX/640 B	HOLLOW / UNWRAPPED (S) 134°C / 3.5 min
KaVo-INTRAmatic LUX3, 20 LH	· (S)
NSK-PANA Air	(S)
NSK-ATL118040	(S)
NSK – Ti-Max	(S)
STAR-430 SWL	<u>(S</u>
Sirona-T1 Classic, S 40 L	
Sirona-T1 Control, TC3	
Midwest-Tradition	HOLLOW / UNWRAPPED (S) 134°C / 3.5 min
Bein – Air - Bora L	HOLLOW / UNWRAPPED (S) 134°C / 3.5 min
W&H - WS-75	HOLLOW / WRAPPED (S) 134°C / 3.5 min
W&H – WA-99 LT	HOLLOW / WRAPPED (S) 134°C / 3.5 min
W&H - TA-98 LC	HOLLOW / WRAPPED (S) 134°C / 3.5 min
B & L Ophthalmology instruments	
Gimble irrigating cannula 30g E4894	HOLLOW / UNWRAPPED (S) 134°C / 3.5 min
Lasik cannula E4989	HOLLOW / UNWRAPPED (S) 134°C / 3.5 min
Gillis irrigating-aspirating cannula E4932	HOLLOW / UNWRAPPED (S) 134°C / 3.5 min
Nichamin hydrossection cannula 26g E4421 H	HOLLOW / UNWRAPPED (S) 134°C / 3.5 min
Irrigating-aspirating handpiece MVS 1063C	HOLLOW / UNWRAPPED (S) 134°C / 3.5 min
Rudolf Medizintechnik GmbH Endoscope accessories	
Trocar sleeve, arthroscopy, 2 rotating stop cocks,	HOLLOW / UNWRAPPED (S) 134°C / 3.5 min
1.7 mm dia x 104 mm length #10-0008-00	HOLLOW / UNWRAPPED (S) 134°C / 3.5 min
Trocar sleeve, hysteroscopy diagnostic sheath, 1 fixed	
stop cock, 2.7 mm dia x 302 mm length #10-0049-00	HOLLOW / UNWRAPPED (S) 134 C / 3.5 min
Alcon opninalmic nandpiece	HOLLOW / LINIWBAPPED (S) 134°C / 3 5 min
Miltex medical instruments	
Frazier needle 26-778	HOLLOW / UNWRAPPED (S) 134°C / 3.5 min
Yeoman biopsy forceps with rotating shaft 28-304	
÷	
Frazier-Ferguson tube 19-570	HOLLOW / UNWRAPPED (S) 134°C / 3.5 min
Yankauer suction tube 2-104SS	HOLLOW / UNWRAPPED (S) 134°C / 3.5 min
Menghini biopsy needle 13-150	HOLLOW / UNWRAPPED (S) 134°C / 3.5 min
Becton Dickinson	
Needle, 30G1	HOLLOW / UNWRAPPED (S) 134°C /3.5 min
Medical Workshop	
Hockeystick Forceps, membrane peeling mw-1925	HOLLOW / UNWRAPPED (S) 134 C / 3.5 min

10. Test Protocol con't.

	STATIM 2000S	STATIM 5000S
Cycle	Cold Unit With Max. Load + Drying Phase	Cold Unit With Max. Load + Drying Phase
	Warm Unit Without Load + Drying Phase	Warm Unit Without Load + Drying Phase
SOLID UNWRAPPED (N)	9:15 + 60:00	13:15 + 60:00
134°C / 3.5 min	6:45 + 60:00	8:45 + 60:00
HOLLOW UNWRAPPED	11:45 + 60:00	17:30 + 60:00
(S) 134°C / 3.5 min	8:05 + 60:00	10:50 + 60:00
HOLLOW UNWRAPPED (S)	26:15 + 60:00	32:00 + 60:00
134°C / 18 min	22:35 + 60:00	25:20 + 60:00
HOLLOW WRAPPED (S)	15:35 + 60:00	24:00 + 60:00
134°C / 3.5 min	10:40 + 60:00	15:30 + 60:00
HOLLOW WRAPPED (S)	30:05 + 60:00	38:30 + 60:00
134°C / 18 min	25:10 + 60:00	30:00 + 60:00
RUBBER / PLASTIC (S)	20:15 + 60:00	22:50 + 60:00
121°C / 15 min	18:40 + 60:00	20:20 + 60:00
RUBBER / PLASTIC (S)	35:15 + 60:00	37:50 + 60:00
121°C / 30 min	33:40 + 60:00	35:20 + 60:00

11. Specifications

11.1 STATIM 2000S — Specifications

	opoomoanomo	
Machine Dimensions:	Length:	48.5 cm
	Width:	41.5 cm
	Height:	15 cm
Cassette Size (External):	Length:	41 cm (includes handles)
	Width:	19.5 cm
	Height:	4 cm
Cassette Size (Internal):	Length:	28 cm
	Width:	18 cm
	Height:	4 cm
Sterilization Chamber Volum	ne:	1.8 L
Reservoir Volume:		4.0 L
Weight (Without water):		21 kg
Clearance required:		
	Top:	5 cm
	Sides:	5 cm
	Back:	5 cm
	Front:	48 cm
Clearance required for move	ement of the door(s):	48 cm
Minimum charge in the water	er reservoir:	550 mL
PRV value (pressure relief v	alve):	Set at 43.5 PSI to release pressure in overpressure situations
Thermal Fuse:		Cuts power to boiler in event of overheat
Electrical Rating:		220 - 240 V, +/-10%, 50/60 Hz, 6 A
Current:		AC
Protection Class:		I
Protection:		covered
Ambient Operating Tempera	ature:	5°C - 40°C
Sound levels:		Mean - 56 dB, Peak - 65 dB
Humidity:		80% Max.
Max. Altitude:		2000 m
Max. Water Consumption:		268mL
Ambient Operating Pressure	e:	70kPa - 106kPa
Indoor or Outdoor Use:		Indoor Use
Pollution Degree of the Inte	nded Environment:	2

11. Specifications con't.

11.2 STATIM 5000S — Specifications

11.2 31A11W 30003 —	Specifications	
Machine Dimensions:	Length:	55 cm
	Width:	41 cm
	Height:	19 cm
Cassette Size (External):	Length:	49.5 cm (includes handles)
	Width:	19.5 cm
	Height:	8 cm
Cassette Size (Internal):	Length:	38 cm
	Width: Height:	18 cm 8 cm
Sterilization Chamber Volun		5.1 L
Reservoir Volume:		4.0 L
Weight (Without water):		33 kg
Clearance required:		
	Top:	5 cm
	Sides:	5 cm
	Back:	5 cm
	Front:	57 cm
Clearance required for move		57 cm
Minimum charge in the water		550 mL
PRV value (pressure relief v	alve):	Set at 43.5 PSI to release pressure in overpressure situations
Thermal Fuse:		Cuts power to boiler in event of overheat
Electrical Rating:		220 - 240 V, +/-10%, 50/60 Hz, 6 A
Current:		AC
Protection Class:		I
Protection:		covered
Ambient Operating Tempera	ature:	5°C - 40°C
Sound levels:		Mean - 57 dB, Peak - 65 dB
Humidity:		80 % Max.
Max. Altitude:		2000 m
Optional Internal Printer Spec	ifications:	
Type:		Thermal Printer
Print:		20 characters per line
Print Speed:		1 line per second
Paper Roll Capacity: approx	.	80 sterilization cycles per roll
Max. Water Consumption:		564mL
Ambient Operating Pressure	e:	70kPa - 106kPa
Indoor or Outdoor Use:		Indoor Use
Pollution Degree of the Inter	nded Environment:	2

12. DECLARATION OF CONFORMITY

Basic UDI-DI: 764018507STATIM2000S2R (STATIM 2000S),

764018507STATIM5000S3S (STATIM 5000S)

Classification: Class IIa [(EU) 2017/745 Annex VIII, Rule 16)]

Legal Manufacturer: Dent4You AG

Legal Manufacturer Address: Bahnhofstrasse 2

CH-9435 Heerbrugg

European Representative: Coltène/Whaledent GmbH+Co. KG

Raiffeisenstraße 30 DE-89129 Langenau

We herewith declare that the above mentioned products meet the provisions of the following EC legislation(s) and that the legal manufacturer has exclusive responsibility for the content of this Declaration of Conformity. All supporting documentation is retained at the manufacturer's premises.

General Applicable Legislation:

Medical Device Regulations: Regulation (EU) 2017/745 of 5 April 2017 on medical devices (MDR 2017/745, Annex IX, Chapters I, III including Section 4).

Standards and Common Specifications:

EN ISO 13485, EN 61010-1, EN 61010-2-040, EN ISO 14971, EN 62304, EN 13060, EN 61326-1, EN 62366-1.

Notified Body: TÜV SÜD Product Service GmbH

Ridlerstraß 65,

D-80339 München, Deutschland

Identification No. 0123

Date CE Mark was affixed: March 24, 1998