

## OPERATOR'S MANUAL

A product of

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# READ THIS FIRST

This section contains information you must know for trouble-free and effective sterilization with the **STAT/M** cassette autoclave.

## 1. Use only distilled water in the water reservoir.

Only steam process distilled water containing less than 3 ppm total dissolved solids can be used in the **STAT/M**. Good distilled water is commonly available at pharmacies and grocery stores.

### **Warning:**

Deionized, demineralized, or specially filtered water should not be used.

## 2. Empty the condenser bottle every time you refill the unit.

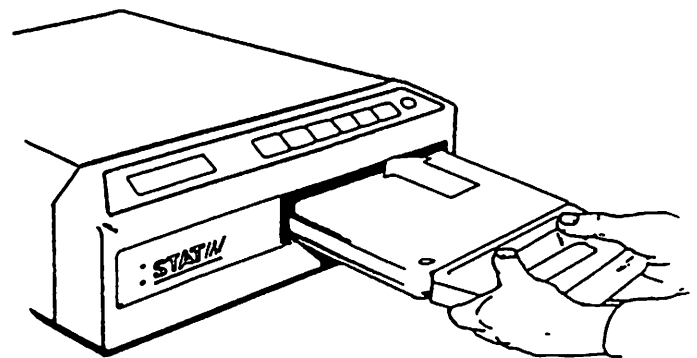
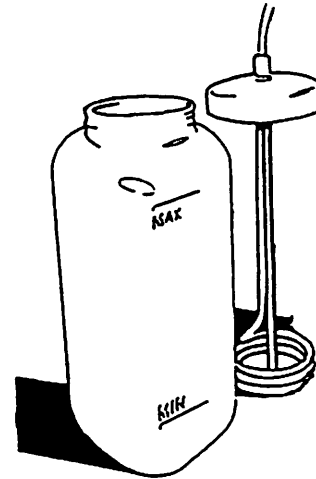
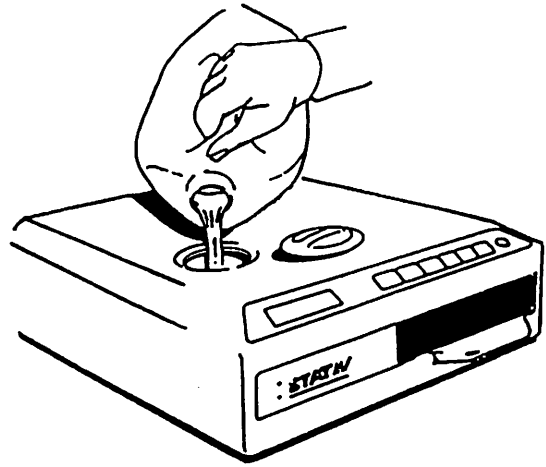
Always have enough liquid in the bottle to reach the MIN line.

## 3. Protect the **STAT/M** from freezing.

If the unit must be reshipped, empty the water from the reservoir and specify heated shipping.

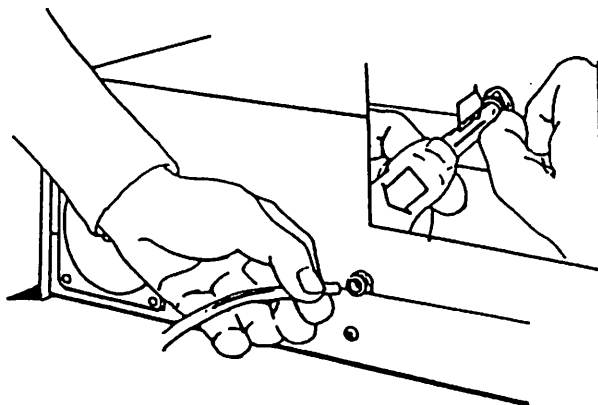
## 4. Always insert the cassette into the unit with the lid facing upwards.

Inserting a cassette upside down will cause damage.

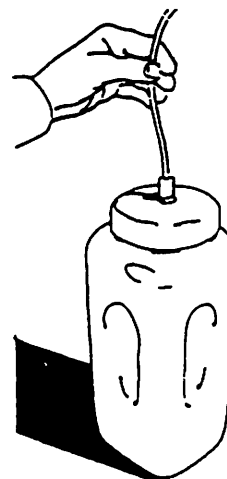


# INSTALLATION

1. Place the **STAT/M** on a flat, water resistant surface.
2. Connect the condenser bottle.
  - Push one end of the teflon drain tube into the fitting on the back of the unit. Push hard past the first resistance: a tug should not be able to remove the tube. (For removal, pull on the tube while pushing in the brass ring of the fitting.)
  - The tube may be trimmed to length with a sharp knife.



- Place the other end of the tube into the fitting in the lid of the condenser bottle and hand tighten.

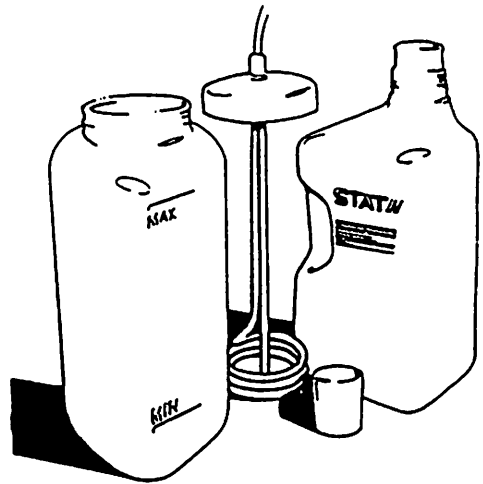


- We recommend that the bottle be kept in a cabinet below the unit. For convenience, the tube can be routed through a hole, 7 mm (5/16") in diameter, drilled through the counter-top and affixed with the nylon clamps provided. Leave room for easy access to the bottle because it must be emptied every time the reservoir is filled.



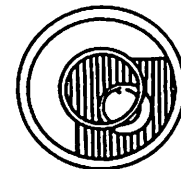
- Carefully unscrew the bottle from the lid and copper condenser coil and add 500 ml of tap water and 80 ml of disinfectant. (STATIM Part No. 100208 is recommended.)

**Note:** There must always be enough liquid in the bottle to cover the coil; keep it filled at least to the MIN line indicated on the label.

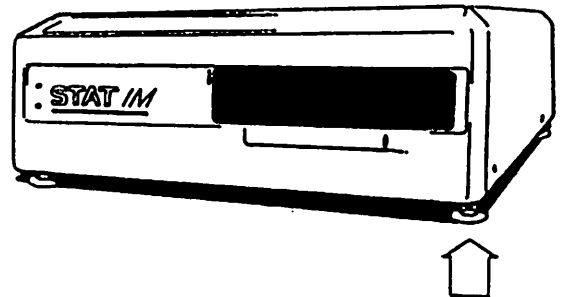


3. Align the bubble level to the centre or right front quadrant of the target by adjusting the three leveller feet.

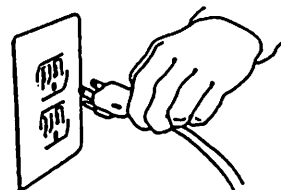
- This angle will ensure proper drainage of steam condensate to the left rear corner of the cassette. If in doubt, the left rear corner of the STATIM should be the lowest point.
- Be sure that all four feet are in contact with the surface and that the unit does not rock.



LEVEL



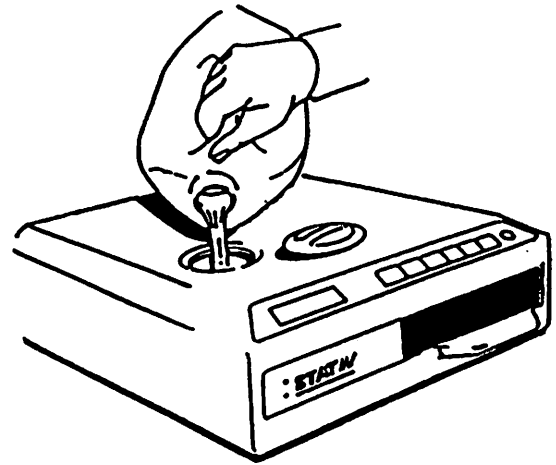
4. Plug the unit into a standard, grounded wall outlet.



5. Remove the cap on top of the unit and pour in distilled water until nearly full (a maximum of 4 litres).

- Replace cap and be sure nothing other than distilled water enters the reservoir.
- You will get between thirty and fifty cycles on one filling of the reservoir.

The unit is now ready for operation.



# PREPARING INSTRUMENTS FOR STERILIZATION

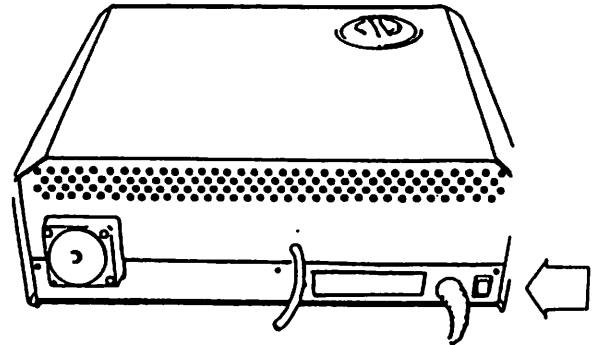
1. Clean and rinse instruments before autoclaving.
  - Debris can damage the instruments or the autoclave. Residues from disinfecting solutions may have the same effect.
  - When lubricating instruments prior to autoclaving, wipe off the excess lubricant. Too much oil will shorten the life of the cassette seal.
  - Check the manufacturer's recommendations for instruments before autoclaving.
2. When using the wrapped cycle, carefully seal clean instruments into autoclave bags (Part No's.: 100113, 100119 or equivalent).
3. Before using the rubber and plastics cycle, ensure that all items are autoclavable.
  - Examples of autoclavable organic materials are: nylon, polycarbonate (Lexan\*), polypropylene, PTFE (Teflon\*), acetal (Delrin\*), polysulfone (Udel\*), polyetherimide (Ultem\*), silicone rubber, polyester.
  - Examples of materials that cannot be autoclaved include: polyethylene, ABS, styrene, cellulose, PVC, acrylic (Plexiglas\*), PPO (Noryl\*), latex, neoprene.

\*Trademark

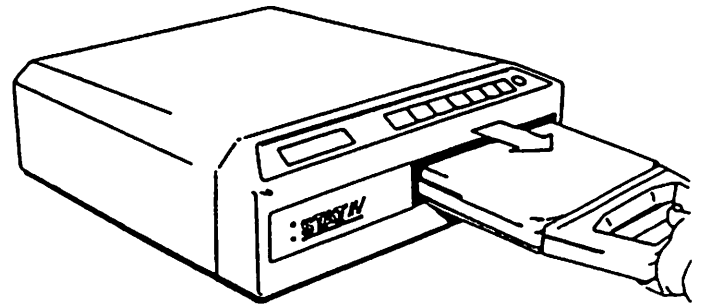
# OPERATION

## 1. Turn the power switch on.

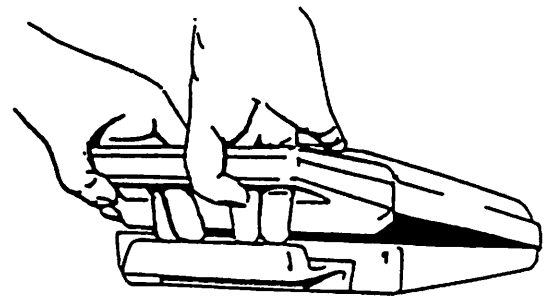
- The power may be left on all day. Switch off at night.



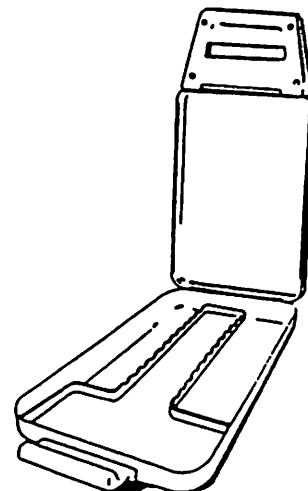
- Remove the cassette.
- Grasp the cassette handle, pull the cassette out and place it on a flat surface.



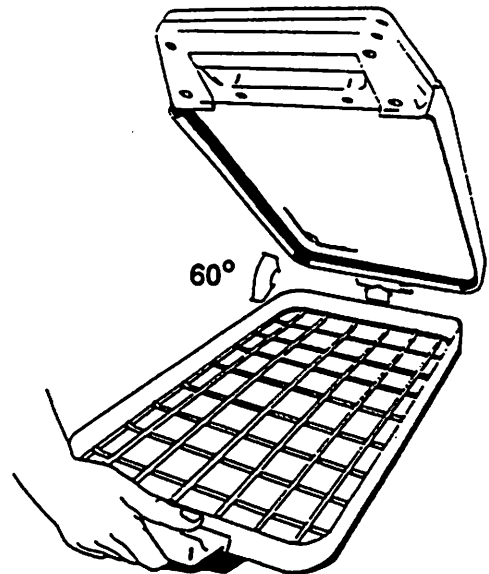
- Open the cassette.
- Using both hands, place your thumbs underneath the handle and press down on the centre bar with your fingers to release the lid.



- Raise the lid past vertical to its open position.



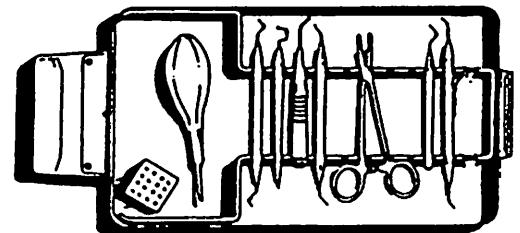
**Note:** To disconnect the lid from the tray, tilt it towards you and lift the lid up to disengage the hinges.



2. Load instruments into the tray by following these **IMPORTANT** guidelines:

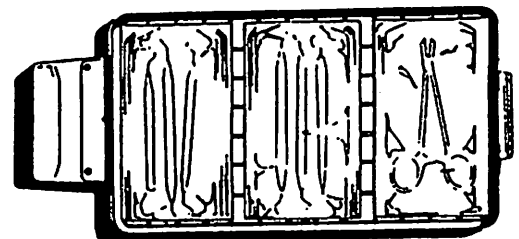
#### **UNWRAPPED INSTRUMENTS**

- Various types of instrument racks can be used to organize instruments. Elevating the instruments will aid in drying.



#### **WRAPPED INSTRUMENTS**

- When using paper/plastic type wraps, the paper side should be down.
- Place wrapped instruments on the wire mesh rack. Invert the mesh rack to raise the wraps about 1/4 inch from the bottom. This will allow the steam to circulate underneath the wraps.
- Avoid overlapping wraps. Although it will not affect sterilization, drying will be difficult if the wraps are on top of each other.



#### **RUBBER & PLASTICS**

- Provide a small space between all rubber and plastic items and the cassette walls to allow steam penetration.

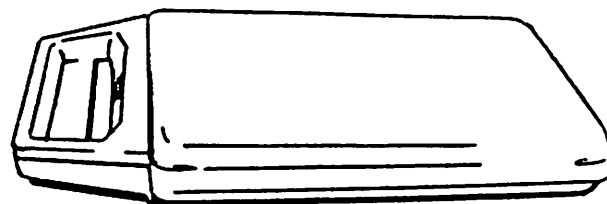
**Note:** Do not obstruct the small holes at the back of the cassette! The steam and condensate pass through these openings.

## **ALL CYCLES**

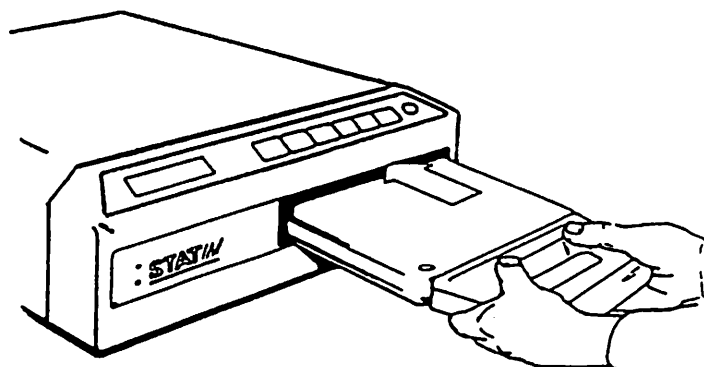
**It is good practice to include a chemical indicator each cycle and a biological indicator once a week.**

### **3. Close the lid.**

- The handle will engage, pushing out some air from the cassette.



### **4. Insert the cassette into the unit until you hear the click.**



### **5. Press the button on the control panel for the desired cycle.**

- The display screen will confirm the selection and prompt "Press START".

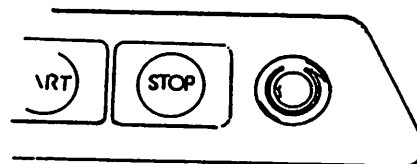
### **6. Press the START button.**

- The amber light will come on.

**Note:** *The cassette cannot be removed once the STATIM is pressurizing unless the STOP button is pressed.*

7. When the cycle is complete, the amber light will flash and the unit will make a chirping sound, indicating the contents are sterilized and the cassette can be removed

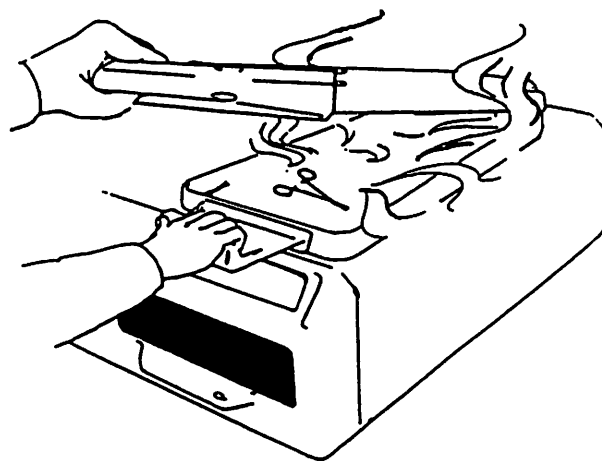
- After sterilization the air dryer will start automatically. This is not part of the sterilization process and may therefore be interrupted by pressing the STOP button at any time.



**Note:** The STATIM's program is designed to always tell you whether the cycle was successful or not. If there was a malfunction during the cycle, the message "NOT STERILIZED" is displayed. You should always confirm that the "CONTENTS STERILIZED" message appears before the instruments are used. If in doubt, it is better to run the cycle again.

**WARNING:**

If you remove the cassette shortly after venting, it and its contents will be hot! Place it on a heat resistant surface and do not touch metal parts with bare hands until cool. As the cassette is opened, beware of hot steam.



# MAINTENANCE

## 1. Cleaning the interior of the cassette

A layer of oil on the inside surface of the cassette can slow down the drying stage by allowing drops of water to hang on the walls. Wiping the lid and tray occasionally with automatic dishwashing detergent or, better still, a small amount of dishwasher drying agent will maintain a clean, hydrophilic surface.

## 2. Cleaning the outside surfaces of the STAT/M

Use a soft cloth moistened with cleaning solution/disinfectant to clean all outside areas. Do not use solvents.

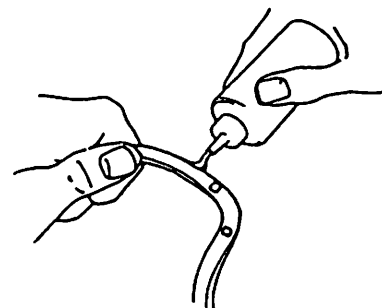
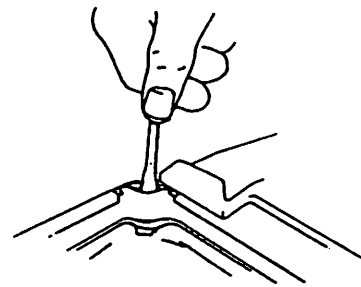
## 3. Changing the Cassette seal

The seal must be changed if it starts to leak - indicated by a hissing sound. If the leak is large, the cycle may abort, showing "check cassette" on the display panel. This will usually happen after 500 to 800 cycles.

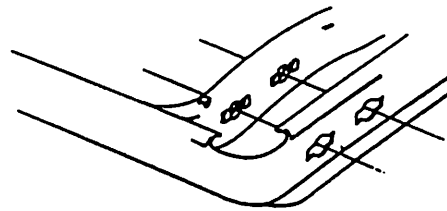
A large puddle of water under the machine may also indicate damage to the seal.

### Steps:

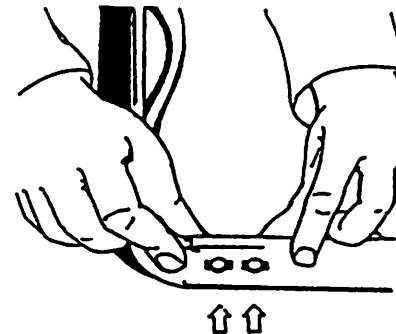
- a) Starting at any corner of the lid, pry the old seal away from the lid's seal channel with a small screwdriver.
- b) Remove the old seal and discard. Clean any residue out of the channel.
- c) Generously lubricate the new seal with the liquid soap provided.



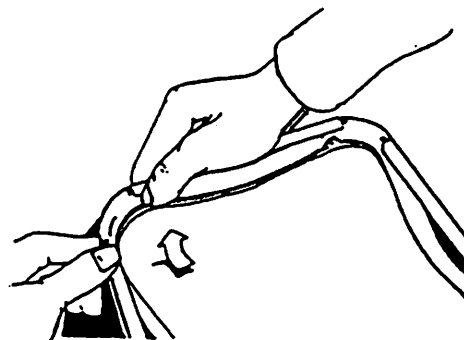
- d) Locate the two holes in the seal and the corresponding holes in the lid.



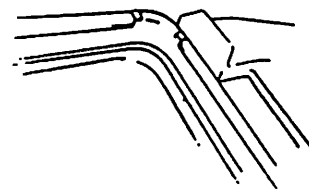
- e) Align the two sets of holes and place the new seal, rounded edge up, into the lid's channel. Note that the molded squares on either side of the holes in the seal must COMPLETELY engage with the holes in the lid.



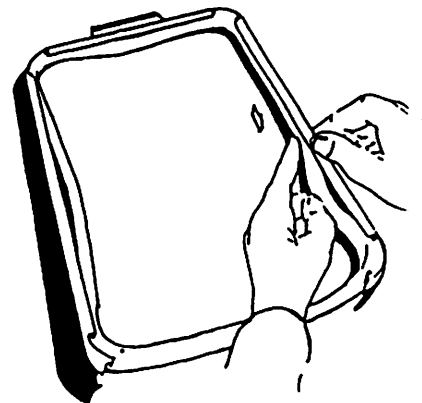
- f) Align the four corners of the seal and carefully press them into each corner of the lid.



- Both of the small square bumps should be visible at each corner.



- g) Insert the rounded edge of the seal under the round lip of the lid and gently push the seal into the channel on all four sides.



- h) Press the other three sides of the seal into the channel using your thumbs. When the seal is completely inserted, run your thumbs around it to make sure the flexible lip of the seal is free around the entire periphery of the lid.

**Note:** Check again that the holes in the seal and the lid are in perfect alignment. The small square projections at each side of the holes in the seal should be located in the square notches on either side of the holes in the lid. If they are not, use your thumbs to ease the seal sideways to align the squares.

The lid is now ready for use. During the first sterilization cycle with the new seal, watch for excessive steam leakage, indicating that the seal is improperly installed and should be checked.

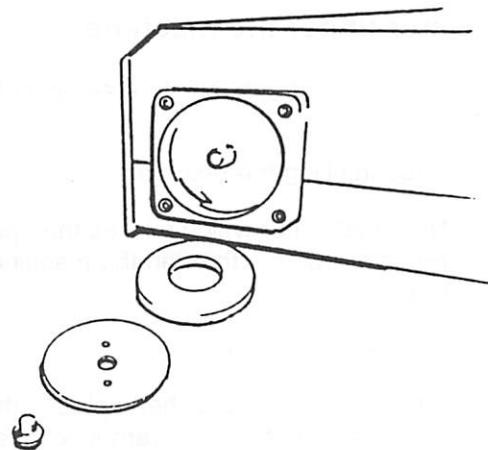


#### 4. Changing the air filter

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

- With the power off, remove the screw and circular plate on the back of the compressor.
- Remove and discard the foam filter.
- Fit in the new filter (Part No. 100207).
- Reinstall the circular plate.

**Note:** If the compressor is too hot to touch or if the filter is wet, see a service agent before using the machine again.



#### 5. Regular service check-ups

Every two years, a service agent should inspect your STATIM and replace the check valve o-ring, the pressure relief valve and the outlet o-ring.

# TROUBLESHOOTING

## 1. Contents do not dry

- a) First confirm that the air compressor works.
  - Remove the drain tube from the condenser bottle and put the end in a glass of water. With the cassette fully inserted, start the "AIR DRY ONLY" program. Aggressive bubbling should issue from the tube. If not, or if the air flow is feeble, try a new cassette and/or contact your service agent.
- b) Assuming the compressor is OK, this problem is usually due to an oily build-up on the cassette or incorrect racking. See the OPERATION and MAINTENANCE sections.

## 2. Water under the machine

There are three sources for leakage below the machine:

- a) Spillage in filling the reservoir.
  - Note that water which misses the opening in the reservoir will run through the machine to the countertop.
- b) A leaky reservoir plug.
  - The brass hex socket head plug in the bottom of the reservoir should be removed, coated with a pipe sealant (eg: Loctite PST) and carefully reinserted. (This plug can easily be cross-threaded if not inserted accurately).
- c) Cassette leakage.
  - The black receptacle for the cassette has a plastic drain tube at its left rear corner that allows leakage from the cassette to pass through the bottom of the machine. If a large puddle is below this tube and chronic dripping can be seen from the tube during operation, then there is a fault with the connection between the machine and the cassette. Inspect the seal for misalignment or damage and replace as required. Some liquid soap applied to the cassette holes may stop the leakage on a good seal. If not, the seal should be replaced. If changing the cassette and the seal does not solve the problem, the machine requires an internal adjustment. Refer to a service agent.

### **3. Aborted cycle and the “NOT STERILIZED” message**

#### **a) “SERVICE NEEDED!”**

- Try one more cycle. If this message recurs, switch off the unit and call your service agent.

#### **b) “check cassette (Number from 1 to 8)”**

- Check to see if the holes at the back of the cassette and the holes in the seal are perfectly aligned and that the flexible lip of the seal is completely free.
- Check the drain tube for kinks or obstructions.
- Try another cassette or replace the seal.
- If the problem keeps recurring, record the code number that accompanies the message and contact your service agent.

# SPECIFICATIONS

## **Dimensions:**

Width 37 cm x Length 44.5 cm x Height 14.7 cm

Width 14.8" x Length 17.8" x Height 5.9"

## **Dimensions of Cassette Chamber:**

Width 20 cm x Length 30 cm x Height 3.5 cm

Width 7.7" x Length 11.7" x Height 1.4"

## **Empty Weight:**

20 kg / 44.2 lbs

## **Power Requirements:**

Model 110V 50/60Hz 1300 Watts: 15 Amp protected circuit

Model 220V 50/60Hz 1300 Watts: 10 Amp protected circuit

## **Log Reduction:**

Minimum 12 log reduction of spores of B.

Stearothermophilus having a D 121°C of one minute.