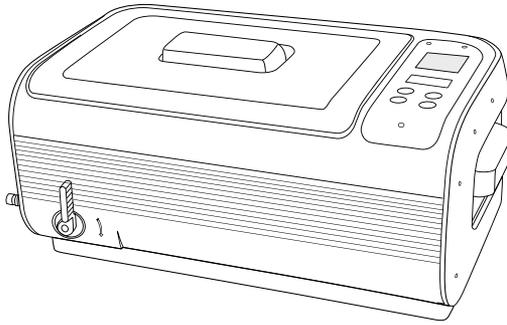


StatClean® - Ultrasonic Cleaner

USER MANUAL



FEATURES:

Large tank capacity	Tank capacity 6.0 L / 1.6 gallon. Tank size: 34.0 x 20.5 x 9.9 cm / 13.4" x 8.1" x 3.9"
Stainless Steel Rack and Basket	Use rack when using cassettes and basket for loose instruments.
Control panel with capacitive sensing technology	Solid panel top. Durable, reliable, resistant to water and harsh chemicals.
Drainage valve	Convenient to use.
Memory feature	Recalls last timer settings.
Two industrial grade ultrasonic transducers	Uniform distribution of ultrasonic waves, strong cleaning, high durability.
3-color LED display	1 to 30-minute full range timer, degas, and thermometer.
Independent control circuit for each ultrasonic transducer	40% higher cleaning efficiency, not susceptible to interference, more durable.
Multiple circuit protectors	When overloaded or improperly used, the protectors shut down the power to certain areas to protect the machine.
Moisture-proofed PCB with industrial IC	Capable for different working environments with better anti-interference performance.
Two cooling fans	One for cooling of PCB boards, one for cooling of ultrasonic transducers. Improve heat dissipation and beneficial for continuous operations.
Solid and advanced structural design	4.5 mm thick wall housing made from engineering grade plastic with tongue-in-groove design for better waterproof and drop-proof performance.

SD-485 NA EN R2. StatClean is a registered trademark and Your Infection Control Specialist is a trademark of SciCan Ltd.

INTRODUCTION

Principles of ultrasonic cleaning

The cleaning effect is achieved through high frequency vibrations that produce air bubbles within the liquid, which when in contact with an object dislodges the debris.



Using tap water is sufficient; however, it is recommended to use filtered water for best results.

Read the Manual First

Before use of device, review the manual. Warnings and operations should be followed carefully.

TABLE OF CONTENTS

Safety Precautions	1
Product Structure & Accessories	3
Control Panel & Operations	4
Operation Guidelines	5
Memory Operations	7
Common Cleaning Methods	8
Product Exploded View	10
Care and Maintenance	12
Specifications	14
Warranty	14

SAFETY PRECAUTIONS



Appliance and cleaner are potential life hazards to children, **PLEASE KEEP THEM AWAY AND OUT OF REACH FROM CHILDREN.**



To prevent life-threatening electrical shock, please observe the following:

Danger of electrical shock! Do not use while bathing. Never immerse the device or the power cord in water or any liquids.

- › Danger of electrical shock! Never touch/insert/remove the power plug with wet hands.
- › Danger of electrical shock! If the unit has fallen into water during operation, do not touch the unit. Remove the power plug from the socket first.
- › Danger of electrical shock! Do not spray any liquids over the device.
- › Follow the manual to operate the device and never leave the device operating unattended.
- › Do not use components unapproved by the manufacturer.
- › Remove power cord by grasping its plug and not its cord.
- › Keep power cord away from obstructions (cupboard doors, chairs etc.) and hot surfaces to prevent cord damage.
- › Do not use device if it has received damage to any part of the unit (plug, cord, housing etc.)
- › Do not disassemble the device, except by professionals.
- › If there is damage to the power plug, cord, housing, or other parts of the device, do not use the device.
- › If the unit is damaged, non-operational or has fallen into water, take it to an authorized dealer for service.
- › Remove the power plug from the socket:
 - if malfunction occurs before cleaning the device
 - if the device is not going to be used for prolonged period after each use (recommended)
- › The installation of an earth leakage circuit breaker with a rated tripping current of no more than 30 mA provides further protection against an electrical shock. The installation should only be carried out by a trained electrician.

SAFETY PRECAUTIONS



To prevent fire hazards, please observe the following:

- › Do not set unit on soft surfaces (bed, couch etc.) or block the vents on unit. Keep vents free from any obstructions.
- › Observe the other warnings in the previous section.
- › If the power cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.



Use filtered water for best results.

Other observations:

- › **Do not operate the unit without filling the tank with water. Running dry will damage the unit.**
- › Do not plug in the power cord before adding water to the tank. Do not fill the tank above the Max line to avoid overspill.
- › Do not use solution containing abrasive substances or strong corrosive chemical solution not recommended by the manufacturer or the supplier.
- › Operate unit on a dry and flat surface for operation.
- › When the unit encounters to severe electromagnetic interference, it may malfunction, stop operating or lose control functions. If this happens, unplug the power cord then reinsert it to restart the device.

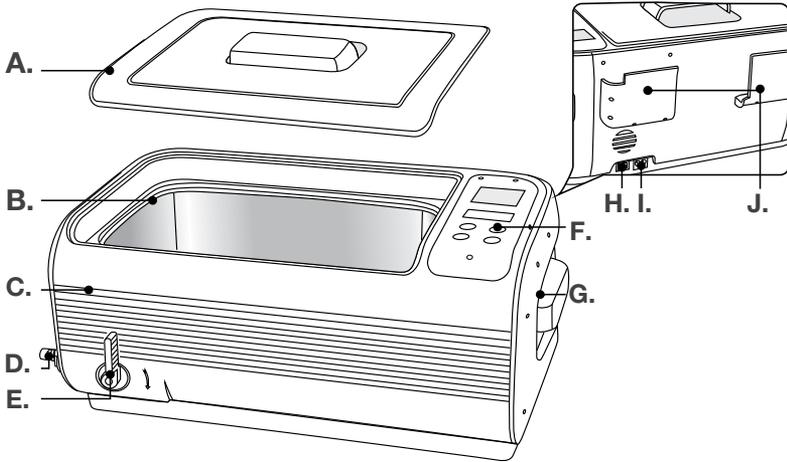


IMPORTANT SAFETY INSTRUCTIONS:

When using electric appliances, basic precautions should always be followed, including the following:

- › Only use attachments recommended or sold by the manufacturer.
- › Do not use outdoors.
- › To disconnect, turn all controls to the off position, then remove plug from outlet. Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord. Unplug from outlet when not in use and before servicing or cleaning.

PRODUCT STRUCTURE & ACCESSORIES



- | | |
|--------------------------|------------------|
| A. Top Cover | F. Control panel |
| B. Stainless steel tank | G. Handles |
| C. Housing | H. Power switch |
| D. Drainage pipe fitting | I. Power socket |
| E. Drainage valve handle | J. Cover holder |

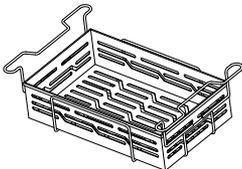
STANDARD ACCESSORIES:



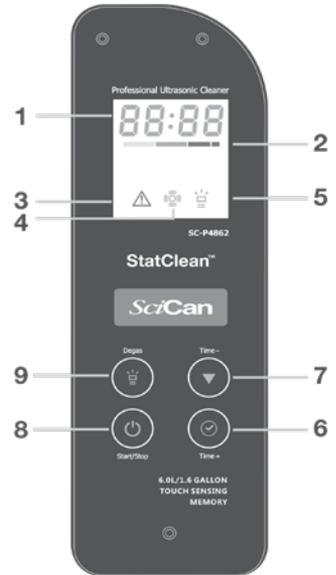
Power cord



Hose



Stainless steel rack and basket



1. Working time display
2. Multistage thermometer
3. Warning light
4. Degas status
5. Timer quick set key
6. Timer decreasing key
7. Normal cleaning status
8. Start/Stop key
9. Degas key

CONTROL PANEL & OPERATIONS

- 1. 10:00 – Working Time Display.** It counts down after work is started.
- 2.  – Multistage Thermometer.** Solid green light indicates: water temperature is 0-30% of 60 °C/140 °F. Solid orange light indicates: water temperature is 30-60% of 60 °C/140 °F. Solid red light indicates: water temperature is 60-90% of 60 °C/140 °F. Flashing red light indicates: water temperature is close to 60 °C/140 °F. All lights indicates: water temperature is at 60 °C/140 °F (90-100%).
- 3. Warning Light.** Normally it could be illuminated in the following two scenarios:
 - a. Overheat protection is triggered for one or two transducers. If it is only one transducer, the other one will continue to work. Once the transducer is cooled down, the warning light will be dimmed.
 - b. If the light is illuminated as soon as the unit is turned on, it indicates malfunctioning at one or two signal cables for transducer PCBs. The unit can be operated normally.
- 4.  – Normal Cleaning Status.**  illuminated, normal cleaning is underway.
- 5.  – Degas Status.** Illuminated, the degas function is selected. Flashing degassing is underway.
- 6. Timer Quick Set Key.** Touch , it displays 10:00 or other quick timer settings. Each touch increase it by 5 minutes.
- 7.  – Time Decreasing Key.** Touch  key each time reduces the timer by 1 minute.
- 8. Start/Stop Key.** After powering on, the LED display shows 10:00, which is the initial default time (as shown), and the unit is ready with the normal working status. Touch Start/Stop key twice and the cleaning starts. The cleaning stops when the timer counts down to 00:00. If the unit needs to be stopped before the timer runs out, touch Start/Stop key twice.

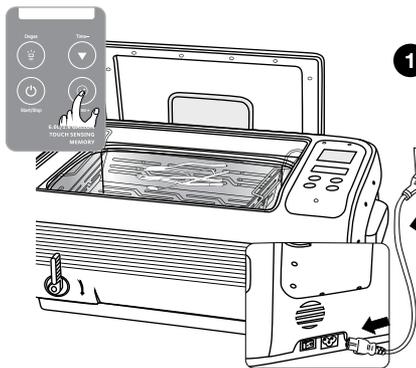


To prevent accidentally turning on or off the unit, the Start/Stop key needs to be touched within 6 seconds to turn it on or off.  flashes, indicating the unit is running under Normal Cleaning mode.

- 9. Degas Key.** Touch Degas key,  illuminates, indicating Degas function is selected. Touch Start/Stop key twice to start degassing.  will flash for 90 seconds, then the unit will return to the normal cleaning function. Touch Degas key before it ends will stop degassing.

Degas: When cleaning heavily soiled or greasy items or silver, copper or brass items, chemical solutions need to be added into the water. The solution may form many small droplets and take a long time to dissolve in the water. Newly added water may generate many air bubbles on the tank walls. These will reduce the cleaning effect in the beginning phase of ultrasonic cleaning. Turning on the degas function will dissipate the droplets and the air bubbles, usually in 90 seconds, and improve cleaning efficiency.

OPERATION GUIDELINES



1 UNIT SET UP

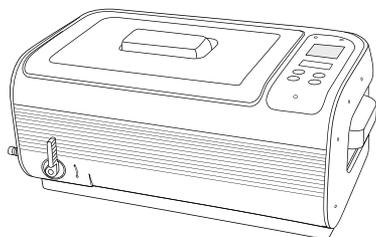
1. Connect the power cord to the back of the unit and to an outlet.
2. Turn the power switch found on the back of the unit to the On position.
3. LED display shows 1:00 = 00. This is the most common timer setting.

If the timer needs to be adjusted, touch TIME+ key for quick timer settings and Time- key for fine adjustment between 1 to 30 minutes. Select desired time setting by pressing the TIME key.

Please consult your instrument cleaner instructions as well as your instrument directions for use for proper automated cleaning.

Prolonged cleaning time may result in:

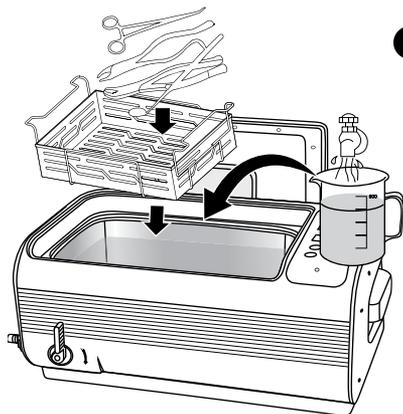
1. Loosening of the screws if used.
2. If items are plated and have existing cracks, the cracks may become more pronounced.
3. Coatings with preexisting damages may experience more peeling.



2 DEGAS PROCEDURE

1. Remove the cover and put it on the cover holder vertically. Add room temperature water to below the MAX but higher than the MIN fill lines.
2. Add OPTIM 28 Instrument Cleaning Solution per its Instructions for Use.
3. Touch the Degas button and allow it to operate for 90 seconds.

Please consult your Instrument cleaning Solution Instructions for Use to determine if degassing is required. OPTIM 28 does not require degassing.



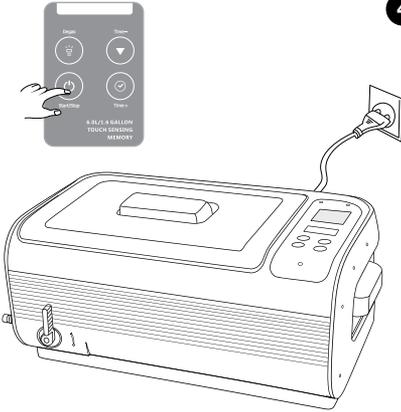
3 LOADING INSTRUMENTS

1. Put items in cassettes or basket and lower into the cleaning tank.
2. Confirm that the water level is between MIN and MAX and above the area to be cleaned.
3. If not, add room temperature water to the tank.



If the unit is turned on without water, ultrasonic energy will not be absorbed. Due to this unit's high power, if on without water for over 15 seconds damage to the unit may occur, severely reducing the life of the unit.

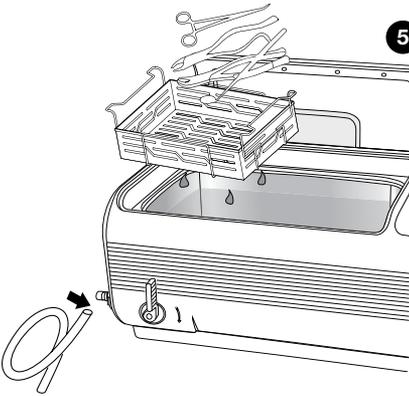
OPERATION GUIDELINES



4 CLEANING

1. Place the lid on the unit.
2. Touch the time button to set the timer to desired time. Refer to your Instrument Cleaning Solution's Instructions for Use to determine the required cleaning time. OPTIM 28 requires a 5 minute cleaning time.
3. Touch the Start/Stop button twice to activate the cleaning cycle.
4. When cleaning cycle is completed, open the lid and retrieve the cassettes or basket.

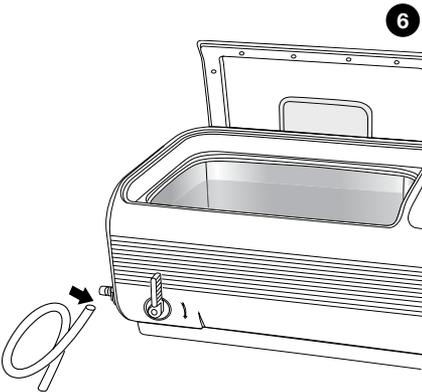
If additional cleaning is required reset the timer and repeat the process above.



5 RETRIEVING INSTRUMENTS

When cleaning cycle is completed, open the lid and retrieve the cassettes or basket.

Wipe out condensation water from the lid before placing it on the lid holder.



6 DRAINING TANK

At the end of the day, the tank should be drained, and cleaned.

1. Connect the hose to the drainage pipe as shown.
2. Turn the drainage valve handle clockwise to open the drain and remove the dirty water
3. Clean and wipe the tank dry.
4. Close the drainage valve.

MEMORY OPERATIONS

Equipped with advanced power off memory capability, this unit is able to memorize the latest quick timer.

Last timer setting recall.

1. Once the timer hits 00:00, either touch the Start/Stop key within 5 seconds to recall/repeat latest quick timer setting, or wait 5 seconds for the latest timer setting to appear.
2. If unit powers off during a cleaning cycle, the latest timer setting will appear once powered on.
3. If the quick timer setting is changed when the cycle is not started, it will remain until the cycle starts. However, it will not remain if the power is off.
4. If the Start/Stop key is touched twice during a cycle, the cycle and timer will stop. It resumes when the Start/Stop key is touched twice again.

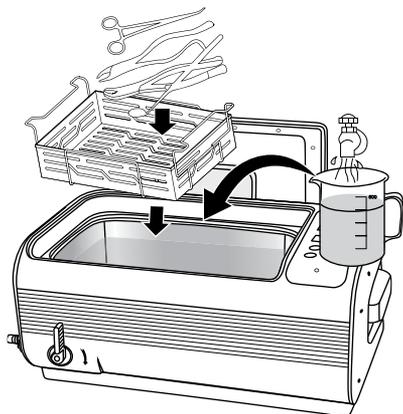
NOTE: To prevent accidental lockups of the touch-sensing control panel, please observe the following:

1. Do not touch two or more keys simultaneously.
2. Do not leave any liquids on the control panel.
3. Light touches are sufficient, do not aggressively push the control panel.

If the control panel is locked, do the following to reset it. If the first step does not work, move on to the second step.

1. Turn off the power switch.
2. Turn off the power switch multiple times.
3. Unplug the power cord and wait for 5-10 minutes.
4. Leave the unit unplugged for several hours.

COMMON CLEANING METHODS



A. Regular cleaning

Use filtered water for best results. You may add an instrument cleaning solution. We recommend OPT/M 28 Instrument Cleaner. Please ensure you follow its instructions for use.

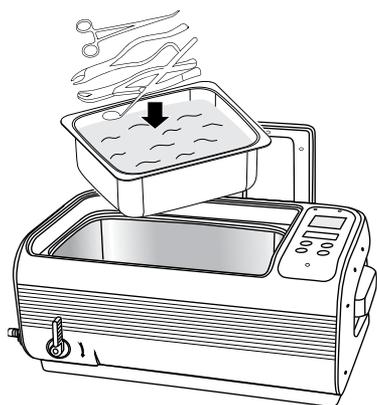
Suitable Locations:

Dental and medical offices and labs.

Cleaning Method:

1. Place dirty items into basket and set basket inside the tank.
2. Add water to the tank covering the area to be cleaned, keeping within the lines of MIN and MAX.
3. Turn the power switch on. Press Time button to set the timer. Consult your cleaner and/or instrument instructions for use for proper time. Press Start/Stop button twice to start cleaning.

NOTE: During cleaning, dirt will come off like a cloud and the water will gradually become murky. This is debris being removed from the instruments and indicates the instruments are being cleaned.



B. Indirect Cleaning

Put the items in a separate container.

Clean items using ultrasonic waves to penetrate the container.

Suitable Locations: Medical and dental instrument sterilization rooms. Different applications use different fluids to be used inside the container.

1. Small instruments such as burs and files. Keep them separate from main instrument cleaning.
2. Instruments that use a different solution such as cement remover.
3. Instruments that use corrosive solution such as a disinfectant that's corrosive. Avoid contacting the plastic housing with corrosive solutions.
4. Multiple patients' dentures or impressions. Disinfect the container after each patient.

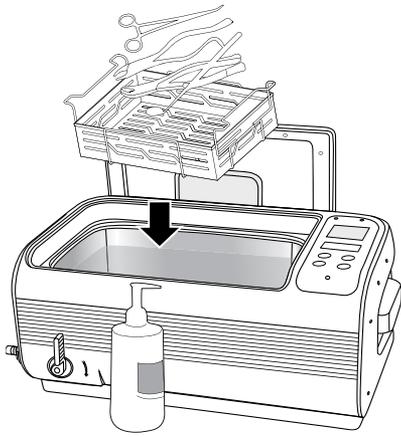
Cleaning Method:

1. Put the items to be cleaned in the recommended container. Add your instrument cleaning solution. We recommend OPT/M 28 Instrument Cleaner. Make sure you follow the instrument cleaning solution instructions for use.
2. Place the container in the tank directly. Add water to a level between MIN and MAX at least half inch or 13mm above the bottom of the container but, not over the container.
3. Turn the power switch on. Touch Time key to set the timer to 10 minutes. Consult your cleaner and/or instrument Directions for Use for proper time. Press Start/Stop key twice to start cleaning. Ultrasonic waves will penetrate the container and clean the items.

Selection of the container:

1. Plastic containers – Soft and will absorb 30% - 40% of ultrasound waves, reducing the cleaning effect
2. Aluminum containers – Absorbs ~20% of ultrasonic energy.
3. Glass beakers – Absorb ~5-10% of ultrasonic energy
4. Stainless steel containers – Absorbs ~8% of ultrasonic energy.

COMMON CLEANING METHODS

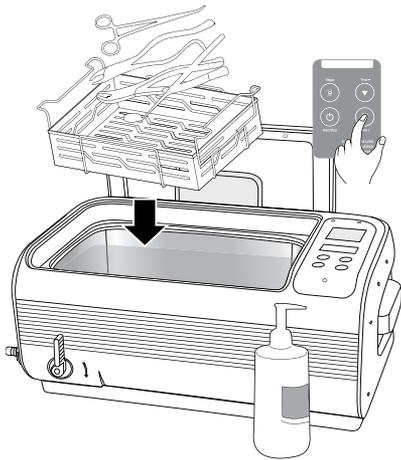


C. Enhanced cleaning.

Debris accumulated over a long period of time, heavily soiled.

Cleaning Method:

1. Large items can be put in the tank directly, small items need to be placed into baskets beforehand. Do not put items atop each other to prevent rubbing during cleaning.
2. Add room temperature water to the max fill line. You may add an instrument cleaning solution. We recommend OPT/M 28 Instrument Cleaner. Please ensure you follow its instructions for use.
3. Turn the power on.
4. Press Time key to set the timer to 15 minutes. Press Start/Stop key to start cleaning.
5. When it stops, open the drainage valve to release the dirty water. Close the valve afterwards.
6. Clean the tank and add fresh water. Wash the items for another 3 minutes to remove the residual debris and detergent.



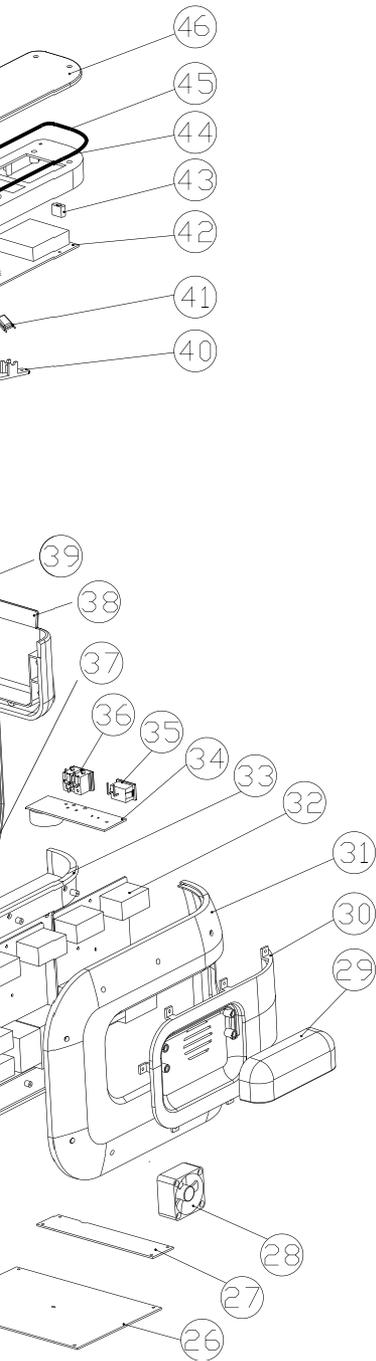
D. Special cleaning

Silver, copper or brass items that oxidize and darken need special cleaning.

Cleaning Method:

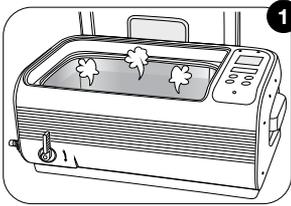
1. Place items into basket and then into the tank, adding water to a level within MIN and MAX, covering the area to be cleaned. Add proper solution that can remove metal oxidation according to the recommended ratio.
2. Press Time key to set the timer to 15 minutes.
3. When done, remove basket and items. Rinse the items with tap water or follow step 6 in the Enhanced Cleaning section.

During cleaning, debris comes off like a cloud, mucking the water. This method removes silver and copper oxidation making the items pristine again.



No.	Item	Material
1	Top handle	ABS
2	Lid-window	AS
3	Lid-top	ABS
4	Lid-bottom	ABS
5	Top ring	ABS
6	Stainless steel basket	SUS 304
7	Stainless steel rack	SUS 304
8	Silicon seal	Silicone rubber
9	Stainless steel tank	SUS 304
10	Left cover	ABS
11	Left handle	ABS
12	Left panel	ABS
13	Inner tank	ABS
14	Front cover	ABS
15	Drain	SUS 304
16	Washer	AL
17	Nut	AL
18	Hose	Rubber
19	Nut	ABS
20	Spout	PP
21	Ball valve	Standard part
22	Bracket	ABS
23	Elbow	PP
24	Valve handle	PC
25	Bottom cover	ABS
26	Main power PCB	94V0
27	Filter PCB	94V0
28	Cooling fan	Standard part
29	Right handle	ABS
30	Right panel	ABS
31	Right cover	ABS
32	Transducer PCB	94V0
33	PCB mounting bracket	ABS
34	Power switch PCB	94V0
35	Power switch	Standard part
36	Power socket	Standard part
37	Thermal sensor	Standard part
38	Cover holder	ABS
39	Back cover	ABS
40	Thermal sensor holder	ABS
41	Thermal switch	A 0 - 3 A- F
42	Control panel PCB	94V0
43	Light socket	ABS
44	Control panel box	ABS
45	Control panel silicon seal	Silicone rubber
46	Control panel cover	PC

CARE AND MAINTENANCE

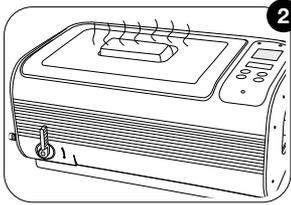


1 Do not turn on the unit without water in the tank.

Although the unit is designed with multiple protections, if the unit is turned on without water for over 15 seconds, it could severely damage the unit and reduce the life of the unit.

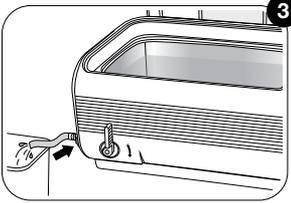


A thermal switch is attached to the bottom of the cleaning tank. If the unit is turned on accidentally without water in the tank, the ultrasonic energy will not be transferred out through the liquid and instead will be concentrated on the tank, causing the temperature of the tank to continue to rise. This will trigger the thermal switch to cut off power to stop the ultrasonic transducer from running, thereby preventing damages to the unit and fire hazard. The switch cuts off power for approximately 6-10 minutes and then reconnects the power automatically.



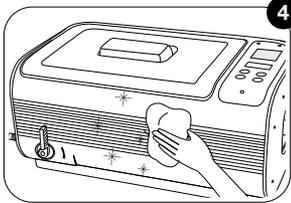
2 Do not run the unit for extended periods of time or continuously.

Designed with overheat protection, if the unit has been running for 45 minutes, it is recommended to stop the unit for 20 minutes to prolong the life of the unit



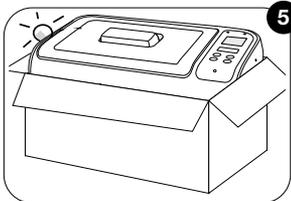
3 Do not keep chemicals in the cleaning tank overnight or when it looks dirty.

After cleaning is completed, open the drainage valve to drain the dirty water. Clean and wipe the tank dry.



4 Do not spray water over the housing.

Use a towel to wipe the tank and the housing dry.



5 Do not expose the unit under direct sunlight for extended periods of time.

Keep the unit in a dry, cool and ventilated area.

Keep the original packing material in case it needs to be sent in for servicing. If it is no longer available, use enough cushioning equivalent to a minimum 1" Styrofoam all around the unit inside the shipping carton to avoid damages to fragile transducers. Warranty does not cover damages during shipping.

CARE AND MAINTENANCE

StatClean Audit Procedure - Foil Test

Ultrasonic cleaners shall be tested at least weekly for cleaning performance as per the protocol recommended in the manufacturer's instructions for use. The test results shall be documented.

Procedure:

1. Remove the lid, basket, containers and any beakers.
2. Clean the tank thoroughly.
3. Fill the tank with water to its max fill line and add an instrument cleaning solution, we recommend OPTIM 28 (do not replace the basket).
4. Take a piece of autoclave tape and run it from the left hand front corner to the right hand back corner.
5. Obtain a piece of standard household aluminum foil and cut 3 pieces 2cm (3/4") wide and 14cm (5.5") long. Fold each piece to L shape along the length.
6. Stick the 3 pieces evenly spaced from left to right across the center of the tank, sticking the end to the the underside of the tape. Keep the foil vertically into the water with the bottom edge approximately 1cm (1/2") above the bottom of the tank.
7. Replace the lid on the unit.
8. Turn on the ultrasonic machine and run for 1 minute.
9. Once the time has been reached, stop the unit and remove the lid.
10. Remove the foils and inspect. The foils should be perforated along the 3 edges with more damages toward the bottom.
11. If either one on the left or the right has no obvious perforations, the transducer near that foil may not be working properly. Call for service if this happens.

SPECIFICATIONS

Description	StatClean Ultrasonic Cleaner	
Model	SC-P4862	
Tank Capacity	6.0 L / 1.6 gallon (US)	Max. 5.0 L / 1.3 gallon (US) Min. 3.35 L / 0.9 gallon (US)
Tank Size	32.3 x 20.5 x 9.9 cm / 12.8" x 8.1" x 3.9"	
Longest Item Fits inside Tank	34.0 cm / 13.4"	
Power Supply	260 W (AC 100~120 V 50/60 Hz) 300 W (AC 220~240 V 50/60 Hz) 250 W (AC 100 V 50/60 Hz)	
Digital Timer Settings	1 to 30 - minute full range timer	
Drainage	Drainage valve	
Ultrasonic Frequency	35,000 Hz	
Tank Material	Stainless Steel SUS304	
Housing Material	ABS	
Net Weight	7.5 kg / 16.5 lb	
Gross Weight	8.6 kg / 19.0 lb	
Unit Size	51.5 x 30.5 x 24.0 cm / 20.3" x 12.0" x 9.4"	
Inner Carton Size	57.5 x 37.0 x 32.5 cm / 22.6" x 14.6" x 12.8"	
Qty per Master Carton	1 pc /ctn	
Master Carton Size	60.0 x 38.5 x 34.5 cm / 23.6" x 15.2" x 13.6"	

Warranty

This unit carries a two-year warranty for parts and labor for quality defects. Damages caused by misuse or careless uses of the unit are not covered. Repaired unit is to be shipped to continental US and Canada addresses only. Contact us first, then send the unit with a copy of the original invoice or receipt back to:

SciCan Inc.
701 Technology Drive
Canonsburg, PA 15317
800-572-1211 • www.scican.com

Manufactured for:
SciCan Ltd.
1440 Don Mills Rd.
Toronto, Ontario M3B 3P9 Canada
1-800-667-7733 • www.scican.com