

maxima[®]

by  HENRY SCHEIN[®]

ADVANCED

INSTRUCTIONS FOR USE

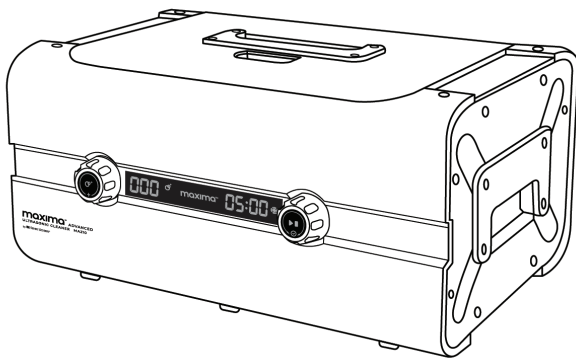
Read before use. Keep in a safe place for future reference.



CAUTION: Federal (US) law restricts this device to sale by or on the order of a licensed professional.

Ultrasonic Cleaner MA210

REF 570-3794



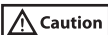
INDICATIONS FOR USE

The Maxima Advanced Ultrasonic Cleaner MA210 is designed to thoroughly wash (remove blood, tissue, and small particles) instruments prior to disinfection. The system is suitable for use in dental offices to clean dental instruments.

INTENDED USE

The Maxima Advanced Ultrasonic Cleaner MA210 is intended for cleaning dental instruments by the emission of high frequency soundwaves.

HEALTH AND SAFETY



Caution

- Danger of electrical shock! Never touch the power plug with wet hands, especially when inserting or removing the plug.
- Danger of electrical shock! If the unit falls into water, unplug it immediately; do not reach into the water. Send to Henry Schein[®] Handpiece & Small Equipment Solutions for evaluation and repair.
- Never allow power cord to be pulled, twisted or severely bent. Never operate unit if cord, power plug, or housing is damaged or loose.
- Never block the vents on the device. Keep the vents free from lint, hair and other materials.
- Keep unit away from excessive heat sources.
- To avoid risk of electrical shock, equipment damage or fire during an electrical storm, turn machine off and do not touch machine or cord.
- Danger of electrical shock! Do not use while bathing. Never immerse the device or the power cord in water or other liquid.
- Danger of electrical shock! Do not spray water or liquid over the device.

GENERAL OPERATIONS/SAFETY PRECAUTIONS

Caution

- Do not turn on the unit without water in the tank. Dry running over 30 seconds will damage the unit or severely reduce the life of the unit.
- Do not place instruments directly on the base of the tank. Placing instruments directly on the base of the tank will result in damage to the unit. Place instruments into the basket for proper use.
- Do not run the unit without water in the tank.
- Normal cleaning time is 5 minutes only per layer of instruments or cassette, no more than 10-15 minutes per batch. Take a break for 1/3 to 1/2 of the running time if longer running time is needed.
- Do not cause water to get inside the housing through vents or other places. Do not wash it, only wipe it.
- Do not spray disinfectant towards the unit otherwise it may cause corrosion internally. Only wipe it.
- Keep the lid closed during running. Beeping sound will be heard if the lid is opened during running.
- Do not run the unit without the lid on. The lid helps reduce aerosols and reduce noise.
- Avoid cleaning burs and files in the main tank directly otherwise they may get into the drainage valve and cause damage. Use a beaker or cleaning chamber. See accessories.
- 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.
- Do not use outdoors.
- To reduce the risk of electrical shock, do not put the appliance in water or other liquid. Do not place or store appliance where it can fall or be pulled into a tub or sink.
- Do not run the unit for an extended time or continuously. If the unit has been running for 30 minutes, it is recommended to stop the unit for about 10 minutes.
- Do not use components unapproved by the manufacturer.
- Place the device on a dry and flat surface for operation.
- If any abnormalities are found, stop using immediately and contact Henry Schein® Handpiece & Small Equipment Solutions.
- This device should only be operated by a professional.
- Never operate the device unattended.
- Disconnect the power cord from the unit before cleaning the device, if malfunction occurs, if the device is not going to be used for prolonged period, and after each use (recommended).
- Follow the manual to operate the device.
- Never disassemble the unit. All servicing of this unit is to be conducted by a qualified service personnel.
- When removing the power cord from the socket, grab the power plug, not the cord.
- To protect the power cord from damage, do not cause it to get caught by things such as a cupboard door or a chair leg; do not drag across a hot surface.
- If there is damage to the power plug, cord, housing, or other parts of the device, do not use the device.
- The installation of an earth leakage circuit breaker with a rated tripping current of no more than 30mA provides further protection against an electrical shock. The installation should only be carried out by a trained electrician.

Keep away from children!

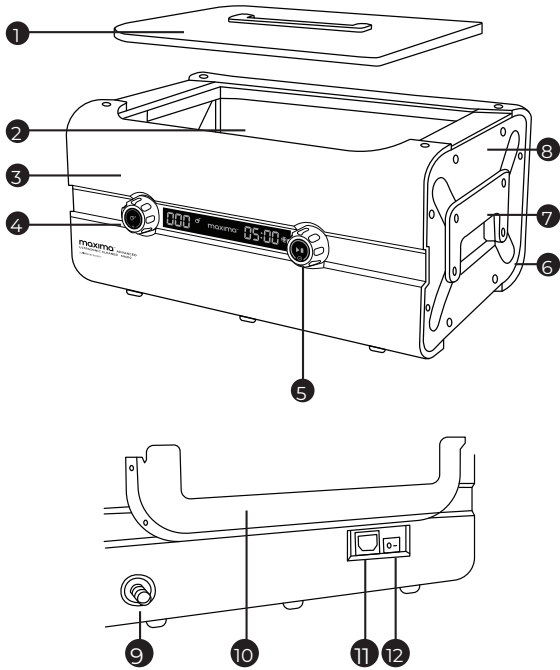
- Please store the ultrasonic cleaner where it is not reachable by children.
- Danger to children! Danger for death through suffocation! Keep the packaging material away from children.
- This appliance shall not be used by children. Keep the appliance and its cord out of reach of children.

To prevent fire hazards, please observe the following:

- Never block the vents on the device. Keep the vents free from lint, hair, and other materials.
- 2 - Maxima Advanced Ultrasonic Cleaner MA210

- Do not place the device on a soft surface, such as a bed or a couch, where the vents could be blocked.
- Observe the other warnings in the previous section.
- If the supply cord is damaged, it must be replaced by Henry Schein in order to avoid a hazard.

PRODUCT STRUCTURE AND ACCESSORIES



- | | | |
|----------------------------------|---------------------------|--------------------|
| 1. Lid | 5. Set Time/ Start & Stop | 9. Drainage Sprout |
| 2. Stainless Steel Cleaning Tank | 6. Drainage Valve Handle | 10. Lid Holder |
| 3. Aluminum Front Panel | 7. Aluminum Handle | 11. Power Socket |
| 4. Degas Dial | 8. Plastic Side Panel | 12. Power Switch |

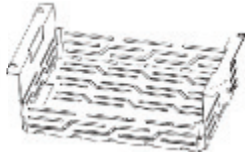
Standard Accessories



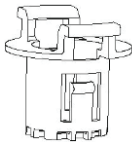
Power Cord
570-3824



Drain Hose (39" long)
570-3805

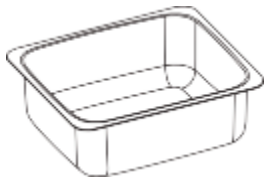


Stainless Steel Basket
570-3806



Strainer

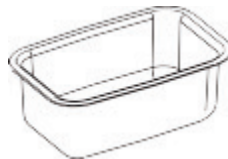
Optional Accessories



Large Stainless Steel Removable
Cleaning Chamber
(8.5" x 8.4" x 3.2")
570-3803

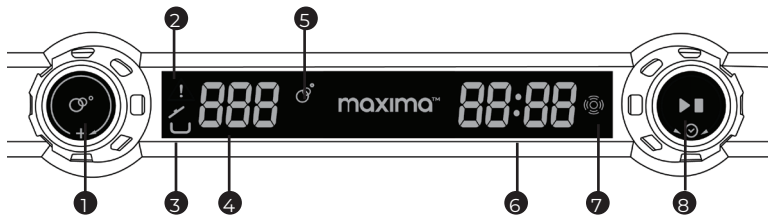


Stainless Steel Beaker
570-3802



Small Stainless Steel Removable
Cleaning Chamber
(9.0" x 5.0" x 3.0")
570-3804

CONTROL PANEL

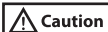


1. **Degas dial.** Turn it clockwise or counterclockwise to select the degas timer setting, either 60, 120 or 180 seconds. This setting determines the automatic and manual degas time. Push in the dial to start degassing.
2. **Warning.** Stop operations and see troubleshooting guide (pg 7).
3. **Open lid warning.** The lid should be closed during operation to prevent the spread of aerosols. The warning symbol helps to standardize operations. The open-lid warning symbol is illuminated if the unit is not in cycle. Additional warning beeps are sounded if the unit is in cycle.
4. 60, 120 or 180 Degas timer display. It displays the degas timer setting and how much degas time remains in seconds (s).
5. **Degas status.** flashes, indicating degas is underway.
6. **05:00. Ultrasonic time display.** It displays the timer setting and how much time remains in the ultrasonic cleaner operation.
7. **Ultrasonic cleaning status.** illuminated, normal cleaning is under way.
8. **Set time dial/start and stop.** Rotating either clockwise or counterclockwise can set the timer to 5 settings: 5:00 – 7:30 – 10:00 – 12:30 – 15:00 mins. Once the timer is set, push in the dial to start.

SETUP

1. Place your ultrasonic cleaner in a desired location on a dry flat surface next to a sink.
2. Connect the hose. Connect one end of the drain hose to the drain valve and place the other end in the sink. The drain valve is located behind the unit on the right side.
3. Plug In the unit. Attach the power cord into the back of the unit. Ensure that it is properly attached and that the cord is undamaged. Drainage spout at rear. Drain hose can be oriented left or right.
4. Turn unit on. The power switch to turn the unit on is located in the back of the unit on the left side just above the power socket.

OPERATION



Caution

- Do not turn on the unit without water in the tank. Dry running will damage the unit.
- Do not place instruments directly on the base of the tank. Place instruments into the basket for proper use.
- Avoid cleaning burs directly in the main tank. Use beakers or cleaning chamber.

Operation Steps

Used when cleaning with loose instruments or cassettes. For burs, files, or corrosive solutions see the accessories section below.

1. Remove basket and ensure drainage valve handle is in the closed position.
2. Follow the ultrasonic cleaner solution dosage instructions per cleaning solution label. Fill the unit with ultrasonic cleaner solution (general purpose, enzymatic) between the MIN and MAX lines.
3. Place instruments to be cleaned directly into the basket, or into cassettes. If in cassettes, place the cassettes into the basket. Then place the basket directly into the main tank already containing ultrasonic cleaner solution.
4. Place the lid on the unit to reduce aerosols and noise.
5. Using the right knob, set the unit to the proper cleaning time (see below) and press the knob in to run the unit. To pause cleaning, push in the dial again.
6. After cleaning, rinse the basket and instruments thoroughly under running water.

Determining Proper Cleaning Time

This unit cleans much faster and more thoroughly than most other ultrasonic cleaners on the market. You should expect it to clean in 1/2 to 1/3 of the time it takes for other common ultrasonic cleaners. Typical cleaning time is:

- 5 minutes for one layer of loose instruments or cassette
- 10 minutes for two layers of loose instruments or cassettes

Before starting with routine cleaning, test runs should be conducted to establish proper cleaning time. With a standard batch of instruments, run cleaning at 5 minutes then check the condition of the instruments. Add more time until satisfactory result is achieved. Repeat the test a couple of more times to establish a reliable, proper and standard time.

Do not run it with excessive time as it is unnecessary, and it counts towards the unit's service life.

Degassing

Degassing the cleaning solution is a necessary step to eliminate large air bubbles that interfere with the cleaning process. This unit runs degassing automatically during the first run when the unit is first turned on. Degassing can be initiated manually with the left knob button and should be done anytime new solution is added without turning the unit off. Automatic and manual degas time can be set by rotating the left knob. The degas timer can be set to either 60, 120, or 180 seconds using the left knob.

Cleaning With Accessories

Beakers

1. Place small items such as burs and files in the beakers. Add ultrasonic cleaner solution into the beakers to submerge the items inside. Place the clear lids over the beakers if needed.
2. Place the beakers inside the basket and place them inside the tank. If the liquid level in the tank is close to MAX already, discharge some liquid. The bottom of the beakers should be in contact with water or solution in the tank.
3. Close the lid. Turn the power switch on. Turn the timer dial to select the time. Choose 10 minutes and push in the dial to turn on the ultrasound.

Cleaning Chamber

The removable cleaning chamber is used when corrosive or dangerous solution is used or to reduce the amount of cleaning solution needed for small loads.

1. Add tap water in the main tank to the MIN line.
2. Add instruments inside the removable cleaning chamber. Add proper solution to submerge the items.

3. Place the removable cleaning chamber across the top of the tank. The bottom of the chamber should be in contact with water for about 1/2" or 10 mm in depth. Ultrasound will penetrate the removable chamber to clean the items inside.
4. Close the lid. Turn on the power switch. Turn the timer dial to select the cleaning time. Choose 5 to 10 minutes and push in the dial to start ultrasound."

MACHINE CLEANING AND MAINTENANCE

- Do not run the unit for extended time or continuously. The unit is designed with overheat protection. If the unit has been running for 30 minutes, it is recommended to stop the unit for about 10 minutes to prolong the life of the unit.
- Do not keep water in the cleaning tank for a long time. After cleaning is completed, open the drainage valve to drain the dirty water. Clean and wipe the tank dry.
- Keep a strainer over the drain inlet to prevent small instruments such as burs and files or large debris from clogging the drain valve.
- If condensation water forms on the lid, shake it off or wipe it before placing the lid on the lid holder to avoid water dripping down from the lid.
- Do not spread disinfectant over the housing or the tank. Use clean water to wipe the housing. Use a paper towel to dry up the tank and the housing. Use a disinfectant wipe that doesn't damage aluminum and ABS plastic to wipe the tank and the housing if needed. Many disinfectants and bleach products contain sodium hypochlorite with strong oxidation. They will darken the aluminum housing.
- Do not use corrosive solutions such as liquid bleaches in the stainless steel tank.
- Do not use corrosive solutions such as paint thinner or acetone as it will corrode plastic housing. Do not use flammable solutions.
- Do not use osmosis water or highly purified water as they may corrode metals aggressively. Avoid spilling water over the control panel or inside the housing.
- Keep the unit in a dry, cool and ventilated area.
- Do not expose the unit under direct sunshine for a long time.
- Keep the original packing material in case of sending it for repair service. If it is no longer available, use enough cushioning equivalent to minimum 2" of Styrofoam all around the unit inside the shipping carton to avoid damages to fragile transducers.

Foil Test

Ultrasonic cleaners should be tested periodically or as needed for cleaning performance and to verify that the transducers are working properly. The test results should be documented.

Procedure:

Remove the lid, basket, containers, and anything else in the tank.

1. Clean the tank thoroughly.
2. Fill the tank with water to halfway between the MIN and the MAX lines.
3. Take 2 pieces of autoclave tape and run them from left to right over the top rim of the tank. One tape goes over the centers of 2 round cycles on the bottom of the tank. One tape goes over the third cycle on the bottom of the tank. The transducers that generate ultrasound are mounted underneath each circle.
4. Obtain a piece of standard household aluminum foil and cut 3 pieces 2cm (3/4") wide and 13 cm (5") long. Fold each piece to L shape along the length. Do not use heavy duty foil.
5. Stick one foil above the center of each circle, sticking the end to the underside of the tape. Keep the foils vertically into the water with the bottom edge approximately 2-3 cm (1") above the bottom of the tank.
6. Turn on the ultrasound under the normal cleaning mode and run for 1 minute. Stop it once the time has been reached.
7. Remove the foils and inspect. The foils should be perforated or knocked off along the 3 edges.
8. If any one of the foils has no obvious perforations, the transducer near that foil may not be working properly. Call Henry Schein® Handpiece & Small Equipment Solutions if this happens.
9. Flush out the loose foil particles from the tank and clean it thoroughly.



TROUBLE SHOOTING

Problem	Cause	Solution
Warning symbol is on; the unit has been running extensively.	At least one of the transducers is under overheat protection.	Stop the unit for 15 minutes or more until the warning symbol dims before resuming operations.
Warning symbol is on; Warning symbol doesn't turn off after unit is left idling for 15 minutes.	At least one transducer is not working.	Contact Henry Schein Handpieces & Small Equipment (pg 8).
Unit isn't draining properly.	Debris is caught in hose.	Detach the drainage hose and flush out any debris in hose and inside the unit.
Unit is beeping.	Unit is running but the lid is off.	Place the lid back the unit.
Unit is not turning on.	The power cord may be loose or detached.	Check the power cord and ensure power is coming from the outlet it is plugged into.

SPECIFICATIONS

Description	Ultrasonic Cleaner	
Model	Maxima Advanced Ultrasonic Cleaner MA210	
Tank Capacity	8.0L / 2.1 gallon (US)	Max. 7.0 L / 1.8 gallon (US)
		Min. 3.6 L / 0.95 gallon (US)
Tank Size	33.1x23.8x11.6 cm / 13.0"x9.4"x4.6"	
Longest Item Fits inside Tank	37.0 cm / 14.4"	
Power Supply	240W AC 100~120V 60Hz	
	240W AC 220~240V 50Hz	
Timer settings	5min > 7.5min > 10min > 12.5min > 15min	
Degas timer settings	60, 120, 180 seconds	
Ultrasonic Frequency	48KHz ± 3KHz	
Tank Material	Stainless Steel SUS304	
Housing Material	Aluminum + ABS	
Net Weight	14.3 kg / 31.5lb	
Gross Weight	17.1 kg / 37.7lb	
Unit Size	46.6x35x22.9 cm / 18.3"x13.8"x9.0"	

SERVICE

For items that require service, including warranty service, please send to Henry Schein® Handpiece & Small Equipment Solutions.

Henry Schein Handpiece & Small Equipment Solutions
620 S. Placentia Ave.
Placentia, CA 92870 USA
Phone # 800-235-6337 Prompt 1

WARRANTY

This product is designed for use in a dental office and this warranty is not applicable to other uses. This product is warranted against manufacturing defects in materials and workmanship for 3 years from date of purchase.

Henry Schein® will repair or replace product at its sole discretion. This warranty shall be limited to replacement or repair of the product or its parts and shall not extend to any other claims, including but not limited to loss of profit, cost of removal or replacement, incidental or consequential damages or other similar claims arising from use of this product. Damage to product resulting from acts of God, faulty installation, misuse, tampering, accident, abuse, negligence, alterations, unauthorized repairs or problems unrelated to materials and workmanship are not covered by this warranty.

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MELVILLE, NY 11747 USA

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