



1.5PT NEXT-GEN
COMMERCIAL ULTRASONIC
OPERATING PROCEDURES & MANUAL

GEMORO[®]
POWERFUL ULTRASONICS

Congratulations on your purchase of a GemOro Powerful Ultrasonics, the most trusted name in ultrasonic cleaning equipment for the professional. You've made a smart choice, as your new NEXT-GEN GemOro ultrasonic is the culmination of years of experience and technological breakthroughs in R&D. GemOro's proprietary TURBO SWEEP TECHNOLOGY frequency mode provides the most efficient and fastest cleaning possible. The engineers at GemOro have designed the ultimate ultrasonic cleaner, with amazing power, workhorse reliability and unequalled performance that is built to last for years.

The Four Basic Steps

- STEP 1** Add an appropriate mixture of tap water to the ultrasonic tank along with one of the specially formulated, super concentrated GemOro ultrasonic cleaning solutions referenced in the back section of this manual for the ultimate in cleaning and brightening of your jewelry. Fill it approximately to 1/2 inch or 13mm from the rim of the tank. **NEVER operate the ultrasonic when empty or damage may occur.**
- STEP 2** Connect to an electrical outlet or power source with the appropriate voltage of 110-120V.
- STEP 3** Place the jewelry to be cleaned in the supplied basket or you may use an optional ring rack and submerge it in the tank. **NEVER place items you wish to clean on the tank bottom or damage may occur.**
- STEP 4** Set the timer to the appropriate length of cleaning time, which will depend on the load, and the extent of dirt and grime on the items being cleaned.

Product Reference Guide

1. Turbo Sweep Mode / Power Off Switch
2. Timer LED Indicator
3. 0-60 Minute Timer Knob
4. Heat Dispersion Vents
5. Power Entry Connector & Fuse Compartment
6. Product Information Sticker
7. Stainless Steel Cover



Safety Symbols

This manual is marked with the universal **HAZARD** symbol  in order to alert you of specific areas within the manual that the operator must carefully read in advance of using in order to prevent damage to the ultrasonic and/or injury to the operator.

Electrical Power Installation

Your GemOro Powerful Ultrasonics unit has been factory preset for use with 110-120 volt operation. The ultrasonic unit is supplied with a three prong electrical plug.  **DO NOT remove the grounding prong from this connector, as it may cause an electrical shock!**  Plug into an electrical outlet that has a ground fault protection device (GFI, GFCI) for optimum safe operation.  When possible, plug the ultrasonic into a separate dedicated circuit/outlet. Some electrical circuits/outlets will not supply enough power to properly run more than one electrical appliance, especially if large appliances such as steamers, polishers, dust collectors, etc. are being operated at the same time. Reduction of cavitation in your ultrasonic could be the end result of not enough power to your unit.

Water Solution Mixture in Ultrasonic Tank

To maximize the cleaning process, the proper cleaning solution must be added to the water in the ultrasonic tank. We recommend using any of the specially formulated, super concentrated GemOro cleaning solutions referenced in the back section of this manual for the ultimate in cleaning and brightening of your jewelry.  **WARNING: Do not use flammable solutions (that contain alcohol, etc.) or acid-based solutions (such as Drano, etc.) or ammonia-based solutions (such as Mr. Clean, etc.) in your ultrasonic.**  **Under any circumstances, NEVER TURN YOUR ULTRASONIC ON WHEN THE TANK IS EMPTY.** Place the water/cleaning solution mixture in the tank while filling the tank to approximately one inch from the tank's rim.

Submerge the jewelry to be cleaned in the tank no less than 1/2 inch or 13mm below the solution surface to obtain optimal cleaning and be certain not to place jewelry or anything being cleaned on the bottom of the tank, because it may damage the transducers and void the warranty.  Be careful not to clean heavily included stones (such as emeralds), because the ultrasonic sound waves and/or heat may crack the stone. Be certain not to clean soft, water porous stones (such as pearls, opals, coral, turquoise, etc.) as they too may be damaged.  Be certain not to clean any oil treated stones in any cleaning solution which may contain a degreasing agent, as the solution may revert the stone back to its untreated condition. Typically, items such as gold, silver, platinum, diamonds, rubies, sapphires etc. are safe for ultrasonic cleaning. **For more specific information on which stones are suitable for cleaning in an ultrasonic please refer to Page 11 of this manual and we also suggest you contact a gemologist or GIA (Gemological Institute of America). Do not submerge watches in any ultrasonic, as damage to the watch may occur.** However, it may be safe to carefully submerge the metal watchband into the tank for a brief cleaning while being certain not to submerge the head of the watch as any time. At your own risk, before attempting this, always be certain the watches stem is fully inserted and/or tightened all of the way in.

Turn Ultrasonic On By Turning the Timer Knob Clockwise

Depending on the load in the tank and how dirty the jewelry is that you are cleaning will determine the length of cleaning time required. **NEVER block the timer for continuous usage, as the GemOro Powerful Ultrasonics unit has been designed to perform for many years and to do so would potentially damage the unit or shorten its life span, as well as void the warranty.** All of the specially formulated GemOro concentrated cleaning solutions are designed to work best with your GemOro Powerful Ultrasonic cleaner. This feature allows the dirt, grime, etc. to be broken down and loosened from the jewelry much faster than other traditional cleaning solutions.

NOTE: Optimal cleaning temperatures for ultrasonics ranges from 104°F to 140°F. Generally, the higher the temperature, the more effective cleaning will occur. However, after approximately 158°F, cavitation power begins to become diminished. Only use high-temperatures if you desire more of a degreasing effect over cavitation power.

Turbo Sweep™ Mode

GemOro Sweep Frequency Technology has been recognized for years as the most powerful ultrasonic cleaning system available. This powerful technology is seen in the ultrasonic as significantly more aggressive ultrasonic cavitation within the ultrasonic tank, resulting in faster and more efficient cleaning in reduced time. (It should be noted that the vast majority of the ultrasonics produced by the various competitive ultrasonic manufacturers utilize the older non-sweep ultrasonic technology that can be seen by their relatively flat, non-aggressive cavitation within the ultrasonic tank.) Amazingly enough, while sweep technology has been considered the best for cleaning, the engineers at GemOro have since developed an even more powerful cleaning technology with its proprietary Turbo Sweep. This powerful, remarkable cleaning technology is clearly visible in the ultrasonic tank with significantly greater and more aggressive cavitation. The result is the fastest, most efficient cleaning available - period.

 IMPORTANT: BE CERTAIN TO ADD WATER AS IT EVAPORATES FROM THE TANK AND DO NOT LET THE WATER LEVEL FALL BELOW APPROXIMATELY 1 INCH OR 25MM FROM THE RIM.

Sealed Switch with Water Resistant Rubber Boot Cover

GemOro Powerful Ultrasonics feature a water resistant rubber boot cover which seals the switch from moisture penetration and allows for easy wash-down when cleaning and maintaining the ultrasonic after use.

Typical Degassing Period for Solution

Water that has not been degassed will cause the cavitation (action) of the ultrasonic to appear very slow or flat. Depending on the solution you are mixing with water in your unit, degassing time with most ultrasonics may vary from less than five (5) to as much as fifteen (15) minutes depending upon factors such as temperature and soap content. The rule of thumb is that the thicker and slimier the solution is, the less time the degassing process will take. Degassing is the natural process of removing gasses from any tank solution

being affected by ultrasonic sound waves. Degassing occurs whenever you first use your ultrasonic with fresh water/solution and will recur each time you add to or change your water/solution.

Exclusive Instantaneous Auto-Degassing System

Unlike traditional ultrasonics, GemOro Powerful Ultrasonics feature a proprietary system which provides almost instantaneous degassing, which gives users the ability to not only clean better, but faster too.

Cavitation

Inertial cavitation occurs in the presence of an acoustic field. Microscopic gas bubbles which are generally present in a liquid will be forced to oscillate due to an applied acoustic field. If the acoustic intensity is sufficiently high, the bubbles will first grow in size and then rapidly collapse or implode at which point the gas within dissipates into the surrounding liquid via a rather violent mechanism, which releases a significant amount of energy in the form of an acoustic shock-wave and as visible light. At the point of total collapse, the temperature of the vapor within the bubble may be several thousand degrees Kelvin and the pressure several hundred atmospheres. Ultrasonic cleaning baths efficiently utilize the inertial cavitation of microscopic gas bubbles for the cleaning of dirt from materials such as jewelry, medical instruments, etc.

When the cavitation bubbles collapse or implode they focus liquid energy into very small volumes. Thereby, they create spots of high temperature and emit shock waves which are the source of the noise typically heard with ultrasonic cleaners. Although the collapse of the bubbles is a relatively low energy event, it is highly localized and can and does erode metals such as stainless steel over time. The pitting seen in ultrasonic tanks caused by the collapse of bubbles produces great wear on the stainless steel tanks in ultrasonics as well as ultrasonic components and can dramatically shorten the lifetime an ultrasonic cleaner, especially its tank. Because of this reality, every ultrasonic tank will eventually fail due to erosion and depending on the ultrasonics usage the lifespan of the ultrasonic and tank will vary from ultrasonic to ultrasonic. Ultrasonics systems that are operated excessively simply reach the end of their lifetime sooner than those that are not. In addition to the erosion caused by cavitation - the elevated bath temperatures from heavy or prolonged operation contributes dramatically in assisting with the speed in which erosion will naturally occur in this type environment. Further, with the understanding that acidic or caustic chemicals (as described and expressly warned against further in this document) will directly damage the tank causing quick erosion while voiding the ultrasonics warranty. It should be recognized that many buffing compounds like rouge contain abrasives that will also over time speed up the erosion process of the stainless steel tank as well. With this in mind and to slow down the process of erosion as a result of abrasives in the solution, it is highly recommended that users change their dirty cleaning solution and clean out the tank at minimum daily depending on usage.

Power Surge & Built-In Fuse Protection

 GemOro Powerful Ultrasonics feature protection for the electronics from the unlikely event of a power surge or short circuit. This could otherwise cause severe damage to the electronics within the ultrasonic.  In the event your ultrasonic shows no indication

of power, you must first disconnect the power cord before attempting the basic service of fuse replacement. Then locate the external fuse holder that is conveniently located in the rear side of the ultrasonic housing, connected to the power-entry connector. With a small screwdriver, pull open the fuse drawer underneath the plug outlet on the power-entry connector. Carefully take out the fuse while noting its condition. A blackened glass window or broken fuse wire indicates that the fuse has blown. Replace it with a new fuse of the exact type and rating as indicated on the Unit Technical Specifications (located on Page 12). Once you have replaced the fuse, then plug-in the ultrasonic to its power receptacle and resume cleaning. ⚠️ If the fuse fails again or the ultrasonic still will not function, this is an indication that a more serious problem exists and that the ultrasonic is in need of service by the factory.

Turbo Sweep™ Technology - Unmatched Cavitation

As you can clearly see, the visible cavitation produced by the GemOro Turbo Sweep technology is significantly greater than is seen by the traditional competitive ultrasonic cleaner. This more powerful cavitation offers the most efficient ultrasonic cleaning available, and as a result it can clean much faster, while allowing dirt in even the smallest nooks and crannies to be removed very quickly and with ease.

Helpful Suggestions & Precautions

Please Follow Closely to Avoid Loss of Warranty Coverage!

- ⚠️ Always disconnect power cord before performing any maintenance on the ultrasonic unit. Position the ultrasonic unit so that there is easy, unobstructed access to the power connection.
- Change your ultrasonics water or water/solution regularly and clean out the tank.
- Cover your tank with the supplied lid to avoid evaporation and reduce noise levels.
- Use any of the superior concentrated GemOro cleaning solutions mixed with water for optimal cleaning.
- ⚠️ Operate with the proper level of water/solution in tank.
- ⚠️ Never put your fingers into an active, running ultrasonic tank, as repeated exposure to ultrasonic sound waves may be harmful, as well as a heated ultrasonic may burn you!
- Be certain not to allow any item being cleaned to rest on the bottom of the tank.
- Be certain not to allow the water/solution in the tank to drop below two inches from the bottom.
- ⚠️ Be certain not to place flammable, acidic or ammoniated liquids in the tank, as they may ignite and/or cause damage to you or others. Further, it may cause damage to your ultrasonic which will void the warranty.
- ⚠️ Do not install plug into an ungrounded electrical outlet.
- Do not block the timer for continuous usage. Units without a timer should not be used for long periods without an occasional 10 second break, as damage may occur and void the warranty.
- Never operate the ultrasonic without water/solution in the tank.
- For any problems or questions, please consult your supplier or contact GemOro at 800.527.0719, 214.351.0380, service@gemoroproducts.com.

The Following List of Hazardous Chemicals
Can Attack the Stainless Steel Tank
of Your GemOro Powerful Ultrasonics Unit:

⚠ IMPORTANT! Do not use any of these hazardous chemicals in your ultrasonic or the warranty will be void! Please be advised that pin holes, rust, bluing of the metal and cracks appearing in this ultrasonic tank are caused by the use of hazardous chemicals such as acid, Drano, Mr. Clean, etc. Any ultrasonic tank returned for repair with these symptoms will not be repaired under warranty coverage.

Acetic Acid (70 + degrees F)	Freon
Acetol Chloride	Hydrobromic Acid
Acetol Bromide	Hydrochloric Acid
Aluminum Chloride	Hydrocyanic Acid
Aluminum Fluoride	Hydrofluoric Acid
Anhydrous Ammonia (70 + degrees F)	Hydrofluosilicic Acid
Aniline Hydrochloride	Iodine
Antimony	Ketones
Antimony Trichloride	Lactic Acid (70 + degrees F)
Benzene	Magnesium Chloride
Bromine	Mercuric Chloride
Calcium Hydroxide (50% + strength)	Methyl Alcohol
Carbon Disulphide	Muristic Acid
Carbon Tetrachloride	Oleic Acid
Chloroacetic Acid	Oxalic Acid (70 + degrees F)
Chloric Acid (70 + degrees F)	Phosphoric Acid (70 + degrees F)
Chlorinated Water	Silver Bromide
Chromic Acid (70 + degrees F)	Silver Chloride
Citric Acid (70 + degrees F)	Sodium Hypochloride (5% +)
Copper Chloride	Stannic Chloride
Ethers	Stannous Chloride
Ethyl Bromide	Sulphur Chloride
Ethyl Chloride	Sulphuric Acid
Ethylene Dichloride	Sulphur Monochloride
Ferric Chloride	Sulphurous Acid
Ferrous Chloride	Trichloroacetic Acid
Fluorine	Zinc Chloride (70 + degrees F)

PRELIMINARY GUIDELINE FOR GEMSTONE CLEANING

GEMSTONE	TOUGHNESS	ULTRASONIC
Alexandrite	excellent	usually
Amazonite	poor	never
Amber	poor	never
Amethyst	good	usually
Aquamarine	good	usually
Citrine	good	usually
Coral	fair	risky
Diamond	good	usually
Emerald	poor	never
Garnet	fair	usually
Lolite	fair	risky
Lapis Lazuli	fair	risky
Opal	fair	never
Pearl	good	never
Peridot	fair	risky
Ruby	excellent	usually
Sapphire	excellent	usually
Spinel	good	usually
Tanzanite	fair	never
Topaz	poor	never
Tourmaline	fair	risky
Turquoise	fair	never
Variscite	fair	never
Zircon	fair	risky

Unit Technical Specifications:

	Tank Capacity	Line Voltage	Line Frequency	Power Consumption	Fuse Required
Model 1.5PT NEXT-GEN	1.5 Pint (0.1875 Gal.)	110/120v	40 kHz	35w	1 Amp, 250v 5mm diameter (Φ), 20 mm long
<p><u>Overall Size:</u> 17.5cm x 11cm x 18.5cm <u>Tank Size:</u> 15cm x 8.5cm x 6.5cm Stainless steel lid, tweezers and basket included.</p>					

WARRANTY

2.5 /10 Year Limited Warranty

Important Notice - Premature Tank Erosion & Component Failure

Congratulations on your purchase of a GemOro Powerful Ultrasonics unit, the best, most powerful and efficient ultrasonic cleaner available. Your complete ultrasonic is warranted for a period of two and one half (2.5) years, while the ultrasonics transducer (s) is warranted for a period of ten (10) years from the date of purchase (as shown on the Warranty Registration Form and your Dealer Invoice) from defects in manufacturing and workmanship when used in accordance with the GemOro Powerful Ultrasonics Operating Procedure (with the exceptions as noted in this document*). In the event your ultrasonic fails to perform to its specifications, please contact your supplier or GemOro and make prompt arrangements for it to be returned for service. It is always wise to save your original shipping container for transporting your ultrasonic safely, but if it is not available, please be certain to properly pack to protect your ultrasonic during shipping. **If upon examination of the ultrasonic by the factory, the factory determines that the ultrasonic has been damaged due to misuse, this warranty is void.**

Please be aware that there are certain telltale signs of abuse, which will automatically void the warranty. Some user abuse signs are: Holes in the tank, bluing of the metal and specific odors associated with acid and ammonia exposure. Burn marks on the tank are signs that an inadequate amount of water has been used in the tank. Pitting or marks on the tank bottom are indications of items being placed on the tank bottom.

This warranty is limited to only the cost of any parts, materials, and labor required while repairing the unit. In the rare case of an "out-of-box failure," immediately contact your supplier or GemOro, as the unit may be returned for replacement.

In the event the owner has not registered their ultrasonic machine or provided a copy of their invoice for when they purchased their GemOro® Powerful Ultrasonic, warranty service will be determined by the serial number tracking system as interpreted by the factory. In the event the specific model of GemOro® Powerful Ultrasonic is no longer available or has been discontinued and warranty coverage is applicable, at the factory's sole discretion, an equivalent ultrasonic machine may be substituted in place of the defective/discontinued unit. The purchaser shall incur the cost for postage, insurance and handling for all warranty and non-warranty repairs. Warranty repairs and/or replacements will be shipped back to the customer FOB Destination to the location of the customer's choosing if within the continental United States. Non-warranty repairs and units coming from outside of the continental United States will be shipped back to the customer FOB Factory. Should the customer require the repair and/or replacement unit(s) to be shipped outside the continental United States, the customer will be required to pay any related shipping charges and any related taxes/duties for the respective destination country, regardless of whether it is a warranty or non-warranty claim.

All GemOro ultrasonic units are pre-tested to help insure your receipt of a top quality ultrasonic. Pre-testing requires filling the ultrasonic with water and turning the heater on (if applicable). This action may leave a slightly visible ring or stain where the water level reached or where any water has touched as well as a discoloration on the bottom of the tank from testing the heater. This ring may show up on your unit anytime your water level gets below its normal full level. This ring or stain in many instances may be cleaned with many regular household cleaners or WD40, but can never be completely removed.

Please be certain to fill out the **GemOro Powerful Ultrasonics Warranty Registration Form** online at www.gemoroproducts.com/warrantyregistration within 30 days of purchasing your ultrasonic to be eligible for warranty coverage. Without registering your ultrasonic as required, assuming the purchaser does not provide a copy of their invoice (bill of sale), it will automatically be warranted for a period not to exceed one year.

Note: If you have any questions concerning the operation of your ultrasonic, its warranty or would like to purchase a new ultrasonic, please contact your supplier or contact the factory at 214.351.0380 or 800.527.0719, FAX 214.351.1903 or 800.832.9871 or EMAIL support@gemoroproducts.com to locate an authorized GemOro Powerful Ultrasonics dealer near you. To view the complete line of GemOro Powerful Ultrasonics, please visit our website at www.gemoroproducts.com or contact us and on our dealers behalf request that we mail you a copy of our catalog.

RECOMMENDED CLEANING SOLUTIONS

GemOro Super Concentrated Cleaning Solution

To obtain the best general cleaning results out of your ultrasonic, we have the solution: GemOro Ultrasonic Cleaning Solution! Economical to use, it dilutes 40 to 1 for light cleaning, 20 to 1 for heavy cleaning. Our solution is recommended for removing dirt, grease, buffing compounds, rouge, tripoli and oxides. Also used for cleaning instruments, burs, metal parts, gold and fine jewelry. GemOro Super Concentrated Cleaning Solution is great for ultrasonics, glass and general cleaning. Non-ammoniated, no color additives, super concentrated, biodegradable, non-toxic and non-flammable. Instructions for use are imprinted on each bottle in both English and Spanish.



1-Quart Bottle

Each quart makes up to 40 quarts Item #0901

1-Gallon Bottle

Each gallon makes up to 40 gallons Item #0902

GemOro Sparkle Pak®

The GemOro Sparkle Pak is an innovative solution...for ultrasonic cleaning solution! All you do is fill your ultrasonic tank with water, then take a convenient Sparkle Pak and empty the contents in the water. No measuring. No mixing. No mess. No waste.

The Sparkle Pak is an amazing, professional strength, specially formulated jewelry cleaning solution. Each Sparkle Pak contains the precise amount of our concentrated formula that when added to a full tank of water produces the best jewelry cleaning solution that will make your jewels sparkle like new!

Recommended for removing dirt, grease, buffing compounds, rouge, Tripoli and oxides from jewelry and more! Non-ammoniated, non-toxic and non-flammable.

Sparkle Pak For 1 to 1.5 Pint Ultrasonic or Sonic Cleaner PK/24 Item #0915

Sparkle Pak For 2 Quart Ultrasonic PK/24 Item #0920

Sparkle Pak For 3 Quart Ultrasonic PK/24 Item #0930



All GemOro cleaning solutions are super concentrated, biodegradable, non-toxic and non-flammable.

12" Plastic Coated Stainless Steel Tweezers

Our extra-long 12" plastic coated stainless steel tweezers are a practical tool for holding jewelry in an ultrasonic tank or under a steamer for short periods of time without burning your fingers. The plastic coating also provides insulation protection to keep the jewelry from being scratched by the tweezers. Item #4703



Diamond Saver Basket

Our special handheld stainless steel basket with spring-loaded, heat resistant, insulated handle is the ideal tool for use with ultrasonics and steamers for holding rings, ear studs, charms, small items and more without the fear of dropping the item or losing a stone from its setting! Item #5702



GemOro UltraSpa™ ULTIMATE JEWELRY CLEANING SYSTEM PERSONAL COMBINATION ULTRASONIC AND STEAM CLEANER

- Perfect size approximate 1-pint tank capacity ultrasonic cleaner and approximate 1-pint tank capacity steam cleaner
 - Includes: Ultrasonic basket, transparent cover, steam residue mat, measuring fill cup, jewelry holding tweezers, and steamer basket that stores in a rear compartment
 - Designed in the USA for safety – ETL Listed
 - 1 Year limited replacement warranty
- Item #0377



Gemoro BrilliantSpa® BLACK DIAMOND DELUXE PERSONAL JEWELRY STEAM CLEANER

- Professionally cleans diamonds, gold, silver and platinum jewelry
 - Perfect size approximate 1-pint tank capacity steam cleaner
 - Includes jewelry holding tweezers, basket, steam residue mat and water funnel with measuring fill cup
 - Built for safety – ETL Listed
 - 2 Year limited replacement warranty
- Slate Item #0375 Black Item #0362



GemOro SparkleSpa Pro® DELUXE PERSONAL ULTRASONIC JEWELRY CLEANER

- True professional grade ultrasonic jewelry cleaner for the home
- Approximate 25oz (750ml) tank capacity
- Powerful 42,000Hz energy producing sound waves per second
- Digital timer / Auto shut-off function - 5 Cleaning cycles 90, 180, 280, 380 and 480 seconds
- Removable basket and bracelet / watch holder included
- 1 Year limited replacement warranty

Slate Item #1791 Black Item #1790



GemOro SparkleSpa® PERSONAL ULTRASONIC JEWELRY CLEANER

- No scrubbing or polishing required - cleans in only minutes
- NEW 3 Programmable cleaning cycles - 3, 5 and 10 minutes
- NEW Designer white pearl finish
- NEW Includes a removable basket and bracelet / watch holder
- 1 Year limited replacement warranty

Item #1783



GemOro Sparkle Pak Plus® ULTIMATE JEWELRY CLEANER IN PRE-MEASURED PACKETS

- Consumer home-use formula.
- Instantly cleans platinum, gold, silver, metal watch bands, base metal, diamonds, gemstones, fine jewelry, fashion and costume jewelry and more.
- Includes 10 packets of super-concentrated jewelry cleaner. Combined with water, makes almost 2 gallons of solution for you to use and reuse in a variety of applications!

Box of 10 Item #0937



2.6 Quart Heated Ultrasonic Cleaner with Digital Timer

- Advanced Digital Control System (ADCS)
- Digital control heater and timer
- Stainless steel 2.6 quart size tank
- Dura-last transducers
- Removable full size stainless steel basket
- Evaporation resistant tight-close cover
- 1 Year limited replacement warranty

Item #1787



1.2-Quart Ultrasonic Cleaner

- Advanced Digital Control System (ADCS)
- Digital control timer
- Stainless steel 1.2-Quart sized tank
- High performance transducers
- Removable full size basket
- Evaporation resistant tight-close cover
- 1 Year limited replacement warranty

Item #1785



GEMORO®

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