

**BPI 20/20
Ultrasonic
Cleaner™**

For use only by qualified personnel in a laboratory environment.

Due to high operating temperature, access should be restricted.

CAUTION

DO NOT IMMERSE UNIT. DO NOT ALLOW ANY LIQUID INTO INTERIOR OF UNIT. This can void your warranty.

About Your BPI Cleaner

The BPI 20/20™ Ultrasonic Cleaner (BPI# 17902 - 115v. BPI#217902 - 220v.) has dual axis cleaning and power pulses which provide random-sized bubbles. It will give best results for general cleaning when used with BPI Ultrasonic "C"™ which has special chemical abilities that sequester ionic residue and may be used in most all cleaning applications.

DO NOT USE ULTRASONIC 'C'™ FOR CONTACT LENS CLEANING. SEE SEPARATE SECTION.

For optimum cleaning, it is most important to fill the tank to the correct level to ensure proper frequency resonance. An optional immersion tray is available for general parts cleaning. Do NOT allow any personal contact with ultrasonic energy.

Specifications

Your 20/20™ Cleaner has a non-removable stainless steel tank contained in a stainless steel chassis. The Cleaner requires 115 volts, 60 Hz unless otherwise ordered. (Cleaners are also available by special order in 220 volt models.)

HEIGHT	WIDTH	LENGTH	VOLTAGE	WEIGHT	FUSE	AMPERAGE
6 in.	7.5 in.	4.5 in.	115 v. or 220 v.	5 lbs	1 ½ amp	1 amp
152 mm	191 mm	114 mm		2.26 kg		
TANK DEPTH	TANK WIDTH	TANK LENGTH	TANK CAPACITY	PEAK POWER	SET-UP KIT	
4 in.	6 in.	3.5 in.	1 Quart	80 watts	1 Lid 1 Instruction manual	
102 mm	152 mm	89 mm	946 ml			

Unpacking

When unpacking your ultrasonic cleaner, please check to ensure that no concealed damage occurred in transit. If such is noted, save the shipping carton and immediately notify the shipping company's damage control inspector in your area so a claim may be processed. Failure to do this may void any future claim and replacement. Also, call BPI Customer Service so arrangements for a replacement may be made.

Notes

- NEVER turn the ultrasonic on when tank is empty as PERMANENT DAMAGE may result. The tank should be at least ¾ full of water or diluted Ultrasonic "C" solution when the instrument is on.
- Always UNPLUG unit from power source before filling tank.
- DO NOT immerse hands in cleaning solution while unit is in operation.
- NEVER remove ground prong from power plug as it ensures safe electrical operation.
- Ultrasonic energy generates heat in the solution. You should periodically check the item(s) being cleaned to avoid unnecessary thermal exposure. Use caution when immersing hand.

General Cleaning

- Fill tank with tap water approximately 1" from the top; wipe excess water from the cabinet and work area and plug in the power cord.
- Add BPI Ultrasonic "C" cleaning concentrate to water in tank.
- Place items to be cleaned in tank.
- Turn on power switches depending on power desired.
- For most cleaning operations, 1-3 minutes is sufficient; more difficult jobs will require proportionately longer times. You will notice that the Cleaner will not harm the thinnest gold platings.
- When the cleaning is completed (timer off), remove cleaned items promptly.
- If cleaning jewelry, do NOT place pearls or opals in the Cleaner. While other gems may be cleaned in the Cleaner, BPI assumes no liability for these items.

Soft Contact Lenses

The cleaning of a soft contact lens is a difficult process even with the best of chemicals. The BPI Cleaner will remove most mucoprotein deposits by fracturing them into microscopic particles, breaking their structure so they can no longer attach themselves to the lens matrix. The BPI Cleaner changes the frequency of oscillation and phase angle of the wave fronts in a continuous manner that produces random-sized bubbles that fracture the protein and mucous matrix. The yellow color in the soft lens due to thermal modification of the material is a physical part of the lens and cannot be removed.

Cleaning Soft Contact Lenses

- Place each soft lens into a separate vial (included with optional C.L. Rack); mark them with 'left' and 'right'. DO NOT use the nylon mesh insert with soft contact lenses.
- Place the lens manufacturer's suggested cleaning or storage solution in bottle, covering the lens by ½" of fluid. Screw lid on tightly; place bottle in special rack.
- Check the main tank for proper solution level. Turn ON power switch and leave on for 15-20 minutes.
- When lenses have finished cleaning cycle, turn bottle upside-down and shake solution and lens to the cap; loosen cap and let excess fluid run out around bottle and lid so lens may be easily removed.
- Follow lens manufacturer's suggested sterilization process before placement into patient's eyes.

Cleaning Hard Contact Lenses

- USE the nylon mesh inserts with hard contact lenses. This insert is furnished to prevent the formation of a vacuum which causes the hard lens to adhere to the bottom of the bottle, making removal of the lens extremely difficult.
- Place each hard lens into a separate vial (included with optional C.L. Rack); mark them with 'left' and 'right'. Add just enough water to cover them; then add 15 drops of C.L. Polish to the bottle. Screw lid on tightly; place bottle in special rack.
- Check the main tank for proper solution level. Turn ON power switch and leave on for 15-20 minutes.
- Remove lenses from bottles; wash thoroughly with water to remove polishing compound.
- Follow lens manufacturer's suggested process to remove any C.L. Polish that may be remaining before placement into patient's eyes.

C.L. Polish

BPI C.L. Polish (for HARD CONTACT LENSES ONLY) is a combination of selected polishing particles which have uniform shape, size, and hardness. These particles have been suspended in a manner to give maximum heat dispersion and transfer while providing a maximum number of polishing particles at the lens surface at any given time.

Caution to be observed when using BPI C.L. Polish: IF FLUID COMES INTO CONTACT WITH EYES, WASH IMMEDIATELY WITH WATER. IF IRRITATION PERSISTS, CONTACT PHYSICIAN.

Questions?..

If you have any questions about the use of your Ultrasonic Cleaner or need technical product information, call the BPI Research Department. For information about any other BPI product and to order supplies, please give us a toll-free call at the number for your area.



Also available for the BPI 20/20 Ultrasonic Cleaner™

IMMERSION TRAY	
BPI# 366500	Immersion tray
LID	
BPI# 62700	Thermal lid