

DIGITAL ULTRASONIC CLEANERS



Instruction Manual



Please read this manual carefully before using the instrument

Labnics Equipment

• Table of Content •

CHAPTER	CONTENTS	PAGE NO.
1	Introduction	1
2	Technical Parameters	1
3	Cleaning Applications	2
4	Operation Instructions	3
5	Service Report	4

Note: When power is kept “ON” for 60 second and no further operation command is given then unit will enter into the sleeping mode, all display will get off. To re-start, just press ON.

Caution:

1. Do not operate if the tank is empty. After use, switch off the unit and disconnect the power.
2. Avoid using corrosive or inflammable solutions as washing fluids to prevent from danger.
3. While adding or changing the washing fluid, power must be disconnected.
4. If jewellery is made up by glue or adhesive tape, destruction will be caused.
5. Use original parts, accessories and usage scopes designed by the manufacturer, do not use non-recommended parts.
6. If cleaner is not functioning properly or power cord is damaged, do not disassemble the cleaner. It must be returned to manufacturer or authorized agent for checking and repair.

CHAPTER 1. INTRODUCTION:-

Ultrasonic cleaner is based on Cavitation effect caused by the vibration signal of high frequency ultrasonic waves in fluid. Microscopic bubbles are formed and they implode violently that causes Cavitation, which gives out great impact on the cleaning subject and provides an intense scrubbing action on the surface of cleaning subject. Additionally, the bubbles are small enough to penetrate even microscopic crevices, cleaning them thoroughly and consistently.

CHAPTER 2. TECHNICAL PARAMETERS:-

Model No.	LU 1	LU 2	LU 3	LU 4
Material	Stainless steel including cover			
Power Supply	110 or 220V, 50/60 Hz			
Power	50 Watt Ultrasonic + 100 Watt Heating	80 Watt Ultrasonic + 100 Watt Heating	50 Watt Ultrasonic + Heating	100 Watt Ultrasonic + 200 Watt Heating
Number of Transducer/ Transducer Frequency (KHz)	1 / 40	1 / 28	1 x 40	2 x 40
Tank Size (L)	0.7	2	2	4.5
Tank Dimension (L x D x H) mm	176 x 109 x 65	176 x 164 x 100		327 x 176 x 100
Unit Dimension (L x D x H) mm	176 x 111 x 170	176 x 185 x 212		176 x 190 x 240
Unit Weight (kg)	1.9	2.3		4.5
Timer (min)	0 - 30			
Heating Temp. (°C)	Max. 70			
Catalog No.	37950101	37950102	37950103	37950104

Model No.	LU 5	LU 6	LU 7
Material	Stainless steel including cover and drain		
Power Supply	110 or 220V, 50/60 Hz		
Power	200 Watt Ultrasonic + 100 Watt Heating	500 Watt Ultrasonic + Heating Function	300 Watt Ultrasonic + Heating Function
Number of Transducer/ Transducer Frequency (KHz)	4 x 40	10 x 40	6 x 40
Tank Size (L)	6	20	10
Tank Dimension (L x D x H) mm	327 x 176 x 150	353 x 327 x 150	327 x 265 x 150
Unit Dimension (L x D x H) mm	176 x 190 x 280	430 x 340 x 430	390 x 290 x 320
Unit Weight (kg)	5.5	13.5	8.5
Timer (min)	0 - 30		
Heating Temp. (°C)	Max. 70		
Catalog No.	37950105	37950106	37950107

CHAPTER 3. CLEANING APPLICATIONS:-

- Air brushes, spray guns
- Archival papers
- Automatic & Aviation
- Components
- Calligraphic pens
- Computer plotter pens
- Dental and Surgical Instruments
- Dentist Burrs
- Dentures
- Films
- Fuel Injectors

- Geological & Metallurgical Specimens
- Homogenization
- Hypodermic Needles
- Ink jet cartridge
- Jewellery
- Laboratory glassware and apparatus
- Laparoscopes
- Lenses, other optical components
- Metal/Fibre filters
- Metal/Rubber seals
- Microelectronic circuits & small components
- Moulding die
- Nozzles & Sieves
- Printed circuit boards
- Production line cleaning
- Scientific & industrial instruments
- Spectacle frames
- Transparencies
- Watches & clockwork.

CHAPTER 4. OPERATION INSTRUCTIONS:-

1. Before starting the equipment, check specification table present at the back of unit to know the correct requirements. Keep unit on a stable and flat working platform.
2. According to the size and quantity of washing objects, add the fluid so that they get immersed completely. Add little bit detergent which can help in the cleaning effect.

Note:-

1. Washing fluid is better with $\frac{1}{2}$ to $\frac{2}{3}$ of nominated tank volume.
2. For repeated use, take rest for a while and make sure that the temperature of the fluid should not be higher than 50°C before restarting.

3. Connect power and switch it on for cleaning.

- Non-heated models with only timer selection **180's** and **360's**, process is as follow:
When the display window shows “000” it means that cleaner is standby. Press “**ON-180S**” or “**ON-360S**” to begin ultrasonic cleaning. Timer will count down to zero and stops automatically, resume standby.
- For non-heating digital timer models, process is as follow:
When the display window shows “00”. Cleaner is standby. By Pressing (↑) button once, it will increase 5 min and by pressing (↓) button once, will decrease 5min to set the desired cleaning time. Then press “**ON**” to start ultrasonic function immediately. (Maximum time setting is different for different models). “**OFF**” button can be pressed to stop the cleaning any time. Timer will count down to zero, which will stop cleaning automatically. It is not recommended for prolong continuous operation.
- When using full set digital control (Digital display of minute, digital display of second, temperature setting, actual temperature display) to operate as follows:
 - a) **Timer setting:** When power is connected, if timer will display “00”. Press (↑) once, will increase time by 5 min; press (↓) again, will decrease time by 5min to select the desired time, and then auto-start the ultrasonic function immediately.
The digital display of second and minute starts to count down till “00” to stop and the unit is in standby position. When ultrasonic is working, as per the requirement timer can be adjusted by increasing or decreasing the value.
 - b) **Heating and Temperature Control:** When power is connected, the actual temperature display shows the actual temperature of the water. The temperature setting will display at “00” position. Press (↑) once, will increase temperature by 5°C to select the desired temperature. (Different models have different maximum limit for temperature setting). During heating, change in temperature setting can be done any time. When heating is in process, heat indicating light (red) is on. If the actual water temperature is same as the set temperature, heating process will stops automatically. Red light goes off. But if actual water temperature is lower than the set temperature, heating process will continue. Red light will be on.

SERVICE REPORT

Customer's Address : _____ _____	Tel.No.: _____ Fax No.: _____ Weekly Off.: _____
Contact Person / Designation : _____	Dept.: _____

Date	Time		System Configuration	Model	Serial No.	Date :	SR. No.
	From	To				Status : OK <input type="checkbox"/>	Not OK <input type="checkbox"/>
						Installation <input type="checkbox"/>	Warranty <input type="checkbox"/>
						Demonstration <input type="checkbox"/>	
						Maintenance <input type="checkbox"/>	Contract <input type="checkbox"/>
						Repairs <input type="checkbox"/>	
						Application <input type="checkbox"/>	Billable <input type="checkbox"/>
						Calibration <input type="checkbox"/>	
						Validation <input type="checkbox"/>	Courtesy <input type="checkbox"/>

Nature of Problem : _____

Observation & Action Taken : _____

Customer's Remarks : _____

Parts Replaced : _____

Parts Recommended / Action Required : Yes <input type="checkbox"/> No <input type="checkbox"/>		Requisition Number :
Service Engineer's Name & Signature	Customer's Name, Signature, Date & Stamp	



Labnics Equipment
43040 Christy St., Fremont, CA 94538 USA.
Toll Free : (877) 620 9992
Tel. : (925) 271 4322
Fax : (925) 886 0400
Email : info@labnics.com
Website : www.labnics.com