Most effective "FAST - CLEAN"





SEVEN KEY CONTROL PANEL

FIVE KEY CONTROL PANEL

CONTROL PANEL

Micro controller based soft touch control panel for easy operation

Digital display: 99 minutes Timer, Temperature set / actual.

Indications: Heater on/off, Ultrasonic on/off, Pulse sweep power on/off, Degass on/off.

Preset auto degassing for removal of dissolved gases for powerful sonication. Unique pulse sweep power mode for uniform sonication to entire volume eliminating standing waves generation. Power Switch and Heater Switch

APPLICATIONS OF ULTRASONIC CLEANERS

Ultrasonic cleaners are used in the automotive, sporting, printing, marine, medical, pharmaceutical, engineering and weapons industries.

Ultrasonic Cleaners in Scientific Labs

Lab Glassware, Test Tubes, Pipettes, Optical & Contact Lenses, Eveglass Frames, Scientific Instruments, Components,

Ultrasonic Cleaners in Industrial Manufacturing

Switches, Relays & Motors, Gears, Precision Bearings, Metal & Plastic Parts, Assemblies, Machined Parts, Electroplating

Ultrasonic Cleaners in Electronic Manufacturing

PC Boards, SMDs, Ceramic Substrates, Capacitors, Lapping Heads, Packaging Components, Quartz Crystals, High-resolution Glass Plates.

Ultrasonic Cleaners in Medical & Dental Labs

Cannulae, Syringe Parts, Surgical Instruments, Blood Oxygenators, Dental Instruments, Burs, Dentures, Caps,

Ultrasonic Cleaners in Jewelry Manufacturing

Watches, Clock Movements, Precious Metals & Gemstones, Intricate Settings, Chains, Charms, Coins, Watch Straps, Glasses and Sunglasses, CD's & DVD's.

"You can really see the difference !!!"

Ultrasonic Processor



FEATURES:

Microprocessor Based - Programmable Real Time Display Independent On/Off Pulser Integrated Temperature Controller Variable Power Output Control **Automatic Tuning and Frequency Control** Consistent Reproducibility

MODELS	LC - 250 P	LC - 500 P	LC - 750 P
Power	250 W	500 W	750 W
Titanium Probe with tip	3 mm (1/8")	9.5 mm (3/8")	13 mm (1/2")
Sound Reduction Enclosure provided	Yes	Yes	Yes
Integrated Temperature controller	Yes	Yes	Yes
Timer	Yes	Yes	Yes
Sample Volumes	0.150 ml to 275 ml	0.250 ml to 450 ml	0.350 ml to 600 ml



Life-Care Equipments Pvt. Ltd.

Some of our esteemed Clients :



Alembic





























Specifications are subject to change without notice due to continuous upgradation process.

HIGH PERFORMANCE ULTRASONIC TECHNOLOGY

"FAST - CLEAN" by Enertech





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"ULTRASONIC CLEANING SYSTEMS"

ABOUT ULTRASONIC CLEANING

Ultrasonic cleaning depends upon cavitation: the rapid formation and violent collapse of minute bubbles or cavities in a cleaning liquid. This activity creates a highly effective and unique penetrating action that blasts dirt from wherever it hides. Nothing cleans faster, safer or more thoroughly.

Enertechs "Fast clean" Ultrasoric technology introduces sound in a unique way to produce Broad Spectrum Cleaning, the enhancement of higher power multiple frequencies in a cleaning bath. This results in improved and more precise cleaning that is also environmentally size. Broad Spectrum Cleaning removes contaminants that defy soaking, scrubbing, spraying and other conventional



SALIENT FEATURES

- Indigenously manufactured with advance MOSFET technology
- ➤ Widest frequency range of 18 KHz. To 68 KHz.
- Digital tuning of Transducers to avoid any freq. shifting.
 Compact, rugged and highly durable systems.
- ► Efficiency of 90% permits maximum cleaning action, low power consumption.
 - ► @ 50% of the weight & size of conventional machines.
- Extensively protected electronic circuits means longer and safer operations
- Automatic frequency tuning for maximum output.
- Input range of 170VAC 270VAC, highest immunity to input supply variations
 - Digital 99 min pre-settable timer.
 - Pre-Set Auto Degassing function.
- Fifticient Sales & Service backup, Competitive rates, One year Warranty.
 - Pulse Sweep Power for better effective cleaning.
 - Non-Standard models for specific requirements.





STANDARD RANGE - Fabricated Tank

STANDARD RANGE - Fabricated Talik						
Model No.	Tank Size	Tank Cap.	U/s. Power	U/s. Freq.		
EN 15 US	7" x 4" x 3" (H)	1.3 ltrs.	50 Watts	33 ± 3 Khz		
EN 20 US			60 Watts			
EN 30 US	9" x 6" x 4" (H)	3.3 ltrs.	100 Watts	33 ± 3 Khz		
EN 60 US	12" x 6" x 6" (H)	6.5 ltrs.	150 Watts	33 ± 3 Khz		
EN 200 US	14" x 12" x 8" (H)	20 ltrs.	400 Watts	33 ± 3 Khz		
EN 200 (L) US	24" x 9" x 6" (H)	20 ltrs.	400 Watts			
EN 250 US	16" x 16" x 6" (H)	25 ltrs.	500 Watts	33 ± 3 Khz		
EN 300 US			500 Watts			
EN 500 US	20" x 12" x 12"(H)	47 ltrs.	600 Watts	33 + 3 Khz		

OPTIONAL FEATURES

- ► Digital Temperature Controller with set / actual value.
- ► Low Noise Ultrasonic Baths below 70 db with certificate from Government Approved Agency. This unique feature allows the user to use this machine in a closed environment (A.C) without being disturbed. Thus these machines are more user friendly.
- Multifire: For the first time in India "Fast Clean" has introduced a Multiple Frequency Ultrasonic Cleaner for the toughest, figorous and hi-tech parts of industries. Multifire uses transducer opperating at multiple frequencies simultaneously. This process eliminates Dead Spots completely and gives you the best impact and penetrative cleaning effect. (NO DEAD ZONES).
- High temperature Bath up to 90° C for much tougher contaminant cleaning.
- Ultra High Frequency Cleaners from 128 KHz up to 2 MHz for demanding applications.
- Power Controller: Stepless 10% to 100% power controller which would allow the user to select the power level as per the type of component to be cleaned.
- Controlled temperature Bath with water jacket for precise process requirements.



STANDARD RANGE - Moulded Tank

l/s. Power U/s. Freq.	
50 Watts 40 ± 3 Khz	
60 Watts 40 ± 3 Khz	
80 Watts 40 ± 3 Khz	
100 Watts 40 ± 3 Khz	
150 Watts 40 ± 3 Khz	
250 Watts 40 ± 3 Khz	
100 Watts 40 ± 3 Khz	
	60 Watts 40 ± 3 Khz 80 Watts 40 ± 3 Khz 100 Watts 40 ± 3 Khz 150 Watts 40 ± 3 Khz 250 Watts 40 ± 3 Khz

PRECISION METAL CLEANING SYSTEM

Enertech's "Fast Clean" metal cleaning system is a unique precision cleaning system designed to clean a wide assortment of metal components with aqueous-based chemistries. It offers the convenience of being able to handle a variety of alkaline and mildly actic water based chemistries which are typically encountered in the metalvorking industry. It has been designed for removal of oils, greases, metalvorking fluids, abrasive polishing compound, and particulate contamination, such as metal fines and shoop soils.

"Fast Clean" liquid metal cleaners are specially formulated for effective soil removal. They have high soil loading capacity and are free rinsing, which means no white films, residues, or spots are left behind on your components. Our application engineers will help select and, if necessary perform lab tests to establish the most effective cleaner for your

and, if necessary perform lab tests to establish the most effective cleaner for your application.

The precision metal cleaning system is a three / four stage, fully-configured, ultrasonic cleaning, rinsing, and drying system.



IMMERSIBLE ULTRASONIC TRANSDUCERS

ENERTECH'S "FAST CLEAN" immersible ultrasonic transducers can be placed wherever you need then in your existing cleaning tanks. These units give you complete freedom to design specialized cleaning setups or to upgrade pre-soak tanks with ultrasonic.

Each immersible transducer is fabricated from 304 / 316 stainless steels with welded seams and stainless steel fittings. These hermetically sealed modular components are available in standard sizes, other sizes can be custom built for special applications.



Immersible Transducers

MULTI STAGE CLEANING SYSTEMS

CLEANING: Precision cleaning is accomplished in the first tank. This tank is equipped with either 40 KHz or 25 KHz industrials Ultrasonic, and incorporates thermostatically controlled heat.

RINSING: The rinse position includes industrial ultrasonic components as standard to assure that all soils and cleaning chemistry are driven from blind holes and crevices before the dry cycle.

DRYING: The forced hot air drying station utilizes evaporation, one of the most common drying techniques to remove water. Room air is heated to above 85° C, which nables it to abord moisture from the parts.



Multi Stage Ultrasonic System