

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. The activity creates a highly effective and unique penetrating action that blasts dirt from wherever it hides. Nothing cleans faster, safer or more thoroughly.

UI Ultrasonic 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 safe. Broad Spectrum Cleaning removes contaminants that defy soaking, scrubbing, spraying and other conventional cleaning methods

Salient Features

- Indigenously manufactured with advance MOSFET Technology
- Digital tuning of Transducers to avoid any freq.shifting
- Efficiency of 90% permits maximum cleaning action, low power consumption.
- Extensively protected electronic circuits means longer and safer operations
- Input range of 170VAC -270VAC, highest immunity to input supply variants
- Pre-Set Auto Degassing function
- Pulse sweep power for better effective cleaning
- Non-Standard models for specific requirements
- Wildest frequency ranges of 18KHz to 68KHz
- Compact, rugged and highly durable systems.
- @50% of the weight & size of conventional machines
- Automatic frequency tuning for maximum output
- Digital 99min pre-settable timer
- Efficient Sales & Services back up, competitive rates, one year warranty

Tank Capacity	Model No	Tank Size (Moulded Tanks)	Ultrasonic power	U/s.Freq
1 Ltrs	MT - 1	150 x 135 x 65 mm (H)	50 watts	33 ± 3Khz
2 Ltrs	MT - 2	176 x 162 x 100 mm (H)	60 watts	33 ± 3Khz
3 Ltrs	MT - 3	240 x 135 x 100 mm (H)	80 watts	33 ± 3Khz
4.5 Ltrs	MT - 4	300 x 150 x 100 mm (H)	100 watts	33 ± 3Khz
6.5 Ltrs	MT - 6	300 x 150 x 150 mm (H)	150 watts	33 ± 3Khz
10 Ltrs	MT - 10	300 x 238 x 150 mm (H)	250 watts	33 ± 3Khz
14 Ltrs	MT - 14	300 x 238 x 200 mm (H)	300 watts	33 ± 3Khz
20 Ltrs	MT- 20	500 x 300 x 150 mm (H)	400 watts	33 ± 3Khz
30 Ltrs	MT - 30	500 x 300 x 200 mm (H)	500 watts	33 ± 3Khz



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, rigorous and hi-tech parts of industries . Multifire uses transducers operating at multiple frequencies simultaneously. This process eliminates Dead spots completely and gives you the best impact and penetrative cleaning effect (NO DEAD ZONES)
- **Ultra High Frequency Cleaners** from 128 KHz up to 2MHz for demanding applications.
- **High Temperature Bath** up to 90 C for much tougher contaminant cleaning.
- **Power Controller**: Step less 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

PRECISION METAL CLEANING

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

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

MULTI STAGE CLEANING SYSTEMS

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

RINSING: The rinse position includes industrial ultrasonic component 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 enables it to absorb moisture from the parts.