

MEDICAL ULTRASONIC CLEANERS

Precision.....

Speed.....

Consistency.....



Cleans in just 2 minutes



# MIRACLE MEDICAL ULTRASONIC CLEANERS

## MIRACLE - Medical - ULTRASONIC CLEANERS :-

### Company History & Culture:-

Miracle has always strived hard to give diversified products to this ever changing Electronic market. Miracle was established in the year 1994. Today it has positioned itself as a leading manufacturer of electronic components, Security systems & medical instruments. Company has successfully built an International reputation for reliability and service.

A three-point strategy has been implemented to exceed the expectations of a changing electronic market.

- The first, to set superior standards in customer service.
- The second, to improve efficiency in manufacturing through advanced processes & technology.
- The third, continuous development of market leads products.

### Total Quality:-

Through MIRACLE operation a commitment to continuous improvement is present with a significant emphasis placed to waste prevention to eliminate defective product. From initial contact effective business relationship is established and developed to guarantee Total Quality

### Ultrasonic Principle:-

Miracle introduces new Generation Ultrasonic cleaners, which has wide application in all types of fields. Ultrasonic cleaner's works very efficiently & fast where it is impossible with scrubbing, Soaking and even cleaning with high pressure sprays. Normal 50 Hz frequency is been converted to very high frequency 40 KHz using Electronic Acoustic Transducer. This transducer creates sinusoidal waves, which



in turn cause Cavitations-the formation of violent collapse of minute vacuum bubbles in the solution. This implosion thoroughly scrubs every surface with which the solution makes contact. This process is not harmful even on delicate parts of the material.

Ultrasonic cleans any Rust, Grease, Dirts, Wax, Salts, Blood, loose burrs, Flux, OR any other contaminations.

### Ultrasonic Over other methods of Cleaning:-

Spraying :- 14 %  
 Immersion :- 30 %  
 Steaming :- 35 %  
 Brushing :- 72 %  
 # Ultrasonic :- 99 %

### Why an Ultrasonic System ?

#### Precision :-

Because ultrasonic energy penetrates into crevices and cavities, any type of part or assembly can be cleaned. In many cases ultrasonic cleaning is the only way to meet specifications as in the cleaning of precision part or assemblies.

#### Speed:-

Ultrasonic cleaning is faster than any conventional cleaning method in the removal of soil and contamination from parts. Entire assembly can be cleaned Without disassembly. Often, its labor saving advantages make ultrasonic the most economical way of cleaning.

#### Consistency:-

Unlike manual cleaning, ultrasonics offers unmatched cleaning consistency, whether pieces to be cleaned are large or small, simple or complex, handled singly, in batches or in an automated line.



### Application:-

#### • Medical :-

All instruments used in surgical operation as well as in general check-up have to be cleaned 100 %. This can be achieved only by using Ultrasonic cleaning methods. Surgical and Dental Instruments used for Endoscopy, Gynaecology, Urology, Pathology, Dental check-up, Instruments used are mainly, Dental mouth mirror, Cuvettes, Prostheses, Hearing Aids, tools, syringes, Breathing apparatus, masks, test tubes, pippets, sieves any any other types of instruments. All surgical Instruments with Blood without touching them can be placed into the cleaning tank directly. Instruments like Endoscopes, any shapes any size can be accommodated in it without dismantling them, you will get them absolutely cleaned with in few minutes.



### Significant Features :-

- Latest International Technology
- Compact size
- Steel body / Fiber
- Easy maintenance
- Inbuilt Power Supply
- Timer Control with Sound & LED indication.

### Other Technical Data:-

- Operating Frequency :- 40 KHz
- Working Voltage :- 1 Ph, 200 to 260 V
- Outer Body :- Stainless Steel / Fiber
- Heater :- Optional 60°C

Precision.....Speed.....Consistency .....



Model No	Mainly Used for	Steel Tank Size in mm			Capacity
		W	B	D	
M001	Dental, Ophthalmology	260	160	63	1.8 LTR
M002	Ophthalmology, OPD	330	160	63	2.6 LTR
M003	Laboratory, Gynecology, OPD	330	260	100	6.0 LTR
M004	OT, LAB, Medium Laproscopic	530	330	100	14.0 LTR
M005	OT, Large Scale Laproscopic	530	330	150	20.0 LTR
M006	<b>Special</b> Laproscopic, Gynecology	530	160	100	6.0 LTR

OUR POLICY AT MIRACLE is one of continuous improvement and innovation. We reserve the right to change any or all of the technical specification within this catalogue without prior notice.

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