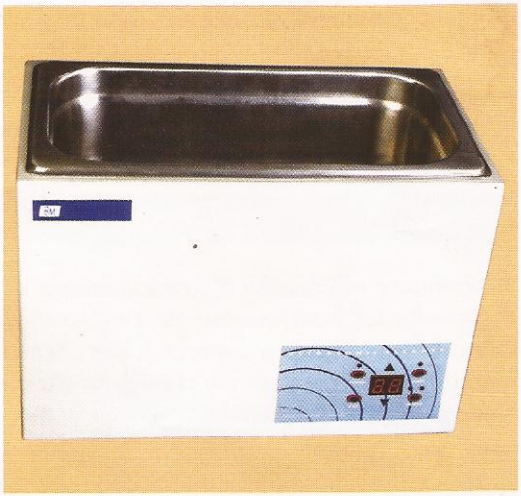
ADHISTHI TECHNOLOGY

Medical, Laboratories and Industrial Equipments

Ultrasonic cleaning system

High intensity cleaning action is obtained by applying high-frequency electrical energy from a MOSFT base generator to a piezoelectrical material of sandwich-type construction to cause the module to vibrate. This module, the transducer transforms electrical energy in to mechanical vibratory energy and when attached to the base of a suitable designed cleaning bath, will cause the base to vibrate and thus impart high-frequency sound waves to the cleaning fluid. This causes cavitations in the fluid which produces an intense but controllable scrubbing action and results in extremely high standards of cleanliness in a fraction of the time required to achieve the same result by other methods. This degree of cleanliness is achieved without any abrasion or wear of component material and without any risk of damage or displacement of precision assemblies.



Features of transducer

- Very low acoustical noise emission.
- High efficiency.
- All units are frequency tested.
- Low heat and stability.
- Operating frequency 25, 28, 40, 80, or 120 KHz.
- Piezoceramic, equivalent or superior to PZT-4 or PZT-8 type.

Features of generator

- High reliability.
- Frequency sweeping.
- Modular design: maintenance friendly.
- High output power.
- Short circuit protection.
- Internal cooling fan.

Specifications

Frequency	:	40 ± 3% KHz.
Timer	:	0-30 minute (Digital Timer).
Tank material	:	S.S. 304 Grade.
Heater	:	60 Deg. Centigrade.
Source	:	AC 200-240 volt / 50 Hz.
Accessory	:	Basket, Cover, Drain vale.

Manufacture, designing, servicing of

- Medical and Industrial ultrasonic cleaning systems.
- Automatic material handling systems.
- Ultrasonic processor (sonicator).
- Vapor degreasers.
- Ultrasonic immersible transducers.
- Tube resonators.
- Water bath.

Advance Cleaning Technology

Healthcare Ultrasonic Cleaning Application

Ultrasonic cleaning is the most effective method of pre-sterilization cleaning difficult to reach and hic surface, such as hinges, screw threads, serrated edges, surgical forceps, rigid scopes and dental scrapers ar intricate items which can be difficult to clean thoroughly, but the ultrasonic cleaning has the power to gentl off any contaminants within a very short time scale.

- Hospital CSSD's
- Chiropodist
- Opticians
- Nursing homes, etc.
- General practitioners
- Dentists
- Acupuncture

Laboratory Ultrasonic cleaning Applications

A laboratory will require a cleaning system to ensure that the items are completely clean before each Any residue left from previous use could provide incorrect test results costing valuable time and resources. Laboratories also use a number of delicate items such as a glass beakers, test tubes, pipets, and microscope sl Ultrasonic cleaning is gently enough to clean these items without causing damage but powerful enoug remove all traces of contamination.

Industrial Ultrasonic Applications

Ultrasonic baths can be used for critical and industrial cleaning in a rang of many different industries an many different applications, ultrasonic cleaning is becoming an ever more required process across n business sectors.

- Aerospace - Component manufacture.
- Electronics - PCB processing.
- Nuclear industry - General component.
- Automotive - Food industry Crate reprocessing and shackle cleaning.
- Electroplating - Finishing and processing.
- Shipping - Lube oil filter cleaning.

The following table gives specification for the standard benchtop cleaner tank size

Model	PCM 1001	PCM 1002	PCM 1003	PCM 1004	PCM 1005	PCM 1006
Power	100 Watt	200 Watt	350 Watt	450 Watt	500 Watt	750 Watt
Capacity	2 liter	4 liter	10 liter	15 liter	20 liter	25 liter
Tank size (LxWxH) mm	240x130x70	300x150x100	300x240x150	330x300x150	450x300x150	500x350x

Special sizes are available and can be quoted on request.

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