

ULTRASONIC CLEANER SS (LED)

Ultrasonic cleaning is a process that uses ultrasound (usually from 20-400 KHz) to agitate a fluid. The Ultrasound can be used with just water, but use of a solvent appropriate for the item to be cleaned and the type of soiling present enhances the effect. Cleaning normally lasts between three and six minutes, but can also exceed 20 mins, depending On the object to be cleaned.

Process of Ultrasonic Cleaning:

Ultrasonic cleaning uses cavitation bubbles induced by high frequency pressure (sound) waves to agitate a liquid. The agitation produces high forces on contaminants adhering to substrates like metal, plastic, glass, rubber and ceramic. This action also penetrates blind holes, cracks and recesses. The intention is to thoroughly remove all traces of contaminations tightly adhering or embedded onto solid surfaces. Water or solvents can be used, depending on the type of contamination and the workpiece. Contaminants can include dust, dirt, oil, pigments, rust, grease, algae, fungus, bacteria, limescale, biological soil like blood, and so on. Ultrasonic Cleaning can be used for a wide range of workpiece shapes, sizes and materials, and may not require the part to be disassembled prior to cleaning.

Object must not be allowed to rest on the bottom of the device during the cleaning process, because that will prevent cavitation from taking place on the part of the object not in contact with solvent.

What is Degassing ?

Degassing is the minimization of dissolved gas within the cleaning solution. Dissolved gases within the solution cushion the implosion forces reducing the overall efficacy. Fresh cleaning solution mixture or baths that have cooled must be degassed before optimum cleaning can be achieved. Degassing is accomplished by ultrasonically agitating the liquid while raising its temperature. A degas mode accelerates the removal of gas contained in cleaning solutions by pulsing or introducing short pauses in the ultrasonic cycle. A degas mode available in various model ultrasonic cleaners streamlines the degassing operations.

A degassing operations in degas mode can typically be achieved in approximately in 10 minutes but depends on several factors – such as the properties of the liquid, the volume of liquid being degassed, bath temperature, and the ultrasonic power output.

The degas mode is also very effective cleaning method, the bursts of energy and subsequent breaks prevent clustering of bubbles within the bath that can typically occur during normal cleaning cycles thus increasing the effectiveness of the cleaning cycle.

Technical Specification:

Tank	SS 304
Enclosure	SS 304
Tank Capacity	2 litres
Ultrasonic Power	50 Watts
Ultrasonic frequency	33KHz \pm 3KHz
Timer	0 to 20 mins
Power Input	230 VAC
Ultrasonic Generator	Advance Latest MOSFET / IGBT Based SMPS
Accessories	Lid , SS Basket , Power chord
Heater & Degassing	Inbuilt
Transducers	PZT type bonded at the bottom of the Tank (Morgan UK Make)



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