

Ultrasonic Industrial Cleaner Systems

When it comes to cleaning small and large parts in general mechanical engineering, the ultrasonic cleaning process has been the method preferred for many years, as being far superior to traditional cleaning processes.

Ultrasonics can remove all kinds of dirt and other particles such as swarf, grinding and polishing residue, as well as oil, grease. Its scope of application ranges from cleaning the movement of a watch to overhauling the engines of a Jumbo jet.

The cleansing effect of ultrasound is due to the phenomenon of cavitation. Billions of minute gas bubbles implode, causing shock waves that undermine the dirt and blast it off. A great advantage is the fact that even completely inaccessible places can be cleaned. Frequencies between 20 and 80 kHz are used, depending on the type of application. The cleaning solution depends on the type of contamination and the subsequent finishing process. The cleaning is mostly performed at fairly high temperatures of 50° C to 80° C in order to optimize the cleaning process.



What benefits does ultrasound cleaning offer?

- ★ Easy handling
- ★ Shortest cleaning time
- ★ Less chemicals
- ★ Lower cleaning temperatures
- ★ Reproducible results

For which industrial sectors is ultrasound cleaning suitable?

- ★ Optics and glass industry
- ★ Electro industry
- ★ Chemical industry
- ★ Galvanic industry
- ★ Precision mechanics industry
- ★ Power plants
- ★ Metal industry
- ★ Automobile industry

DETAILS	MODEL IUC-50	MODEL IUC-70	MODEL IUC-110	MODEL IUC-170	MODEL IUC-250
TANK CAPACITY	50LTRS.	70 LTRS.	110 LTRS.	170 LTRS.	250LTRS.
TANK SIZE (mm)	550 X 350 X 300	600 X 400 X 350	700 X 450 X 400	800 X 500 X 500	1000 X 500 X 600
OVERFLOW	@ 250mm	@ 300mm	@ 350mm	@ 425mm	@ 500mm
TANK MATERIAL & THICKNESS	SS 304 - 2mm	SS 304 - 2mm	SS 304 - 2mm	SS 304 - 2mm	SS 304 - 2mm
ULTRASONIC POWER (Avg/PP)	750W / 1500W	1000W / 2000W	1200W / 2400W	1500W / 3000W	2000W / 4000W
BONDED TRANSDUCER	15	20	24	30	40
FREQUENCY (KHZ)	20/30/40KHZ	20/30/40KHZ	20/30/40KHZ	20/30/40KHZ	20/30/40KHZ
HEATER	2KW	3KW	4KW	5KW	7KW
TEMPERATURE CONTROL VARIABLE	PROVIDED	PROVIDED	PROVIDED	PROVIDED	PROVIDED
TIMER VARIABLE	PROVIDED	PROVIDED	PROVIDED	PROVIDED	PROVIDED

Features

- ★ Ultrasonic and heat insulation
- ★ Sloped floor for complete emptying
- ★ Edged work area prevents liquid from dropping down
- ★ Beveled cover guides water condensation back to the tank
- ★ Protection against dry running for ultrasound and heating
- ★ Ultrasonic generator is integrated
- ★ Temperature regulation
- ★ Timer for ultrasonic activity
- ★ Contents of 50, 70, 110, 170, 250 liters
- ★ Working frequencies 25, 40 kHz
- ★ Tank, cover, sheathing and drainage tap made of stainless steel
- ★ Overflow edge with connection (set watertight)

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