

Ultrasonic Cleaning using Flammable Solvents Beaker Kits

Beakers filled with flammable solvent provide safe cleaning operation

Operating an ultrasonic cleaner not designated as explosion proof with the tank filled with a flammable solvent poses a serious explosion hazard. However, a standard ultrasonic cleaner can be operated safely* using the following method: Fill beakers with flammable solvent and position them in a water-filled ultrasonic cleaner. Small parts can be cleaned inside covered beakers which are partially immersed in water. The ultrasonic waves pass through the beaker walls and into the solvent. This operation should be carried out with sufficient ventilation to prevent solvent vapor accumulation.



Convenient Kits for Cleaning with Flammable Solvents in Beakers

Tovatech provides the following kits for cleaning with flammable solvents in glass beakers. The beakers are suspended in an ultrasonic tank filled with water (plus a bit of detergent) and the ultrasonic energy penetrates the glass to clean the parts.



Kit Specifications and Price List

Kit	Ultrasonic Bath	Effective Ultrasonic Power	Beakers	Cover
FS EP10	Elmasonic EP10 ¼ gal. (Not Heated)	30 watts	2 – 600ml beakers with plastic lids	Beaker supporting stainless steel cover
FS EP30	Elmasonic EP30 ¾ gal. (Not Heated)	80 watts	2 – 1000ml beakers with plastic lids	Beaker supporting stainless steel cover
FS P30SE	Elmasonic P30SE ¾ gal.	130 watts (@ 37 kHz)	2 – 1000ml beakers with plastic lids	Beaker supporting stainless steel cover

*The ventilation system must ensure that the flammable vapor cannot reach an ignitable concentration near the ultrasonic tank. Check local fire regulations for the maximum quantity of flammable solvent that may be treated in an open ultrasonic tank.