

Ultrasonic Stencil Cleaning Systems

Fast, Safe Solder Paste and Adhesive

Ultrasonic technology utilizes precisely controlled sound waves to remove un-reflowed solder paste and uncured adhesives from stencils, screens, and misprints. Unlike other technologies that can damage delicate stencils, ultrasonic energy is gentle enough not to damage delicate parts, but is highly effective in the removal of even dried pastes on fine-pitch stencils.

Aqueous Technologies offers a selection of semi-automatic and fully-automatic models to choose from.

Semi-Automatic Ultrasonic Stencil Cleaning Systems

Aqueous Technologies' semi-automatic ultrasonic stencil cleaning systems are all designed to accommodate stencils, screens, or misprinted assemblies up to 29" x 29" (736mm x 736mm). All models feature stainless steel wash and rinse tanks and a stainless steel deck.

Multiple side-mounted 40 kHz transducers target effective cleaning power onto the stencil or misprint. Transducers include a ten year limited warranty against debonding.

All models feature a programmable wash cycle timer for consistent operation. In addition to washing functions, all semi-automatic models feature a hand-held rinse wand and a hand-held airknife for fast and effective drying.

Aqueous Technologies offers four semi-automatic models to choose from.

StencilWasher Series

StencilWasher-ECO

StencilWasher-ECO provides fast and efficient solder paste removal at a very economical price. StencilWasher-ECO is designed to remove all solder paste types (including lead-free) and provides wash, rinse, and dry functions. StencilWasher-ECO is equipped with a wash cycle timer, and a hand-held rinse wand and airknife.



eliminating discharge to drain while maximizing the wash solution's life. Rinse water is filtered and discharged to drain.

StencilWasher-ZDO

StencilWasher-ZDO is capable of removing all non-reflowed solder-pastes (including lead-free) and uncured adhesives and is equipped with a wash-solution filtration and recirculation system. Wash solution is filtered and reused eliminating discharge to drain while maximizing the wash solution's life. Rinse water is filtered, re-deionized, and reused via the built-in dosed-loop rinse water recycler.

StencilWasher-LDO

StencilWasher-LDO is capable of removing all non-reflowed solder-pastes (including lead-free) and uncured adhesives and is equipped with a wash-solution filtration and recirculation system. Wash solution is filtered and reused



Specifications

Feature	StencilWasher-ECO	StencilWasher-LDO	StencilWasher-ZDO
Application	Solder Paste Removal	Solder Paste and Uncured Adhesive Removal	Solder Paste and Uncured Adhesive Removal
Dimensions	44" X 27" X 32 1/2"	58" X 45" X 42"	58" X 45" X 42"
Weight	333 Lbs	612 Lbs	612 Lbs
Construction	Welded tube steel frame 16 gauge steel panels	Welded tube steel frame 16 gauge steel panels	Welded tube steel frame 16 gauge steel panels
Finish	Powder-coat epoxy	Powder-coat epoxy	Powder-coat epoxy
Internal Plumbing	Stainless steel Polypropylene	Stainless steel Polypropylene	Stainless steel Polypropylene
Electrical Requirements	110 VAC 10 amps	230 VAC 1 Ø 50 amps	208-230 VAC 1 Ø 50 amps
Wash Tank Capacity	20 Gallons (76 liters)	35 Gallons (132 liters)	35 Gallons (132 liters)
Maximum Stencil Size	29" x 29" (74 cm x 74 cm) 25" x 29" immersion	29" x 29" (74 cm x 74 cm) Full immersion	29" x 29" (74 cm x 74 cm) Full immersion
Drain Requirements	3/4" NPT	3/4" NPT	3/4" NPT Service use only
Wash Cycle Timer	Analog 1 – 99 minutes	Digital 1 – 99 minutes	Digital 1 – 99 minutes
Ultrasonics	500 watt side mounted transducers	1000 watt side mounted transducers	1000 watt side mounted transducers
Hand-Held Rinse Wand	Standard	Standard	Standard
Hand-Held Airknife	Standard	Standard	Standard
Wash Solution Heating System	N/A	Standard	Standard
Wash Water Particulate Filtration System	Standard	Standard	Standard
Rinse Water Carbon/Resin Filtration System	Optional	Optional	Standard