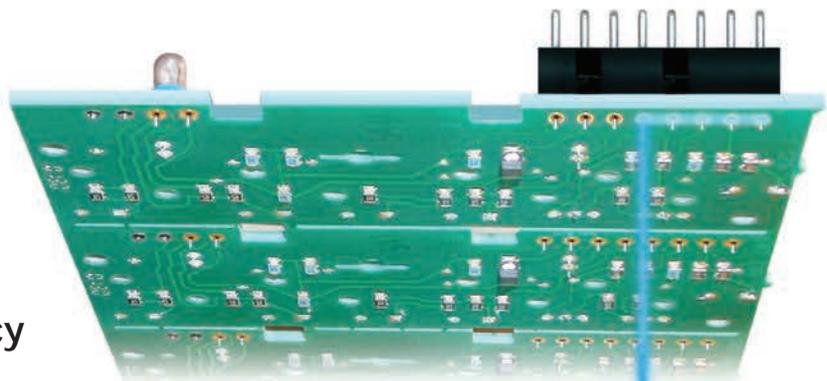


# SelectaFlux Basic



## Ultrasonic Accuracy and Control for Selective Flux Coatings

The SelectaFlux system has many integrated features and benefits:

- Compatible with ALL fluxes
- Easily retrofits into all major selective solder machines
- Reduced wasteful overspray and atmospheric contamination
- Minimal servicing and downtime
- Self-cleaning ultrasonic nozzle prevents clogging
- Controlled-velocity will not harm or disturb components while giving maximum top side fill
- Spray pattern adjustable from 2 mm - 38 mm (0.080" - 1.50")
- Wide range of delivery rates from 1 - 250 microliters/second
- Also ideal for tinning and odd-shaped components



U L T R A S O N I C   S E L E C T I V E   F L U X I N G   S Y S T E M

The SelectaFlux  
Ultrasonic Fluxing  
System from Sono•Tek  
offers the highest degree  
of accuracy, precision and  
fine-line control in  
the industry.



SelectaFlux nozzles can spray in any orientation

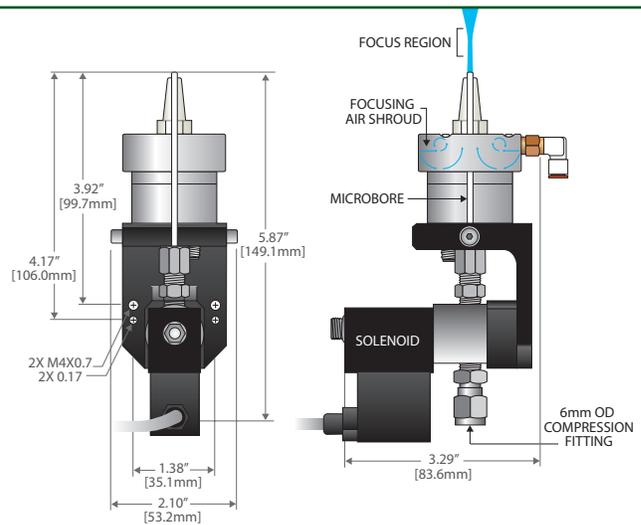
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## Operating Principle

The SelectaFlux system is a complete, ready-to-integrate selective fluxing system with customer-supplied liquid delivery. It combines Sono-Tek's unique Microspray ultrasonic atomizing nozzle with low-pressure air to produce a controlled, highly focused beam of spray. A separate control module handles input/output system functions.

Compressed air, typically at 1 psi, is introduced into the diffusion chamber of the air shroud, which produces a uniformly distributed flow of air around the nozzle stem.

The ultrasonically produced spray at the tip of the stem is immediately entrained in the air stream. The spray envelope is bow-shaped. The width of the bow is controlled by adjusting the distance between the nozzle and the substrate, which can be varied from near-contact to approximately two inches.



## Complete System Includes

Ultrasonic nozzle with focus-adjustable air shroud, ECHO ultrasonic nozzle generator, electrical and I/O connections.



Trigger interface cable



M8 nozzle cable

## SELECTAFLUX BASIC SYSTEM SPECIFICATIONS

### Ultrasonic Nozzle Specifications

Weight	500 g (1.1 lbs)
<b>Materials of Construction</b>	
Nozzle Body*	Titanium alloy 6Al-4V
Nozzle Housing	316 stainless steel
O-rings*	Kalrez®
Air Shroud	Delrin®/316 Stainless Steel
Liquid Inlet*	316 stainless steel (6 mm)
Air/Gas Inlet	Nickel-plated brass (4 mm barb)
Operating Temperature	0 - 50° C (0 - 104° F)
<b>Flux Solenoid Valve*</b>	
Wetted Materials	316 stainless steel, Kalrez®, 400 series stainless steel
Power Requirements	24 VDC @ 10.5 Watts
Air Pressure	0-14 kPa (0-2 psi) typical
Spray Pattern Diameter	2mm - 13 mm (0.70 - 0.50") or 5mm - 38 mm (0.20 - 1.50")

\*Wetted materials

Teflon®, Kalrez® and Delrin® are registered trademarks of E.I. DuPont de Nemours & Company. Specifications may change without notice.

### ECHO Ultrasonic Generator Specifications

Communications	RS232 Peer-to-Peer Serial Com RS485 Multi-Node Network Serial Comm Control via Modbus Protocol Mains Power Input: 100-240 VAC 50/60 Hz 50 VA max (generator only) 80 VA max (with 24 VDC peripherals attached)
Display	White Backlit Graphic LCD Resolution: 0.01W
Output Power	20W continuous ±4% accuracy over 0.5-20W, 25-250 kHz
Frequency	48kHz
External Trigger Input	3-48V(AC or DC) or switch closure (single input)
External Level Control Input	0-5 VDC or 0-10 VDC (user selectable) 30kΩ minimum input resistance
Alarm Output	NO/NC Form C output Contact Rating: 30 VDC, 1A
Operating Temperature	0-50° C (32 - 122° F)
Dimensions	224mm W x 84mm H* x 200mm D 8.8"W x 3.3"H x 7.9" D *4.5" (114mm) H with front legs extended
Weight	0.9 kg (2lbs)

**SONO•TEK Corporation**  
industry's leader in spray fluxing

Corporate Headquarters:  
2012 Rte. 9W, Milton, NY 12547 USA  
Phone: (845)795-2020  
Fax: (845)795-2720

E-mail: info@sono-tek.com ISO CERTIFIED  
Web: www.sono-tek.com  
Printed in USA  
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