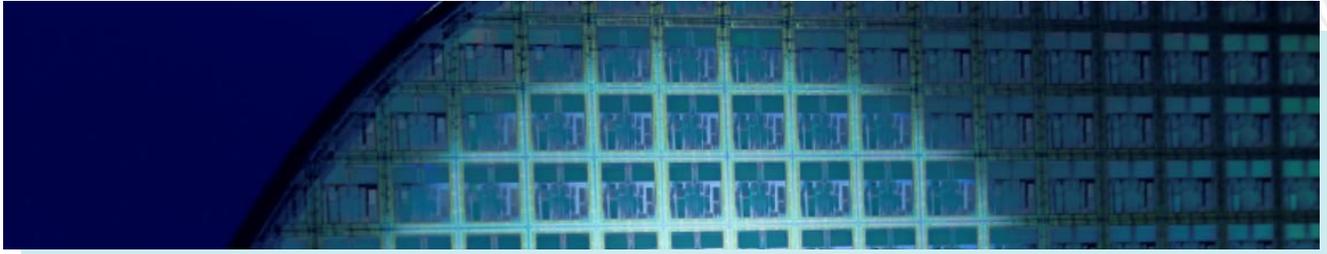


S-1702 ETCH PARTS CLEANER



The model S-1702 is a self-contained, fully automatic system designed to acid etch and rinse quartz chambers, ceramic rings, shower heads and miscellaneous parts, using precise pre-programmed recipes. USER selectable acid spray and spray rinse cycles delivering uniform etching and complete rinsing.

The process chamber dimensions are as follows:

Process Sink:

21.5" left to right, 22.5" front to rear, and 12" deep. The process sink is designed for an all spray process (sink does not fill). The sink features an automatic lid with dual lid close buttons for safe and ergonomically sound operation.

The S-1702 features the following on-board chemical holding tank:

Tank A:

- 5 gallons
- Natural PVDF
- Re-circulated or dumped to drain
- Spray process
- Dedicated piping
- Rinse and purging of the dedicated manifold and parts

The cabinet construction features bulkhead side panels with a drop-down vertical control panel to house the system controls. In addition, a horizontal panel (tilted just right for ergonomic viewing) is located over the work deck to house components which require visual inspection.

A clear panel is provided on the lower front of the tool for visibility into the containment area. Valve and major component access are via ergonomically located sliding access panels on the rear of the tool. These access panels are also clear. Pump access is via a clear lower panel on the rear of the tool.

The final spray rinse is delivered through separate, dedicated plumbing, which provides a final safety rinse for the entire process chamber and the parts. This final rinse piping is then purged with nitrogen to reduce the possibility of bacterial growth during stand-by.



The following is a partial list of additional included features:

1. EMO buttons front and rear
2. Green system power button on the front of the system
3. Interlocks for all access panels covering hazards
4. Nitrogen purged electrical enclosures
5. Linear exhaust across the work deck
6. Minimum of 110% secondary containment of the largest on-board solution vessel
7. Two stage leak detection (low and high level, with audible and visual alarms)
8. Work deck not to exceed 36" from the floor
9. Tamperproof photohelic
10. Low and high exhaust alarms (audible and visual)
11. Quick disconnects for all access panels
12. Ergo-handles on all access panels
13. Main line lockable disconnect
14. Shielding on all voltage greater than 24 volts
15. Interlock sensors for all critical facilities (audible and visual)
16. Low flow DIW bypass (continuous)
17. High flow DIW bypass (intermittent)
18. Lighted work deck and sink area
19. Nitrogen pistol near the work deck
20. DIW pistol near the work deck
21. Eye shield with swing-away hinge
22. Encapsulated stainless steel frame

All control Valves, pumps, storage tanks, process chambers, and plumbing are made of PVDF, Teflon, or natural polypropylene as required for chemical compatibility (**Optional fire safe materials are also available upon request**). Fused PVDF and/or flare type connectors are used for all critical plumbing connections. The overall footprint measures 48" left to right, 52" front to rear, and 86" high.

NOTE: To ensure proper sink sizing and fixturing compatibility it is the customer's responsibility to provide fully dimensioned parts drawings, and the desired load schedule.



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