

Product Description

Semitool Spray Acid Tool

SATFC3280

The Semitool Spray Acid tool (SAT) is a production tool designed to provide a complete process including acid processing, rinsing, and drying of substrates in a single process chamber. Applications include wafer cleaning, metal etch and stripping.

Refurbished System Includes:

Cabinet: Polypropylene Freestanding

- Footprint: 72" W x 38" L x 66" H (See facilities drawing)
- **280 Bowl** ((accommodates 8" substrate-low profile)
 - N₂ purged dedicated chemical and DI water spray manifolds
 - Dedicated TFE N₂ dry manifold
- **202 graphic monochrome controller**
 - Process variable control of RPM
 - Heated chemical temperature
 - Programmable time intervals
 - Programmable automatic abort rinse
- (2) One inch thick Teflon™ (PTFE) chemical process chambers with nitrogen-purged labyrinth shaft seal, Teflon™ bowl seal, DI water spray and heated N₂ dry manifold.
- Monolithic Teflon™ (TFM) rotor to accommodate a single process cassette for each chemical process chamber.
- **Brushless DC drive motor** with CDA purged housings
- **CO₂ Fire Suppression**
- Auto door
- **(2) Heated PFA chemical tanks hold up to 16 liters of chemical solution.**
- Combination of tanks, pumped cells, and or aspirated cells to be defined by the process requirements.
- (1) Stainless Steel Spin Rinse Dryer with Stainless Steel quick detach rotor
- Flaretek™ type fittings on all fluid line connections.
- 0.3 um point of use N₂ filter for drying and chamber purge.
- Programmable drain selection valve.
- Individual chemical, and water drains.
- PFA Teflon™ DI water and N₂ handling system.
- PTFE air articulated valves for chemicals, DI water and N₂.
- Automatic DI water shut off valve in case of CDA loss.
- Painted stainless steel frame and polypropylene cabinet.
- One standard and one clean room manual per tool.
- On-site start-up and training included
(customer responsible for facility installations)

Available Options At Additional Cost

- **HIVIS-High Viscosity Option**
- **CCPFA - Cooling Coil**
- **Chem Delivery Unit**
- **Dry-to-dry Options**
- **Data Logging**
- **CE Upgrade**
- **Bottle Fill**



(Representative photo only)

Supply/Electrical Connections:

Electrical

Power Connection:
Voltage and Current varies with Country
3 Phase Power Required,
Consult Factory For Specifics
Controller Serial Connections: DB-25 Style

Supply

Nitrogen Supply
(25-30 CFM at 40 PSI) 3/4" OD Tubing,
Flare End
Compressed Air (CDA) Supply
(10-12 CFM at 60 PSI) 3/4" OD Tubing,
Flare End
City Water Supply (3-4 GPM at 30 PSI)
3/4" OD Tubing, Flare End
DI Water Supply (7-9 GPM at 30 PSI)
3/4" OD Tubing, Flare End

Exhaust

Electrical Exhaust (50 CFM) 2" Pipe
Fume Exhaust, Cabinet (100-150 CFM) 4" Pipe
Fume Exhaust, Tank / Chamber
(100-150 CFM) 4" Pipe

Drains

Water Drain CPVC Pipe (See facilities drawing)
Chemical Drain CPVC Pipe (See facilities drawing)
DI Water Return (Adjustable) 3/8" OD Tube
Hot DI Water Return (Adjustable) 3/8" OD Tube
Cabinet Drain, 1" CPVC Pipe

