

# Product Description

## Semitool Spray Solvent Tool

SSTC421280

The Semitool Spray Solvent Tool (SST) is designed for a broad range of applications which require solvent or solvent based chemistries for processing. These include photoresist strip, photoresist developing, polymer removal, metal lift-off, and substrate cleaning.

### Refurbished System includes:

- Cabinet: Stainless Steel, Thru-the-Wall, Class 1
  - Footprint: 39" W x 65" L x 66" H (See facilities drawing)
  - **280 Bowl** (accommodates 8" substrate-low profile)
    - Encapsulated Ferrofluidic drive seal
    - Kalrez™ bowl seal
    - N<sub>2</sub> purged dedicated chemical and DI water spray manifolds
    - Dedicated TFE N<sub>2</sub> dry manifold
  - **302 graphic color controller**
    - Process variable control of RPM
    - Heated chemical temperature
    - Programmable time intervals
    - Programmable automatic abort rinse
  - Quick-detachable electro-polished SS Rotor for customer specified carrier
  - **Brushless DC motor**
  - **CO<sub>2</sub> Fire Suppression**
  - Vertical automatic door with Pyrex window and PTFE seal
  - Aspirated bowl rim
  - **(4) Stainless steel round 6 gallon tanks with (2) external blanket heaters**
  - Chemical Fill: Bulk
  - (4) Teflon™ Pneumatic Trebor or White Knight Pumps
  - Individual chemical and water drains
  - Programmable drain selection valve
  - PFA Teflon™ DI water, chemical, and N<sub>2</sub> handling system
  - Exhaust fume condenser for heated tanks and process chamber
  - WR-20A: DI water recirculation
  - EFS: Exhaust fail sensor
  - FFR: Fresh to fresh chemical recirculation
  - F-10U: 10" PFA or SS housing with .2 micron filter
  - FSV: DI facility shut off valve in event of CDA pressure loss
  - TDLS: Tank drawer liquid level detector
  - TN2P: Nitrogen purge (low flow) of chemical tanks
  - 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

- Chemical Delivery Module
- CO<sub>2</sub> Injection into DI water manifold
- Data Logging Software
- Extended Warranty – 1 Year
- ESEP-21 (Enhanced Semitool Electropolished Treatment)
- Funnel Fill
- Bottle Fill
- CE Upgrade
- Stainless steel tubing for chemical supply
- Waste Carboy w/ Pump



(Photo for representation only)

### Facility Requirements:

#### Supply / Electrical Connections

- Compressed Dry Air (3/8" o.d. PFA Tubing, Flare End, 40-50 PSI, 3-5 CFM)
- Nitrogen (1/2" o.d., PFA Tubing, Flare End, 30-40-PSI, 4-6 SCFM)
- Tap water (3/8" o.d. PFA Tubing, Flare End, 20-30 PSI, 2-3 GPM, < 16 degrees C)
- Deionized water (1/2" od PFA Tubing, Flare End, 30-40 PSI, 2 GPM)
- Chemical Bulkfill (1/2" od SS Tubing, Swagelok)
- Electrical Power (Voltage and Current Requirements vary with Country and Options)
- Serial Connectors (Remote, SECS: DB25 Style)

#### Drain / Exhaust Connections

- Unheated Chemical Exhaust (6" od Tube, 100-125 SCFM)
- Heated Chemical Exhaust (6" od Tube, 150-175 SCFM)
- Electrical Cabinet Exhaust (4" od Tube, SS, 75-100 SCFM)
- Deionized Water Recirculation (3/8" od PFA Tubing, Flare End)
- Tap Water Return (3/8" od PFA Tubing, Flare End)
- Chemical Drains (3/4" od PFA Tubing, Flare End)
- Water Drain (3/4" od PFA Tubing, Flare End)
- Tray Drains, Chemical (1/2" od SS Tubing, Swagelok)
- Tank Drains, Chemical (1/2" od SS Tubing, Swagelok)