

Applications Include:

- Nitride etch/strip: Phosphoric Acid (H_3PO_4) and water (H_2O)
- Sulfuric (H_2SO_4) process
- Hydrofluoric (HF) process
- Buffered oxide etch (BOE) process (hydrofluoric and ammonium fluoride)
- Hydrochloric (HCL) process
- SC1 (ammonium hydroxide and hydrogen peroxide)
- SC2 (hydrochloric and hydrogen peroxide)



Service: Cascading process bath for virtually any wet chemistry recirculation/filter application.

SPECIFICATIONS:

Tank Sizes:

- Two 4" (100mm) cassettes
- Two 5" (125mm) cassettes
- Two 6" (150mm) cassettes
- One 8" (200mm) cassette
- Two 8" (200mm) cassettes

Temperature range: Up to 180° C chemistry

Construction:

- Unbreakable PFA inner and outer tanks
- Inner tank sparger rails provide:
 - Even chemical dispersion
 - False bottom on which carriers are set
- Inner tank walls have serrated edges to prevent whirlpools
- Easy-to-level inner tank ensures uniform cascading of the chemistry
- Outer PFA weir for enhanced chemical and heat distribution
- Halar® coated stainless steel outer structure for strength and rigidity
- PTFE top deck assembly for added structural support
- Air diverter located in the outer weir to prevent the formation of air pockets around the heater

Standard features:

- Process thermocouple port
- Outer weir thermocouple port
- Liquid level port for N_2 bubble sensor
- System overflow connection
- Drain connection
- Process tank leveling adjustments
- Flaretek® inlet connections for remote pump

Heater voltages available: 120 to 600 volts, single or three phase

Options:

- Tank system can be integrated with existing control systems
- PID or PLC temperature control
- Integral fluoropolymer immersion heater and/or in-line heater (fluoropolymer or quartz available)
- Chemical dispensing manifold
- Custom interfacing to match existing system
- Manual, pneumatic or hydraulic operated lid
- In-line filter chamber
- PTFE condensing coil
- Custom fitting of tank to match existing system
- Additional ports for level sensing and automatic chemical fill
- Wafer locator nest

FEATURES AND BENEFITS:

- **Longer lasting:** Nonbreakable fluoropolymer construction lasts longer than fragile quartz tank systems.
- **Improved process results:** False bottom provides stability for cassettes and promotes even chemical and heat distribution.
- **Easy heater replacement:** Optional PTFE immersion heaters are easily replaced without the need to replace the entire tank assembly. (When an externally bonded heater on a quartz tank fails, the entire tank must be removed and returned to the manufacturer.)
- **Excellent COO (cost of ownership):** Durable PFA tanks last longer than comparable quartz tanks and also eliminate the need for keeping expensive spare quartz tanks in stock. Purged PTFE heaters last much longer than comparable quartz tank heaters.
- **Reduced downtime:** Avoid the time and expense of sending quartz tanks back to the manufacturer for repair.
- **Rapid installation:** Systems are sized to closely match existing quartz tanks for easy retrofitting.
- **Outstanding chemical compatibility:** All fluoropolymer wetted parts are compatible with virtually any chemistry.
- **Rugged construction:** Halar® coated stainless steel support structure for added strength and rigidity.

