

Tool ID: 705  
Tool Location: 103

## Equipment Information Sheet Hot Phosphoric Tank

**Manager:** Phil Infante  
**Backup:** Christopher Alpha

607-254-4926  
607-254-4913

Calls to staff phones will be automatically forwarded to their cell phones during accessible hours. At other times leave a message or send them an email.

### SAFETY

- Follow all standard lab policies for use of chemicals
- System uses boiling phosphoric acid! Wear protective equipment when working at hood!
- When acid is boiling it gives off a significant amount of acid fumes. Open lid slowly to avoid acid fume exp

### USAGE RESTRICTIONS

#### SCHEDULING/SIGN-UP RESTRICTIONS

- None

*Minimum Tool Time: 0  
minutes*

### MATERIALS COMPATIBILITY CATEGORY

#### Tool Category 1E: Silicon Based Materials and Select Dielectrics

Allowed	Not Allowed
Silicon Based Materials only	No Evaporated or Sputtered Films
Si, SiC, SiO <sub>2</sub> substrates	No Metal or Organic Films
All Furnace grown or deposited films	No Glass Substrates
PECVD Films	No III/V Compound Semiconductors
Select ALD dielectrics (SiO <sub>2</sub> , SiN, HfO <sub>2</sub> , HfN)	No High Vapor pressure materials
Spin on Glass and Spin on Dopants	Organic/Biology Molecules prepared-with or without Salt buffers

**High Vapor Pressure Metals and Compounds** are materials that have a vapor pressure above 1e-6 Torr at 400 C.

#### Additional Material Restrictions and Exceptions

- Silicon nitride etching only - no metal etching
- Teflon boats only!

*Last Updated: 03/20/2019*