



MOOV

SEMITOOL

CONFIGURATION: Process: Cu ECD Substrate: 200mm (field upgradable to 300mm) Voltage: 400 vac, 3 phase, 5 wire CE Comp: Yes S2 Comp: Yes - like tool report only Controller: 502SE Remote PPS: No Bridge: No 1st in Fab: Yes Marathon: No

AUTOMATION: Type: (3) cassette WIP w/ ULVAC Robot: Process - Coaxial HT Buffer - Coaxial HT End Effector: Dual Edge Grip PreAlgnr: No Carrier ID: tbd Tag Reader: None Fab automation: None Notes: - ULVAC Module

CABINET: Style: Raider 10 chamber Cabinet #: To be specified Material: PVC-C Special: None Exhaust: Bottom Facilities: Bottom Fire suppression: 720C0202 (CO2 bottles will be provided locally) User interface: Strong arm ULPA fltrs: PTFE w/ scorpion ion bars

PROCESS MODULE

CPC3, 4, 7 & 8 Process: Cu plate - CFD3m Chamber #: 271T0120-01 Ring Contact: tbd Anode: Inert w/ bulk Cu Platng P/S: T16852-114 Contact: Mercury Flow meter: No Notes: 0.028" in-situ wafer rinse restrictor

CPC 5 & 6 Process: Cu plate - CFD3m Chamber #: 271T0120-01 Ring Contact: tbd Anode: Inert w/ bulk Cu Platng P/S: T16852-114 Contact: Mercury Flow meter: No Notes: 0.028" in-situ wafer rinse restrictor CPC 1, 2, 9 & 10 Process: Backside Bevel Etch (Capsule 1) Chamber #: Assembly number required Edge exclusion: 1.75mm Reclaim: Single Use IPA vapor gen: No Notes: -N2 backside purge -Air to air valve on head -Grounded push plate -Dish nozzles for N2

DELIVERY SYSTEMS: TANK1 (dSPM Process) Size: 20L Style: Sealed PFA Heat/cool: H/C Coils Temperature: 25°C Filter: 10", 0.1µm Mykrolis filter/housing Level Sensor: (3) float Pump: WK AP50 Supply: Tank 2 Delivery: CPC1, 2, 9 & 10 Chemistry: dSPM

TANK2 (dSPM Mixing) Size: 10L Style: Sealed PFA Heat/cool: H/C Coils Temperature: 25°C Filter: n/a Level Sensor: (5) float Pump: W/K AP50 Supply: Bulkfill Delivery: Tank 1 Chemistry: dSPM

TANK3 (Cu Catholyte) Size: 120L Style: Contour NPP Heat/cool: Dual heat exchange loops Temperature: 25°C Filter: 10", 0.1µm Mykrolis filter/housing

Lvl Snsr: (5) float Delivery Pump: Levitronix BPS-3 Maint Pump: W/K AP100 Supply: Bulkfill Delivery: CPC4, 5, 7 & 8 Chemistry: Cu Catholyte Notes: -Sample port -Bath/Bleed Recovery (CCW) - ACMS interface -Cu RTA Probe -Cross Plumbed with tank 5 (user to select to run tanks together or isolate) -Photo spec analyzer for Cu conc.

TANK4 (Cu Anolyte) Size: 48L Style: Plating NPP Heat/cool: H/C Coils Dual loops Temperature: 25°C Filter: 10", 0.1µm Mykrolis filter/housing Level Sensor: (5) float Delivery Pump: Levitronix BPS-

3 Maint Pump: WK AP-50 Supply: Bulkfill Delivery: CPC3, 4, 7 & 8 Chemistry: Cu Anolyte Notes: - Sample port -Bath/Bleed Recovery -pH probe -Photo spec analyzer for Cu conc.

Tank 5 (Cu Catholyte) Size: 65L Style: Plating NPP Heat/cool: H/C Coils Dual loops Temperature: 25°C Filter: 10", 0.1µm Mykrolis filter/housing Level Sensor: (5) float Delivery Pump: Levitronix BPS-

3 Maint Pump: WK AP50 Supply: Bulkfill/Bottlefill Delivery: CPC 5 & 6 Chemistry: Cu Catholyte

Notes: -Sample port -Bath/bleed recovery -ACMS Interface -RTA Probe -Photospec analyzer for sulfuric conc, cross plumbed w/tank 3 (user to select to run tanks together or isolate) Tank 6 (Cu Anolyte)

Size: 36L Style: Plating NPP Heat/cool: H/C Coils Dual loops Temperature: 25°C Filter: 10", 0.1µm Mykrolis filter/housing Level Sensor: (5) float Delivery Pump: Levitronix BPS-3 Maint Pump: WK AP-50 Supply: Bulkfill/Bottle cart

Delivery: CPC 5 & 6 Chemistry: Cu Anolyte Notes: -Sample port -Bath/Bleed recovery -Ph Probe - Photo spec analyzer for Cu conc. DRAINS: -Dilute Cu Waste (DCW) -Diltute Acid Waste (DAW)