

Design Matrix

Spray Solvent Tool (SST) System Spray Acid Tool (SAT) System



SST



SAT

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1. Applicable Process :

Less than 6" Process : Resist Strip , Positive Resist , Negative Resist, Mask Clean

2. Process benefit :

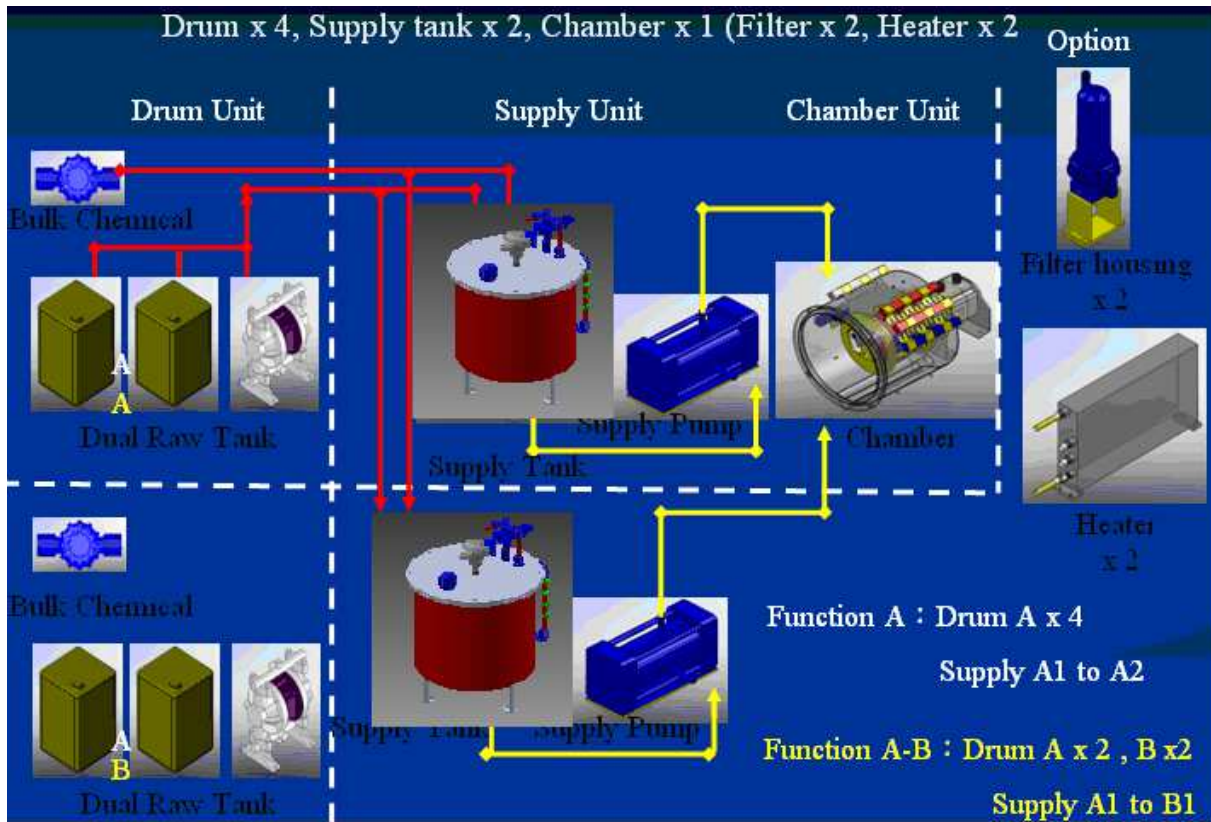
- ⊙ Dry in, dry out
- ⊙ Low cost of ownership
- ⊙ Reduction 52% footprint
- ⊙ Efficiency SST VS, Semi-auto bench increase 57 %
- ⊙ Efficiency SST VS,Auto bench increase 49 %
- ⊙ Reduction 35-45% DIW
- ⊙ Easy to extend
- ⊙ Operation Safety

3. Equipment consists : Single ChamberUnit

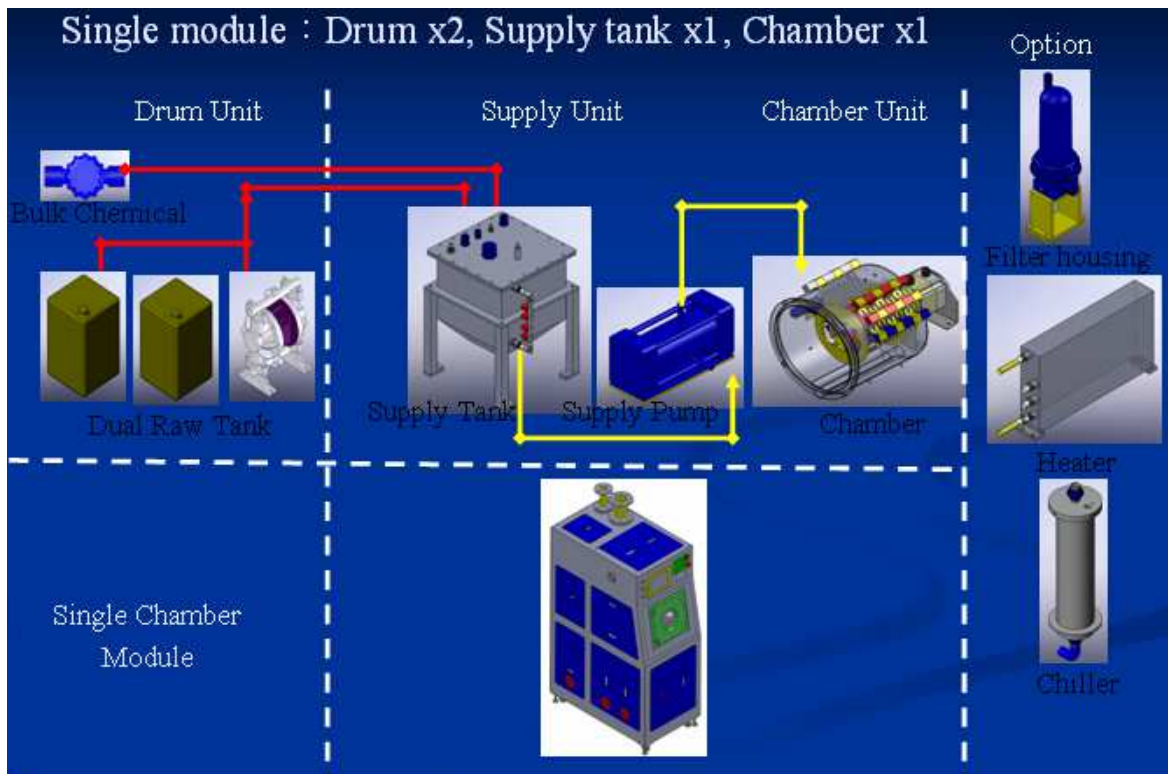
Item	Equipment unit	Unit	SST AZ300	SAT BOE
1	Drum unit	SET	4	2
	20L Raw chemical drum (Solvent-1 x 2, Solvent-2 x 2)	EA	2 + 2	2
	Drum chemical pump (Solvent-1 x 1, Solvent-2 x 1)	EA	1 + 1	1
2	Bulk chemical port (Solvent)	SET	1	1
3	Supply unit	SET	2	1
	Supply tank	EA	2	1
	3000 Kw chemical heater (Temp Maxi.100 度)	EA	2	1
	Chemical Filter housing (10 吋, 222 O-ring)	EA	2	1
	Supply pump	EA	2	1
	Flow meter	EA	2	1
4	Chamber unit	SET	1	1
5	PC Base / HMI control system	SET	1	1
6	SEC II system	SET	1	1
7	Emergency system(FIRE FIGHTING)	SET	1	0

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4. Main design matrix of system :

Basic Function: Chemical spray, DIW rinse, Pipe purge, Hot N2 spins dry,

1. Max. Speed of spin: Up to 30,00 rpm. (stable state :Max 2400 ~20)

2. HN2 Flow heater.

3. Chemical Manager --- Chemical Type/ Circulation / Temperature / Quality Control

4. With Safety Function, --- Leakage / Pressure / Inter-Lock / EMO function.

5. Recipe Capacity: Up to 15 recipes, ≥ 150 -step for each Recipe.

6. with Auto-Clean Function.

7. The vibration is less than 300 um while rotor spinning.

8. Spin speed tolerance: Less than 5%.

9. with SUS-316L-EP , Teflon Coating Rotor

10. with SUS-316L-EP , Teflon Coating Bowl

11. With Perfluorinated door seal & real seal.

12. Use Air seal for motor and Bowl.

13. With Brushless Sever Motor.

14. with non-contact N2 heater.

15. with 0.003um filter.

16. All PTFE Chemical, DI and N2 Valve.

17. All PFA Tube for Chemical, DI and N2.

18. 22" LCD Monitor.

19. SEC II /CIM Function

5. System Material : PFA, SUS, PP, Fire protection pvc ◦

Footprint : 1000 W x 1500 D x 2000 H (Without light tower)