

1. General Information	
Equipment Information	Wet Station
Model	DNS WS-820L (2-Carrier 50-Wafer Special Type)
Manufactured	AUG . 1997
Serial Number	54520 - 2679
Process for	Etching

2. Bath Configuration																
	STOCKER															
U/LD	Wafer Flat Zone	TR-1	IN-CTC	S/T-1	C/C	HF	EDR-1	BHF	EDR-2	S/T-2	F/R	S/D	OUT-CTC	TR-2		
L/D																
← Shuttle →																

3. System Information	
Chemicals	HF / BHF
Transfer Flow	Left ⇒ Right
Seperation Unit	HF / BHF Control Module
Measuring Instrument	Resistivity meter DKK AQ-10 (Final Rinse)
PLC (Master, Bath, POU Loader/Unloader)	Mitsubishi: A3A CPU P21 (4set)
Robot (3-Robot)	Left/ Right Stepping Motor (Oriental: VEXTA UPH596TG10-A)
	Up/Down Stepping Motor (Oriental: VEXTA PK596H-NACM-A4)
Circulation (HF/BHF)	Heating Exchange: KOMATSU E-332B-6 (2set)
	Chemical Filter: Housing Type
	Regulator: DR-631B (2set)
	Pump: FF-20BT1-T3 (IWAKI BELLOWS)
Main PC	INTEL (Hard Disc)
Operation language	Japanese
Carrier Detactor Sensor (Robot-1, 2, 3)	Front Carrier Detector Sensor
Signal Tower	3-Color (GYWR) PATLITE Lamp Type
Power	3P 200V, 10KVA, 1P 100V, 60KVA
Loader/Unloader	3-Carrier Loading
Heating Temp Board (HF)	Special Type Board (3-set)
Position Unit (Robot-1~3)	Mitsubish AD71

4. Missing Parts List
1) Heating Exchange: KOMATSU E-332B-6 (1-set)

DNS WS 820-L / MFG.No : 56520-2679

Warehouse No		Process ID		Maker	Model	Condition					
				DNS	WS-820L						
POSITION NO		1	2	3	4	5	6	7	8	9	10
Name		IN-CTC	CHCL	HF-1	EDR-1	BHF	EDR-2	FR	SPARE	Spin Dryer	OUT-CTC
Shutter Position		▲					▲				
ROBOT(Transfer Unit)		←R1 R2→				←R2 R2→				←R2 R3→	
Chemical in Use		#1	DIW	HF	DIW	BHF	DIW	DIW		DIW	
		#2	-	DIW	-	-	-	-	-		
		#3	-	-	-	-	-	-	-		
Mixing Ratio			-	-	-	-	-	-			
Processing Temperature(°C)			RT	25±0.1	RT	25±0.1	RT	RT		RT	
Bath Material			-	PTFE	Quartz	PTFE	Quartz	Quartz			
Bath Shape (Type)			-	Overflow IN/OUT	Overflow	Overflow IN/OUT	Overflow	Overflow			
Bath Capacity (L)			-	37	28.6	37	28.6	28.6			
Materials	Bath Lower Section		PVC	PVC	PVC	PVC	PVC	PVC			
	Chemical Supply Piping			PFA		PFA					
	Drain Piping		C-PVC	C-PVC	C-PVC	C-PVC	C-PVC	C-PVC			
Bath Processing Functions	Shower		STD		STD		STD				
	DIW Over Flow				STD		STD	STD		STD	
	N2 bubbling / N2 Dry		STD								
	Resistivity meter							STD			
	Auto-cover			STD		STD				STD	
	DSM										
	Bath Cleaning			STD		STD				STD	
	Chemical /H2O Supply Function										
	Electric thermcontroller Heater			DR-631-B		DR-631-B					
Drain	Process Bath	→ Gravity Drain	O		O		O	O		O	
		→ Pump Drain		O		O					
		→ Quick Drain			O		O	Slow Drain			
		→ Aspirator									
		→ Cooling Tank									
	Drain switching										
	Drain Chemical Name #1			HF		BHF					
Drain Chemical Name #2		ACID	ACID	ACID	ACID	ACID	General		General		
Circulation Pump				FF-20BT1-T3		FF-20BT1-T3					
Circulation Filter											
Circulation Housing				Housing Type		Housing Type					
Heating Exchange				DR-631-B		DR-631-B					
Circulator				E-332B-6		E-332B-6					
Concentration Monitor											
Pulse Dumper											
Missing Tank	Material / Temperature (°C)	#1		HF+DIW		BHF					
		#2									
		#3									
	Replenishment (Pump,Level.etc)	#1									
		#2									
		#3									
Preliminary temperature control (Heater)											
Chemical / H2O Supply Function				PMU CCSS		PMU CCSS					
Remarks				PMU		PMU					