



LAM Research

2300 Exelan Flex

Serial Number: 101066

Process Type: Dry Etch

Wafer Size: 300mm

Date of Manufacture: 2007

B9 Asset ID: 13047

Equipment Information:

Status of Equipment: Installed

Lam Research 2300 Exelan 4 Chamber Oxide Etch

Row #	Parent Component	Part Desc	Detail Desc
1	Standard Specs	Software Revision	1.7.1 SP2
2	Standard Specs	Factory Automation	OHT PIO Sensor
3	Standard Specs	Wafer Size	Diameter 300+/- 0.05mm(SEMI M28), 775 +/- 25um, Notch
4	Standard Specs	Carrier	FOUP (Comply with SEMI E47.1 (25wafers))
5	Standard Specs	Inter Face	3 carrier stage (Continuous

			flow operation)
6	Standard Specs	Online Connection	GEM / CIM JGJ (Hardware Interface : Ethernet 100Base-Tx)
7	Standard Specs	Utility Box	Regulator : Air/AR2500(S MC), N2/SQ-420E(VERUF LO), He/SQMICRO (VERIFLO)
8	Standard Specs	Utility Box	Manual Valve : OGD20V-6RM-K / OGD10V-4RM-K (CKD)
9	Standard Specs	Utility Box	Pressure Gauge : Bourdon Gauge
10	Standard Specs	Platform Type	Version 2
11	Standard Specs	UPS on system	Yes
12	Standard Specs	Earth Leakage Breaker	Yes (for Fab 3 only)
13	Standard Specs	Gas Box	Transport Module, GIB for 16 lines IGS GBX
14	Standard Specs	Monitor	2 (Flat Panel Display Touch Screen Type,

			1; Fromt, 1; Side)
15	Standard Specs	Signal Tower	Red/Orange/ Green/Blue (Upper Left of Front x1 & Upper right section of loader on maintenance side x1)
16	Standard Specs	EMO	Front x2, Rear x6
17	Standard Specs	Conditioning Station	No
18	Standard Specs	Foreline	Not Heated
19	Standard Specs	Sub-panel	Dual Drop Sub-panel
20	Standard Specs	Interconnect Cables	TM to sub-panel, 50 ft
21	Standard Specs	Pump to TCU	50 ft
22	Standard Specs	TCU to PM	50 ft
23	Standard Specs	PM to Pump Interconnect	50 ft
24	Standard Specs	Inter Lock	Gas Box Door (I/L Signal is sent to the Factory)
25	Standard Specs	Inter Lock	External (When the I/L signal is received from Factory, gas valves are

			closed)
26	Support Remote Units	Chiller Lower	ATS DEX 20A

27	Support Remote Units	Coolant	FC3283
28	Support Remote Units	Temperature Monitoring Kit	SNSR, TC, TYPE T WITH FEMALE CONN
29	Support Remote Units	Chiller Hose	5/8 ID Stainless Flex
30	Support Remote Units	RF Generator 2 MHz	Including RF Cable Tru-8743-07 (7 ft cable)
31	Support Remote Units	RF Generator 27 MHz	Including RF Cable Tru-8743-07 (7 ft cable)
32	Support Remote Units	RF Matcher, 2-27 MHz, DFC	RF Matcher, 2-27 MHz, DFC
33	Support Remote Units	Wafer ID Reader	WIDS Bottom Read
34	Support Remote Units	Carrier ID Reader	Asyst RF Advantag
35	Hardware Config	Process Chb.1,2,3,&4	2300 Exelan FEOL Flex FODGF
36	Hardware Config	Input Buffer Station	25 Wafer Input Buffer Station
37	Hardware Config	Process	91 Ox
38	Hardware Config	Endpoint type	Optical Emission

			Spectroscopy
39	Hardware Config	ESC type	Dual Zone/Flex Bipolar
40	Hardware Config	Focus ring	Hot Edge, Si
41	Hardware Config	High-conductance Wap Ring	4 Ring
42	Hardware Config	Gap	2.34 cm
43	Hardware Config	TMP	TMP-Edwards 1603
44	Hardware Config	Dry Pump	IH 600 (EDWARDS) ; Micron Supply
45	Hardware Config	Transfer Module Backing Pump	EPX with N2 Gas Module

46	Hardware Config	Pressure Monitor	C/M (Process Monitor) 628B01TDE1 B (MKS) 1 Torr
47	Hardware Config	Pressure Monitor	C/M (Service Monitor) 625A-14059 10 Torr
48	Hardware Config	Pressure Monitor	C/M (Foreline Monitor) 625A-14059 10 Torr
49	Hardware Config	Pressure Monitor	Absolute Pressure switch 75 Torr

			Lam P/N 768-093959-001
50	Hardware Config	Pressure Monitor	Differential Pressure switch Activation 7mm Hg Vac Precision Sensors P/N D48W-14
51	Hardware Config	Upper Electrode	Heated Constant Temperature Control
52	Hardware Config	Coolant Temp Monitor Kit	Coolant Temp Monitoring Kit for Top Plate & Lower Electrode
53	Hardware Config	O-Rings	FluoroSilicone
54	Hardware Config	Chamber Isolation Valve	Barrier Seal Door
55	Hardware Config	Wafer Lift Mechanism	Direct Drive
56	Gas Position	Gas line 1	Gas line 1- C4F8 50 sccm- UNIT 8561-SC14
57	Gas Position	Gas line 2	Gas line 2- CF4 200 sccm- UNIT 8561-SC14
58	Gas Position	Gas line 3	Gas line 3-O2 3000 sccm- UNIT 8561- SC16

59	Gas Position	Gas line 4	Gas line 4-Ar 1000 sccm- UNIT 8561- SC14
60	Gas Position	Gas line 5	Gas line 5-Ar 200 sccm- UNIT 8561- SC13
61	Gas Position	Gas line 6	Gas line 6-H2 1500 sccm- UNIT 8561- SC15
62	Gas Position	Gas line 7	Gas line 7-O2 50 sccm-UNIT 8561-SC12
63	Gas Position	Gas line 8	Gas line 8- CHF3 50 sccm- UNIT 8561-SC12
64	Gas Position	Gas line 9	Gas line 9- CH2F2 100 sccm-UNIT 8561-SC12
65	Gas Position	Gas line 10	Gas line 10- C4F6 50 sccm- UNIT 8561-SC13
66	Gas Position	Gas line 11	Gas line 11- He/O2 (O2- 30%) 100 sccm- UNIT 8561-SC12
67	Gas Position	Gas line 12	Gas line 12- N2 1000 sccm- UNIT 8561-SC15
68	Gas Position	Gas line 13	Gas line 13-

			CF4 1000 sccm UNIT 8561-SC15
69	Gas Position	Gas line 14	No gas
70	Gas Position	Gas line 15	No gas
71	Gas Position	Gas line 16	No gas
72	Gas Box Config	Purge	N2 (Process Grade N2) (Micron Supplied)
73	Gas Box Config	Filter	Final gas : Mykrolis (P/N WG2FT1RR2)
74	Gas Box Config	Gas Box Inlet Option	Regulated Inlet Gas Panel

75	Gas Box Config	Non- standard PM/GB Feature	Stone Henge Gas Box / with GIB Option 16 lines double containment.
76	Gas Box Config	Gas Line Pressure Transducer	Actual pressure transducer WITHOUT digital readout
77	Gas Box Config	Regulator	SQMICRO (VERIFLO)
78	Gas Box Config	Piping	Dual Piping (for Gas leak containment, Gas box to Final valve &

			Exhaust through Gas box)
79	Gas Box Config	Final Pressure Switch	Absolute Pressure switch 400 torr Lam P/N 796-002833-3
80	Process Kit Config	Upper Outer Electrode	ASSY,ELCTD ,OUTER,.18 STEP,300M
81	Process Kit Config	Upper Inner Electrode	ASSY,ELCTD ,INNER,TC,300MM
82	Process Kit Config	Quartz WAP Ring	RING,WAP,T wist Lock,17IN,300MM
83	Process Kit Config	Quartz Generic Ring	RING,WAP,Q TZ
84	Process Kit Config	Gas Feed Ring	Ring, Ptn, Gas Feed, Dual Zone
85	Process Kit Config	Dual Zone ESC	ESCASSY,DZ CLG,2 FNSH,300MM
86	Process Kit Config	ESC Bolts	ESC Bolts - 10-32 x1.125

			Ing, vented
87	Process Kit Config	Edge Ring Cover (In)	COV,H/E RING,QTZ
88	Process Kit Config	Focus Cover Ring	B,FOCUS R CVR,DFC 300MM
89	Process Kit Config	Hot Edge Ring	RING,HOT EDGE,.195 HGT,SI,DUAL ZONE ESC
90	Process Kit Config	Edge Ring Cover (Out)	RING,COVER ,OUTER,GND
91	Process Kit Config	Fixed Coupling Ring	RING,TOP,A DJ,CPLG,230 0,300MM,D
92	Process Kit Config	Ground Shield	SHLD,GND,3 00MM,2300
93	Process Kit Config	Liner	LINER/SPCR, EXT GND RING,2.0CM GAP
94	Process Kit Config	4-Ring Hangers	HANGER,4R,. 025,.08- ,.08.12- .12,.010FW,3 00MM
95	Process Kit Config	Retainer Spring	ASSY RETAINER SPRING

96	Process Kit Config	1/4-20 Peek Nut	NUT,1/4-20, VIRGIN PEEK
97	Process Kit Config	Peek Clocking Washer	WSHR,FL,PEEK,.263IDX.682ODX.06THK
98	Process Kit Config	Peek Sleeve	SLV,ADPTR,SLIP-ON,SELFCNTR,V PEEK
99	Process Kit Config	0.010 Peek Pad	PAD,R,CONF,.010THK.300MM

100	Documentation/Misc	Manuals	Soft(CD) copy
101	Documentation/Misc	Spares	Clean kit (2), and Pendulum Valve Clean Kit(2)
102	Documentation/Misc	Fixtures, Jigs.	Provide necessary Fixtures and/or Jigs including:Ladder for MFZC change (1 per every 5 tools)Turbo pump jack (2 pcs in total)