

PTW ASIA PTE LTD

ASM International A412 Doped Poly		
Vertical LPCVD Furnace		
Manufacturer	ASM	
Model	A412	
Product Description	Vertical LPCVD Furnace	
Year of Manufacture	2006	
Serial Number	30295	
Wafer Size	300mm	
Software version	6.80C	
Heater Type	MRL	
Process	Poly	
Loader configuration, 4 or 5 loader - 4		
Quartzware Configuration (Not included)		
Outer tube	Quartz	
Inner tube	Quartz	
Boat	SiC boat	
Boat fix ring/Cap quartz	Quartz	
Adiabatic plate quantity	6	
Back N2, Qty	N/A	
BCl3, Qty & Type (L-type, Straight, Diffuser, Shower)	N/A	
SiH4, Qty & Type (L-type, Straight, Diffuser, Shower)	Multihole (1) U/D/L	
O2, Qty & Type (L-type, Straight, Diffuser, Shower)	Multihole (1) E	
PH3, Qty & Type (L-type, Straight, Diffuser, Shower)	Multihole (1) U/D/L	
CIF3, Qty & Type (L-type, Straight, Diffuser, Shower)	N/A	
Vacuum Line configuration		
Design	original config	
10 Torr Baratron model	MKS	
10 Torr Baratron full scale setting	10(F/S)	

1000 Torr Baratron model	MKS	
1000 Torr Baratron full scale setting	1000(F/S)	
ATM sensor model	MKS	
Vent Valve 1 (VV1) normally	Normally open,plunger	
closed/open,plunger, diaphragm	Check valve model	
Check valve model	Fujikin	
Check valve resistance pressure	2.26 Kpa	
Mainvalve type, Kitz or CKD	MKS	
Slow valve, incorporated with mainvalve or separate(AV72,AV77)	Separate (PV003)	
Slow valve orifice size	2.0mm (PV003)	
Pressure range of vacuum gauge(Inficon Pirani gauge)	10T	
Control Table		
Alarm Watch/Table setting		
Temp (Low Alarm Limit(deg)/High Alarm Limit(deg)/Check Time(min))		
U	0.7/0.7/30S	
CU	0.7/0.7/30S	
С	0.7/0.7/30S	
CL	0.7/0.7/30S	
L	0.7/0.7/30S	
Pressure (Low Alarm Limit(Torr)/High Alarm	0.02/0.02/30S	
Limit(Torr)/Check Time(S))		
MFC (Low Alarm Limit(%)/High Alarm Limit(%)/		
MFC1	N2: 2%/2%/10sec	
MFC2	N2: 2%/2%/10sec	
MFC3	N2: 2%/2%/10sec	
MFC4	N2: 2%/2%/10sec	
MFC5	SiH4: 2%/2%/10sec	
MFC6	SiH4: 2%/2%/10sec	
MFC7	SiH4: 2%/2%/10sec	
MFC8	1%O2/Ar: 1%/1%/10sec	
MFC9	5%PH3/N2: 2%/2%/10sec	
MFC10	5%PH3/N2: 2%/2%/10sec	
MFC11	5%PH3/N2: 2%/2%/10sec	
MFC12	CIF3: 10%/10%/10sec	
MFC13	N/A	
MFC14	N/A	
MFC15	N/A	
MFC16	N/A	

MFC17	N/A
MFC18	N/A
MFC19	N/A
MFC20	N/A
MFC21	N/A
APC Valve Action (High (%), Low (%), Time(s))	N/A
Transfer Table	
Wafer Charge command (charge/discharge)	
Side Dummy	Upper:5 / Lower:10
Product	100
Monitor	5
Product & Monitor	105
Time	
2nd charge time(min)	0
wafer cool time(min)	20min
Leak Rate Table	
Base pressure low Limit(Torr)	1%
Base pressure High Limit(Torr)	1%
Leak Check check time(s)	60s
Leak Check delay time(s)	N/A
Leak limit(Torr)	1%
Retry Limit(count)	2
Loadlo	ck Settings
Loadlock	configuration
O2 analyser model, NGK or Toray	PBI3.1 / PBI4.0
Process	
L/A Keep Value (ppm)	10ppm
N2 Flow max (L)	1300L
N2 Flow min (L)	300L
Check Stability Time(s)	N/A
Ready	
L/A Keep Value (ppm)	10ppm
N2 Flow max (L)	1300L
N2 Flow min (L)	300L
Check Stability Time(s)	N/A
	Idle
L/A Keep Value (ppm)	10ppm
N2 Flow max (L)	1300L
N2 Flow min (L)	300L
Check Stability Time(s)	N/A
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L/A O2 check time (min)	N/A
L/A O2 limit (ppm)	10ppm
POD opener O2 limit (ppm)	N/A
POD O2 check time(min)	N/A
POD check retry	N/A

Missing/Damaged Parts List:

None report, please inspect tool to reconfirm









Micron FAB11 APDPBC0D00(LPDE210 30295)





Tool Status

R1 SCS R2 SCS





Robot Status

CHR WHR





Power Supply Brake







TCP/ECP



Supply Gas Status



Gas Flow Panel Status



Heater Status



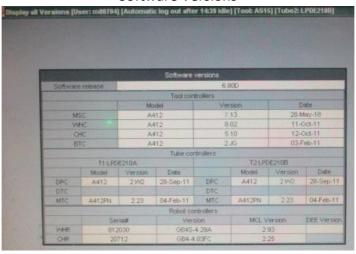
TCF Status



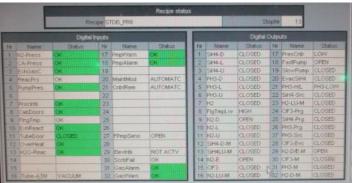
N2 Purge Source Line



Software Versions



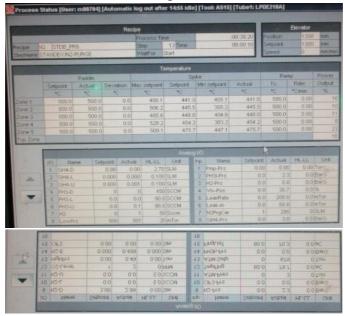
Digital I/O R1



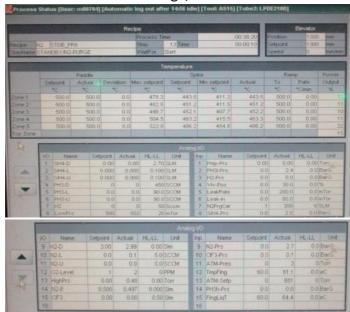
Digital I/O R2



Analog I/O R1

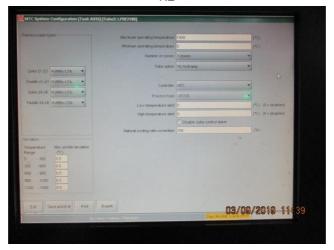


Analog I/O R2

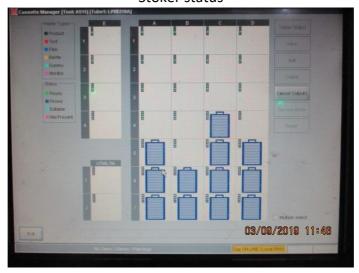


Temprature control system MTC

R2



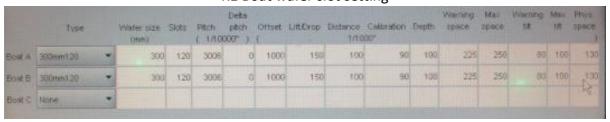
Stoker status



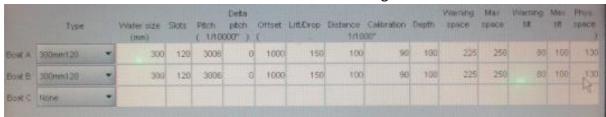
Motion part control status



Boat setting status R1 Boat wafer slot setting



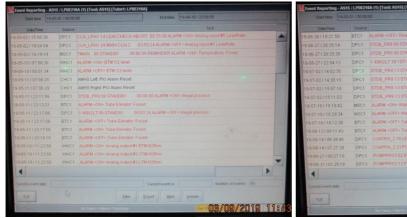
R2 Boat wafer slot setting

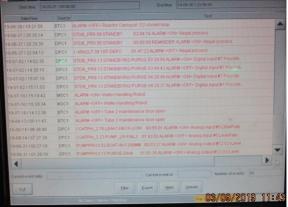


Alarm log

R1 alarm log by 3 month

R1 alarm log by 3 month

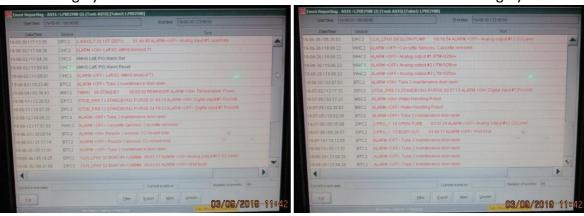




Alarm log

R2 alarm log by 1 month

R2 alarm log by 1 month



PTW ASIA PTE LTD



All Equipment is offered subject to prior sale. This item will be quoted based upon specific terms and configuration required. Interested parties may contact PTW Asia Pte Ltd at:

ask@ptwsingapore.com

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