

PTW ASIA PTE LTD

ASM International A412 Doped Poly		
Vertical LF	PCVD Furnace	
Manufacturer	ASM	
Model	A412	
Product Description	Vertical LPCVD Furnace	
Year of Manufacture	TBD	
Serial Number	30294	
Software version	6.80C	
Heater Type	MRL	
Loader configuration, 4 or 5 loader - 4		
Quartzware Configuration		
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 Lin	e 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		
closed/open,plunger, diaphragm	Normally open, plunger 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	
Conti	rol 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	

BAEC10	NI/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	
Pr	ocess	
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	
L/A O2 check time (min)	N/A	
L/A O2 limit (ppm)	10ppm	
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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







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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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