

PTW(CTF)

**ASM International A412
Vertical Atmospheric
Furnace *Serial Number 30127***

MFG Date: TBD

EQUIPMENT DETAILS:

Labeled as Collateral asset.

Tool & Auxillary Settings:

Vendor - ASM

Tool Model - A412

Software version - 5.9 (MSCII)

Heater Type - MRL (LP < 950 degree) (DTC)

CHR robot: Genmark GB4CT

WHR robot : Genmark GB4

Flange coolant system :TCU (Glycol oil)

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

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Vent Valve 1 (VV1) normally closed/open,plunger, diaphragm - Normally open,plunger

Check valve model - Fujikin

Check valve resistance pressure - 2.26 Kpa

Mainvalve type, Kitz or CKD - MKS

Pressure control : MKS throttle valve

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

C - 0.7/0.7/30S

CL - 0.7/0.7/30S

L - 0.7/0.7/30S

Pressure (Low Alarm Limit(Torr)/High Alarm Limit(Torr)/Check Time(S)) - 0.02/0.02/30S MFC

(Low Alarm Limit(%)/High Alarm Limit(%)/Check Time(S))

MFC01 - SiH₂Cl₂:200sccm 2%/2%/10sec

MFC02 - N₂: 100 sccm 2%/2%/10sec

MFC03 - N₂: 20 SLM 2%/2%/10sec

MFC04 - N₂: 2 SLM 2%/2%/10sec

MFC05 - O₂: 5 SLM 2%/2%/10sec

MFC06 - H₂: 5 SLM 2%/2%/10sec

MFC07 - N₂O: 500 sccm 2%/2%/10sec

MFC08 - NH₃: 2 SLM 2%/2%/10sec

MFC09 - NH₃: 200 sccm 2%/2%/10sec

MFC14 - N/A

MFC15 - N/A

MFC16 - N/A

MFC17 - N/A

MFC18 - N/A

MFC19 - N/A

MFC20 - N/A

MFC21 - N/A

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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

Loadlock Settings:

Loadlock configuration

O2 analyser model :PBI3.1 / PBI4.0 (Zirox)

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

POD opener O2 limit (ppm) - N/A

POD O2 check time(min) - N/A

POD check retry - N/A