

**CTF Equipment Trading on behalf of
Micron Technology Taiwan, Inc.**

**ASM International A412
Vertical Atmospheric
Furnace *Serial Number 30350***

MFG Date: TBD

EQUIPMENT DETAILS:

Labeled as Collateral asset.

Tool & Auxillary Settings:

Vendor - ASM

Tool Model - A412

Software version - 6.80C (MSCIII)

Heater Type - MRL (LP < 800 degree) (MBPTC)

CHR robot: Genmark GB4CT

WHR robot : Genmark GB4S

UTM/LTM : electronic control

Flange coolant system :TCF (Galdan oil)

Quartzware Configuration:

Outer tube - Quartz

Inner tube - Quartz

Boat - SiC boat

Boat fix ring/Cap quartz - Quartz

Back N2, Qty - N/A

SiH4, Qty & Type - Multihole (1) U/D/L

H2, Qty & Type -

PH3, Qty & Type - Multihole (1) U/D/L

ClF3, Qty & Type -

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 - N2:100sccm 2%/2%/10sec

MFC02 - N2: 100sccm 2%/2%/10sec

MFC03 - N2: 20SLM 2%/2%/10sec

MFC04 - N2: 20LM 2%/2%/10sec

MFC05 - SiH4: 1SLM 2%/2%/10sec

MFC06 - SiH4: 1SLM 2%/2%/10sec

MFC07 - SiH4: 3SLM 2%/2%/10sec

MFC08 - 4%H2/N2: 500sccm 1%/1%/10sec

MFC09 - 5%PH3/N2: 500 sccm 2%/2%/10sec

MFC10 - 5%PH3/N2: 100 sccm 2%/2%/10sec

MFC11 - 5%PH3/N2: 100 sccm 2%/2%/10sec

MFC12 - CIF3: 5 SLM 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

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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