



Mattson Aspen II
ICP System, 8"

MATTSON Endpoint detection system
With fixed filters: 430 and 520
Cable length: 19 ft
(3) RF Cables and signal cables
(2) Heaters
MFC

Chambers:

Back chamber:
366 MHz CPU: Analog in and PCB out
Floppy Disk Drive (FDD): DI/DO Cards
Chassis: Power supply
Gas channel: Bottom feed channel
Cool down station: No water cooling
Gas lines

Right chamber:

366 MHz CPU: SEC II Card
Floppy Disk Drive (FDD): Robot stepper (SMC-PC3)
Chassis: Backing plain
Gas channel: Junction box
Cool down station: Lexan plates
Gas lines with filters

Front end:

26" Opening with separate operator interface
4-Color light tower
Operator / Engineering monitor: TFT Design monitor
Gas box with sub frames
EMO Buttons
Interlock circuit: Push button switches
Hanging panels

Load lock:

Single load lock
(2) Cassette stations
Capability of queuing lots
Pin search assembly: Proximity sensors
Load lock seal: Lip seal
Platform and cassette:
(4) 25-Slot cassettes
Rotating cassette nests, 8"
Cool down station: Flat cool down station without water lines
Load lock fast exchange

Transfer robot:

Main robot: 3-Axis robot with flex cable
Robot arm: (4) Adjustable paddles with standard arm
Slit door
Wafer sensors: Paddles, front and rear cassettes
Shuttle: 26"

Process module:

Chamber right and back:
Tube type: Quartz tube
Standard process window
ICP Chamber O-ring type: Fluorosilicon
Temperature controller: WATLOW 988 / EZ Zone
Thermal couples: Spring loaded TC
Lift pin assembly
Grids / Guide rings: Extended guide ring
Electrical feed through
Manifold and ceramic parts
Isolation valve
Top plate
Load lock
Chamber

Pressure controller:

VAT Valve pressure controller
Chamber manometer: 10 Torr
Load lock manometer: 100 Torr
Shuttle manometer: 1000 Torr

RF / MW System:

RF System: Top RF 13.56 MHz
(3) RFPP10 RF Generators: (2) Power cables missing
TRAZER AMU 10D-2 RF Top match, P/N: 914-92003-00: (2) Vacuum capacitors missing
Re-silvered RF coils
(125) RF Vacuum caps: 100PF

AC Box: 2-3 Phase generators with safety cover
DC Box

Gas system:

Gas VCR gasket: Stainless steel and Nickel

Gas line / Gas / Range

Gas 1 / O₂ / 1000 SCCM
Gas 2 / N₂ / 1000 SCCM
Gas 3 / N₂/H₂ (4%) / 2000 SCCM
Gas 4 / CF₄ / 100 SCCM

Side:

Gas 1 / O₂ / 5 SLM
Gas 2 / N₂ / 1 SLM
Gas 3 / CF₄ / 200 SCCM

Gas 4 / O2 / 1 SLM

Rear:

Gas 1 / O2 / 10 SLM

Gas 2 / N2 / 1 SLM

Gas 3 / CF4 / 200 SCCM

Gas 4 / O2 / 1 SLM.