

Novellus C2 Dual Altus Standard System**Wafer Specification**

Wafer Size 200mm

Chamber Type

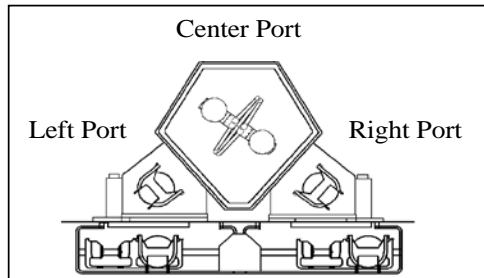
DLCM	Standard
S/N	Not available
Warehouse Location:	F-X-16-1
Process Module A	Standard
S/N	00-32-C26010
Warehouse Location:	F-E-1-1
Process Module B	Standard
S/N	Not available
Warehouse Location:	F-D-1-1

Module Location (Center Port recommended for location of Single Altus):Module A

Center Port (Default)
Left Port
Right Port

Module B

Center Port
Left Port
Right Port



User Interface (UI): 95-52-5124

PCU : DUAL ALTUS - SX13872
Location: F-W-21-1

Mainframe Options

System Controller	MC3 P/N 02-343310-00
Signal Tower	None
AC power rack	Standard PCU - Part # 2048 DUAL ALTUS
Interconnect cables	Not Available

DLCM

Transfer Robot Type	Brooks MTR 5 ASSYMETRIC ARMSET (SINGLE ARM)
Paddle Type	Standard
Shuttle Type	Standard
Cassette Type	Unknown
Indexer Type	Type II
Animatics Type	Missing
Cool Station	3-Shelf
SMIF loader type	None
Manometer	100 Torr
Facilities Configuration	Either
Control System	QNX4 unknown IOS
Leak Check Shutoff Valve	Missing
Pump Electrical Interface	None

Altus Process Module A		F-E-1-1												
S/N: 00-32-C26010														
Controller type	NONE													
Gate valve	Internal Non-Heated													
Throttle valve	Internal Non-Heated													
Process Manometer	100 Torr Non-Heated													
Heater Pedestals	Missing													
Shower Heads	Missing													
* MOER Rings	No Rings; Has ceramic ring plate													
Spindle Assy. Seal Type	Standard													
X-Y Centering Station	Yes													
Viewport Window	Missing													
RF Match	Trazar													
RF High Frequency Generator	Missing													
Endpoint detection	Yes; Computer only, no sensor													
Facility Connections	Rear of chamber													
<table border="1"> <thead> <tr> <th>Gas Box</th> <th>A</th> <th>F-E-1-1</th> </tr> </thead> <tbody> <tr> <td>Gas Channels</td> <td colspan="2">10 Gas</td> </tr> <tr> <td>MFC Type</td> <td colspan="2">Missing all MFC's</td> </tr> <tr> <td>Valves</td> <td colspan="2">Missing most valves</td> </tr> </tbody> </table>			Gas Box	A	F-E-1-1	Gas Channels	10 Gas		MFC Type	Missing all MFC's		Valves	Missing most valves	
Gas Box	A	F-E-1-1												
Gas Channels	10 Gas													
MFC Type	Missing all MFC's													
Valves	Missing most valves													

Altus Process Module B		F-D-1-1																															
S/N: Not available																																	
Controller type	Missing																																
Gate valve	Internal Non-Heated																																
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MFC size and location As the table below																																	
<table border="1"> <thead> <tr> <th>Channel</th> <th>Gas</th> <th>Flow (SLM)</th> <th rowspan="9"> UNIT & STEC MFC's FOR 9 CHANNEL 1991 VINTAGE GASBOX </th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Argon</td> <td>2 SLM</td> </tr> <tr> <td>2</td> <td>Sih4</td> <td>50 sccm</td> </tr> <tr> <td>3</td> <td>Hydrogen</td> <td>10 SLM</td> </tr> <tr> <td>4</td> <td>Argon</td> <td>10 SLM</td> </tr> <tr> <td>5</td> <td>Wf6</td> <td>500 sccm</td> </tr> <tr> <td>6</td> <td>C2F6</td> <td>10 SLM</td> </tr> <tr> <td>7</td> <td>Oxygen</td> <td>5 SLM</td> </tr> <tr> <td>8</td> <td>Argon</td> <td>10 SLM</td> </tr> <tr> <td>9</td> <td>Hydrogen</td> <td>10 SLM</td> </tr> </tbody> </table>			Channel	Gas	Flow (SLM)	UNIT & STEC MFC's FOR 9 CHANNEL 1991 VINTAGE GASBOX	1	Argon	2 SLM	2	Sih4	50 sccm	3	Hydrogen	10 SLM	4	Argon	10 SLM	5	Wf6	500 sccm	6	C2F6	10 SLM	7	Oxygen	5 SLM	8	Argon	10 SLM	9	Hydrogen	10 SLM
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DLCM Module		Process Module A		Process Module B	
MISSING ITEMS	INTACT ITEMS or PRESENT ITEMS	MISSING ITEMS	INTACT ITEMS or PRESENT ITEMS	MISSING ITEMS	INTACT ITEMS or PRESENT ITEMS
1) Top Plate = 10 %	1) Local Power Box (LPB) = 90 %	1) Spindle - Lift & Rotate Mechanism	1) 5 ea. Pedestals	1) Top Plate = 10 %	1) Local Power Box (LPB) = 90 %
2) GasBox = 3 %	2) X-Y Centering Station	2) Module Controller	2) X-Y Centering Station	2) GasBox = 3 %	2) X-Y Centering Station
3) Chamber = 15 %	3) Throttle Valve Controller	3) IOC's	3) 5 ea. MOER Rings	3) Chamber = 15 %	3) Throttle Valve Controller
4) 5 ea. Showerheads	4) Interlock Board	4) Trazar match	4) 3 ea. Lift Pin Assembly's	4) 5 ea. Showerheads	4) Interlock Board
5) 5 ea. Pedestals	5) Gate Valve	5)	5) 5 ea. Showerheads	5) 5 ea. Pedestals	5) Gate Valve
6) 2 ea. Power Supplies (from LPB)	6) Pneumatic Panel = 100 % FULL	6)	6) 3 ea. Manometers	6) 2 ea. Power Supplies (from LPB)	6) Pneumatic Panel = 100 % FULL
7) Backside gas Pressure Control	7) Spindle Lift & Rotate assembly	7)	7) Local Power Box = 100 % GEN 1	7) Backside gas Pressure Control	7) Spindle Lift & Rotate assembly
8) Panels	8) Ceramic Ring Plate - 2 Tines only	8)	8) Pneumatic Panel GEN 1	8) Panels	8) Ceramic Ring Plate - 2 Tines only
9)	9) Wafer Transfer Wheel - Aluminum	9)	9) Gas Box - 8 Channel GEN 1	9)	9) Wafer Transfer Wheel - Aluminum
10)	10) Endpoint Controller	10)	10) Top Plate = 100 % (valves etc.)	10)	10) Endpoint Controller
11)	11) 3 ea. Lift Pin Assemblies	11)	11) Throttle Valve	11)	11) 3 ea. Lift Pin Assemblies
12)	12)	12)	12) Gate Valve	12)	12)
13)	13)	13)	13) Temp / Pressure Control	13)	13)
14)	14)	14)	14)	14)	14)
15)	15)	15)	15)	15)	15)
16)	16)	16)	16)	16)	16)
17)	17)	17)	17)	17)	17)
18)	18)	18)	18)	18)	18)
19)	19)	19)	19)	19)	19)
20)	20)	20)	20)	20)	20)
21)	21)	21)	21)	21)	21)
COMMENTS:	COMMENTS:	COMMENTS:	COMMENTS:	COMMENTS:	COMMENTS: