



MOOV

Applied Materials Confidential

DCVD SYSTEM SPECIFICATION PRODUCER SPLIT

System Specification 1

System Overview

<u>General Information</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
Customer Name				
Customer Number				
Fab Name				
Unit Number	1			
Fab Region				
Forecast or Order				
Technology	SYSTEM ORDER			
Platform Type	DCVD			
Project Package Number	PRODUCER SPLIT			
Opportunity Number				
Sales Engineer Name				
Sales Engineer Phone Number				
Sales Engineer Pager Number				
Quote/Sales Order Number				

<u>Wafer Specification</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
Wafer Size	300MM (12 INCH)			
Wafer Shape	SNNF			

<u>Chamber Type / Location</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
Position A	(XA) SACVD TWIN			
Position B	(XA) SACVD TWIN			
Position C	(XA) SACVD TWIN			
Position A Process	(02) OXIDE - BPSG			
Position B Process	(02) OXIDE - BPSG			
Position C Process	(02) OXIDE - BPSG			

Producer System

<u>Sales Information</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
Product Delivery Team Contact				
Customer Process Spec (CPS) #				
Customer Application				

Special Test Requirement
 Previous PST Specs or SO Numbers
 KPU
 Application Code

SACVD
 PMD-PMD

Customer Fab Options

<u>Electrical Requirements</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
Line Voltage	200/208 VAC			
Line Frequency	60 Hz			

<u>System Safety Equipment</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
System Labels	ENGLISH WITH CHINESE NON-SIMPLIFIED (T)			

(A) - (XA) SACVD TWIN

<u>SACVD Chamber Components</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
Manometer	DUAL (20/1000 TORR)			
Heater	CERAMIC (WITH RF BASE)			
Blocker	He/He BLOCKER			
Faceplate	23MIL CENTERHOLE			
Ozone Generator	12.5 WT% OZONE			
Throttle Valve	SIGMA PLUG TV WITH INT DRIVE			
Liner	3 PIECE WITH ANODIZED PUMPING CHANNEL			
Isolation Transformer	YES			

(B) - (XA) SACVD TWIN

<u>SACVD Chamber Components</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
Manometer	DUAL (20/1000 TORR)			
Heater	CERAMIC (WITH RF BASE)			
Blocker	He/He BLOCKER			
Faceplate	23MIL CENTERHOLE			
Ozone Generator	12.5 WT% OZONE			
Throttle Valve	SIGMA PLUG TV WITH INT DRIVE			
Liner	3 PIECE WITH ANODIZED PUMPING CHANNEL			
Isolation Transformer	YES			

(C) - (XA) SACVD TWIN

<u>SACVD Chamber Components</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
Manometer	DUAL (20/1000 TORR)			
Heater	CERAMIC (WITH RF BASE)			
Blocker	He/He BLOCKER			
Faceplate	23MIL CENTERHOLE			
Ozone Generator	12.5 WT% OZONE			
Throttle Valve	SIGMA PLUG TV WITH INT DRIVE			
Liner	3 PIECE WITH ANODIZED PUMPING CHANNEL			
Isolation Transformer	YES			

Gas Delivery Options

<u>Gas Panel</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
Mainframe Type	PRODUCER S			
Producer S Mainframe Style	PRODUCER S - SPLIT			
Gas Feed	BOTTOM			

System Cabinet Exhaust	TOP
MFCs	AERA D980 5 RA MAX
Valves	FUJIKIN 5 RA MAX
Filters	MILLIPORE 5 RA
Single Line Drop	YES
Single Line Drop Valve Type	ISOLATION
Regulators	VERIFLO 10 RA
Transducer	MKS 5 RA W/DISPLAY
Display Gas Pallets	YES

Note# 1

<u>(A) - (XA) SACVD Twin Pallet</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
Gas Pallet	(300XA02)			
Line L1	EMPTY			
Line L2	EMPTY			
Line L3	EMPTY			
Line 1	O3 - 30.0SLM			
Line 2	O2 - 30.0SLM			
Line 3	N2 PURGE			
Line 4	NF3 - 5.0SLM			
Line 5	EMPTY			
Line 6	Ar - 5.0SLM			
Line 7	EMPTY			
Line 8	N2 CARRIER - 30.0SLM			
Line 9	He CARRIER - 30.0SLM			
Line 10	N2 PURGE			
Line R3	TEPO - 0.5G/MIN			
Line R2	TEOS - 7.0G/MIN			
Line R1	TEB - 3.0G/MIN			

<u>(B) - (XA) SACVD Twin Pallet</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
Gas Pallet	(300XA02)			
Line L1	EMPTY			
Line L2	EMPTY			
Line L3	EMPTY			
Line 1	O3 - 30.0SLM			
Line 2	O2 - 30.0SLM			
Line 3	N2 PURGE			
Line 4	NF3 - 5.0SLM			
Line 5	Empty			
Line 6	Ar - 5.0SLM			
Line 7	EMPTY			
Line 8	N2 CARRIER - 30.0SLM			
Line 9	He CARRIER - 30.0SLM			
Line 10	N2 PURGE			
Line R3	TEPO - 0.5G/MIN			
Line R2	TEOS - 7.0G/MIN			
Line R1	TEB - 3.0G/MIN			

<u>(C) - (XA) SACVD Twin Pallet</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
Gas Pallet	(300XA02)			
Line L1	EMPTY			
Line L2	EMPTY			
Line L3	EMPTY			
Line 1	O3 - 30.0SLM			
Line 2	O2 - 30.0SLM			
Line 3	N2 PURGE			
Line 4	NF3 - 5.0SLM			
Line 5	EMPTY			
Line 6	Ar - 5.0SLM			
Line 7	EMPTY			
Line 8	N2 CARRIER - 30.0SLM			
Line 9	He CARRIER - 30.0SLM			
Line 10	N2 PURGE			
Line R3	TEPO - 0.5G/MIN			
Line R2	TEOS - 7.0G/MIN			
Line R1	TEB - 3.0G/MIN			

<u>Liquid Source</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
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MFCs
Interlock Kit Type

AERA D980 5 RA MAX
MULTI-PLIS INTERLOCK KIT

Mainframe Options

<u>General Mainframe</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
System Placement Facilities Orientation	STAND ALONE THROUGH THE FLOOR			
<u>Transfer Chamber</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
Slit Valve	SLIT VALVE W/ CHEMRAZ 520 SEAL			
<u>Fab Interface</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
Signal Lamp Tower Signal Lamp Tower Location Signal Lamp Tower Lamp Colors Signal Lamp Tower Lamp Size Maintenance Switch	YES FRONT MOUNTED RED-A-G-B 40MM YES			
<u>Chamber Electronics</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
Chamber A RF Generator 1 Chamber B RF Generator 1 Chamber C RF Generator 1	APEX APEX APEX			

Factory Interface Options

<u>Factory Interface System (300MM)</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
PGV Capability Automated Delivery Capability Three Wide Factory Interface Load Port Types Minienvironment Filter Integrated Metrology E84 Carrier Handoff E84 PI O Sensors and Cables E99 Carrier ID	YES OHT WITH NANO 25 WAFER FOUF STANDARD ULPA FILTER THICKNESS ONLY UPPER E84 INTERFACE ENABLED OHT UPPER E84 SENSORS & CABLES KEYENCE WITH BCR			

Remote Options

<u>Heat Exchanger/Chiller</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
System Heat Exchanger Heat Exchanger Quantity Ozonator Water Recirculator	NESLAB STEELHEAD 0 1 MX500			
<u>System Monitors</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
Monitor Type First Local Monitor Remote Monitor Second Local Monitor	VGA MONITOR WITH LIGHTPEN STAND ALONE STAND ALONE STAND ALONE			
<u>Umbilicals</u>	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
HX and Chiller Umbilicals First Local Monitor Cable Second Local Monitor Cable Pump Cables Remote Monitor Cable	75 FT (68 FT EFFECTIVE) 25 FT (23 FT EFFECTIVE) 50 FT (48 FT EFFECTIVE) 75 FT (68 FT EFFECTIVE) 75 FT (73 FT EFFECTIVE)			

Pumps

	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
Pump Provider	CUSTOMER SUPPLY AT STARTUP			
LL and Transfer Ch Shared Pump	EDWARDS IPX100			
Process Chamber Pump Ch A	EDWARDS iH35SE			
Process Chamber Pump Ch B	EDWARDS iH35SE			
Process Chamber Pump Ch C	EDWARDS iH35SE			

Ozonator Rack

	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
In Line Monitor	API			

Service Options

System Inspection/Shipping

	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
Source Inspection	8-HOUR FUNCTIONAL			
Triple Bagging	ANTI-STATIC PINK POLYETHYLENE			

Training

	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
Standard 15K Training Credit	YES			

Warranty/Service

	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
Standard Warranty	12 MONTHS OR 90 DAYS FROM SHIPMENT			

Additional Options

System Manuals

	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
Standard Manuals	1			
Cleanroom Manuals	1			

Additional Items

	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
Calibration Tools	YES			
Integrated Metrology Cal Tool	YES			
System Spares	YES			

System Spares

	<u>Selected Option</u>	<u>Part# or NSR#</u>	<u>Part or NSR Description</u>	<u>Note #</u>
Spares Format: 1234-56789				

Spares 1 Number	0040-03439
Spares 1 Description	Shower Head
Spares 1 Quantity	6

Spares 2 Number	0021-07271
Spares 2 Description	Blocker Plate
Spares 2 Quantity	6

Note Summary

<u>Note #</u>	<u>Note</u>
Note# 1	This D980 model varies from various range of flow rate.