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SPEC ID = 2047492, SPEC CTR = 11.
 For reference only. For latest spec, refer to database.
 Shaded and strikethrough items will be altered by NSR listed.
 Non-default items are italicized.

**DCVD SYSTEM SPECIFICATION
 PRODUCER SPLIT**

Spec Information

Spec Information

Specification Title
 Specification Revision
 Specification Filter Date
 Date Last Modified
 Last Modified by
 Operational Status Config-Frozen [DCVD]

System Specification 1

System Overview

<u>General Information</u>	<u>Selected Option</u>	<u>Part# or</u> <u>■■■■■</u>	<u>Part or NSR Description</u>	<u>Note #</u>
Customer Name				
Customer Number				
Fab Name				
Unit Number				
Fab Region				
Forecast or Order	SYSTEM ORDER			
Technology	DCVD			
Platform Type	PRODUCER SPLIT			
Project Package Number				
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</u> <u>■■■■■</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</u> <u>■■■■■</u>	<u>Part or NSR Description</u>	<u>Note #</u>
Equipment Integration Module	■■■			
Process Integration Module	■■■			
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</u> <u>■■■■■</u>	<u>Part or NSR Description</u>	<u>Note #</u>
Product Delivery Team Contact	Colman Chan x38339 MICHELLE MAPP #87477			

Customer Process Spec (CPS) #
 Customer Application
 Special Test Requirement
 Previous PST Specs or SO
 Numbers
 KPU
 Application Code

||||
 PMD-PMD

Customer Fab Options

<u>Electrical Requirements</u>	<u>Selected Option</u>	<u>Part# or</u> <u> </u>	<u>Part or NSR Description</u>	<u>Note #</u>
Line Voltage	200/208 VAC			
Line Frequency	60 Hz			
AMAT Provided Transformer	NOT AVAILABLE			

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

(A) - (XA) SACVD TWIN

<u>SACVD Chamber</u> <u>Components</u>	<u>Selected Option</u>	<u>Part# or</u> <u> </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 			
Liner	3 PIECE WITH ANODIZED PUMPING CHANNEL			
Isolation Transformer				

(B) - (XA) SACVD TWIN

<u>SACVD Chamber</u> <u>Components</u>	<u>Selected Option</u>	<u>Part# or</u> <u> </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 			
Liner	3 PIECE WITH ANODIZED PUMPING CHANNEL			
Isolation Transformer				

(C) - (XA) SACVD TWIN

<u>SACVD Chamber</u> <u>Components</u>	<u>Selected Option</u>	<u>Part# or</u> <u> </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 			
Liner	3 PIECE WITH ANODIZED PUMPING CHANNEL			
Isolation Transformer				

Gas Delivery Options

<u>Gas Panel</u>	<u>Selected Option</u>	<u>Part# or</u> <u> </u>	<u>Part or NSR Description</u>	<u>Note #</u>
Mainframe Type	PRODUCER S			
Producer S Mainframe Style	PRODUCER S - SPLIT			
Gas Feed				
System Cabinet Exhaust	TOP			
MFCs	AERA D980 5 RA MAX			Note# 1
Valves	FUJIKIN 5 RA MAX			
Filters	MILLIPORE 5 RA			
Single Line Drop				
Single Line Drop Valve Type	ISOLATION			
Regulators	VERIFLO 10 RA			
Transducer	MKS 5 RA WDISPLAY			
Third Ch SLD Enclosure	NOT APPLICABLE			
Exhaust Switching Interface				
Exhaust SW Facilities Intlk	NOT APPLICABLE			
Facilities or Scrubber Intf	NONE			
Facilities Interlock Indicator				
Interface Output	NOT APPLICABLE			
PLIS Parallel With Divert				
Display Gas Pallets				

<u>(A) - (XA) SACVD Twin Pallet</u>	<u>Selected Option</u>	<u>Part# or</u> <u> </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</u> <u> </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</u> <u> </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</u> <u> </u>	<u>Part or NSR Description</u>	<u>Note #</u>
MFCs	AERA D980 S RA MAX			
DTLR Type	NONE			
ATMI 3 CHEM DTLR	NOT APPLICABLE			
TEOS DTLR	NOT APPLICABLE			
TEB DTLR	NOT APPLICABLE			
TEPO DTLR	NOT APPLICABLE			
Interlock Kit Type	MULTI-PLUS INTERLOCK KIT			

Mainframe Options

<u>General Mainframe</u>	<u>Selected Option</u>	<u>Part# or</u> <u> </u>	<u>Part or NSR Description</u>	<u>Note #</u>
System Placement	STAND ALONE			
Facilities Orientation	THROUGH THE FLOOR			
Mylar Facilitization Template				
Mainframe Feet Baseplate	NOT APPLICABLE			
Mainframe Skins	NOT APPLICABLE			

<u>Transfer Chamber</u>	<u>Selected Option</u>	<u>Part# or</u> <u> </u>	<u>Part or NSR Description</u>	<u>Note #</u>
RGA Port	NONE			
Slit Valve	SLIT VALVE W/ CHEMRAZ 520			

<u>Fab Interface</u>	<u>Selected Option</u>	<u>Part# or</u> <u> </u>	<u>Part or NSR Description</u>	<u>Note #</u>
Signal Lamp Tower				
Signal Lamp Tower Location	FRONT MOUNTED			
Signal Lamp Tower Lamp Colors	RED-A-G-B			
Signal Lamp Tower Lamp Size				
RF On Indicator	NOT APPLICABLE			
Additional RF On Lamp	NOT APPLICABLE			
RF On Indicator Lamp Color	NOT APPLICABLE			
Maintenance Switch				

<u>System Controller</u>	<u>Selected Option</u>	<u>Part# or</u> <u> </u>	<u>Part or NSR Description</u>	<u>Note #</u>
Controller UPS	NONE			

<u>Chamber Electronics</u>	<u>Selected Option</u>	<u>Part# or</u> <u> </u>	<u>Part or NSR Description</u>	<u>Note #</u>
Chamber A RF Generator 1	APEX			
Chamber A RF Generator 2	NONE			
Chamber B RF Generator 1	APEX			
Chamber B RF Generator 2	NONE			
Chamber C RF Generator 1	APEX			
Chamber C RF Generator 2	NONE			

Factory Interface Options

<u>Factory Interface System (300MM)</u>	<u>Selected Option</u>	<u>Part# or</u> <u> </u>	<u>Part or NSR Description</u>	<u>Note #</u>
PGV Capability	I			
Automated Delivery Capability	OHT			
Three Wide Factory Interface	WITH NANO			
Bay Distributed Stocker	NONE			
Docked E99 Reading Capability	I			
Load Port Types	25 WAFER FOUF			
Docking Flange Shield	I			
Minienvironment Filter	STANDARD ULPA FILTER			
Integrated Metrology	THICKNESS ONLY			
E84 Carrier Handoff	UPPER E84 INTERFACE ENABLED OHT			
E84 PI O Sensors and Cables	UPPER E84 SENSORS & 			
OHT Light Curtain	NONE			
E99 Carrier ID	KEYENCE WITH BCR			
Operator Access Switch	I			

Remote Options

<u>Heat Exchanger/Chiller</u>	<u>Selected Option</u>	<u>Part# or</u> <u> </u>	<u>Part or NSR Description</u>	<u>Note #</u>
System Heat Exchanger	NESLAB STEELHEAD 0			
Heat Exchanger Quantity	1			
Ozonator Water Recirculator	I			

<u>System Monitors</u>	<u>Selected Option</u>	<u>Part# or</u> <u> </u>	<u>Part or NSR Description</u>	<u>Note #</u>
Monitor Type	VGA MONITOR WITH LIGHTPEN			
First Local Monitor	STAND ALONE			
TTW Monitor Placement	NOT APPLICABLE			
Remote Monitor	STAND ALONE			
Second Local Monitor	STAND ALONE			
First Local Monitor Cart Size	NONE			
Second Local Monitor Cart Size	NONE			
Remote Monitor Cart Size	NONE			
System Printer	NONE			

<u>Umbilicals</u>	<u>Selected Option</u>	<u>Part# or</u> <u> </u>	<u>Part or NSR Description</u>	<u>Note #</u>
HX and Chiller Umbilicals	75 FT (68 FT EFFECTIVE)			
First Local Monitor Cable	25 FT (23 FT EFFECTIVE)			
Second Local Monitor Cable	50 FT (48 FT EFFECTIVE)			
Pump Cables	75 FT (68 FT EFFECTIVE)			
Remote Monitor Cable	75 FT (73 FT EFFECTIVE)			
DPA Generator Rack Cables	NOT APPLICABLE			

<u>Pumps</u>	<u>Selected Option</u>	<u>Part# or</u> <u> </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 iH3SSE			
Process Chamber Pump Ch B	EDWARDS iH3SSE			
Process Chamber Pump Ch C	EDWARDS iH3SSE			

<u>HAPS Abatement</u>	<u>Selected Option</u>	<u>Part# or</u> <u> </u>	<u>Part or NSR Description</u>	<u>Note #</u>
HAP Scrubber	NONE			
Edwards Abatement Power	NOT APPLICABLE			

<u>Ozonator Rack</u>	<u>Selected Option</u>	<u>Part# or</u> <u> </u>	<u>Part or NSR Description</u>	<u>Note #</u>
In Line Monitor	API			
Ozone Destruct Unit	I			

Service Options

<u>System Inspection/Shipping</u>	<u>Selected Option</u>	<u>Part# or</u> <u> </u>	<u>Part or NSR Description</u>	<u>Note #</u>
Source Inspection Triple Bagging	8-HOUR FUNCTIONAL ANTI-STATIC PINK POLYETHYLENE			
<u>Training</u>	<u>Selected Option</u>	<u>Part# or</u> <u> </u>	<u>Part or NSR Description</u>	<u>Note #</u>
Standard 15K Training Credit Addl Trng Credit Amt in K	 0			
<u>Warranty/Service</u>	<u>Selected Option</u>	<u>Part# or</u> <u> </u>	<u>Part or NSR Description</u>	<u>Note #</u>
Standard Warranty	12 MONTHS OR 90 DAYS FROM SHIPMENT			

Additional Options

<u>System Manuals</u>	<u>Selected Option</u>	<u>Part# or</u> <u> </u>	<u>Part or NSR Description</u>	<u>Note #</u>
Standard Manuals	1			
Cleanroom Manuals	1			
<u>Additional Items</u>	<u>Selected Option</u>	<u>Part# or</u> <u> </u>	<u>Part or NSR Description</u>	<u>Note #</u>
Calibration Tools				
Microclean Cal Tools	NOT APPLICABLE			
AE RFG 2000 Cal Kit	NOT APPLICABLE			
Elec Heater Leveling Tool	NOT APPLICABLE			
Heater Centering Tool	NOT APPLICABLE			
SMIF 200 Cal Tools	NOT APPLICABLE			
Front End Teach Pendant	NOT APPLICABLE			
Clear Chamber Lid	NOT APPLICABLE			
Integrated Metrology Cal Tool				
FI Align and Level Tool Kit				
FI Service Lift				
BDS Leveling and Calib Tools				
First in Fab Low k RF Cal Kit	NOT APPLICABLE			
System Spares				
<u>System Spares</u>	<u>Selected Option</u>	<u>Part# or</u> <u> </u>	<u>Part or NSR Description</u>	<u>Note #</u>
Spares Format: 1234-56789 Must be in Item Master and Price Master or export/import to Oracle will fail.				
Spares 1 Number				
Spares 1 Description	Shower Head			
Spares 1 Quantity				
Spares 2 Number	0021-07271			
Spares 2 Description	Blocker Plate			
Spares 2 Quantity				

Note Summary

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

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Attachments

The specification does not contain any attachments.