

## VSS-300 Options and accessories

No.	Options:	
	<b>Additional process gas lines:</b>	
1	VSS-MFC-Ar-2nlm	Additional process gas line for Argon (Ar) gas controlled by MFC
2	VSS-MFC-O2-2nlm	Additional process gas line for Oxygen (O <sub>2</sub> ) gas controlled by MFC
3	VSS-MFC-FG-2nlm	Additional process gas line for Forming Gas (max. 10% H <sub>2</sub> /N <sub>2</sub> ) gas controlled by MFC
	<b>Formic acid module and trap:</b>	
4	FA II	Upgrade with integrated formic acid module with individually controlled process gas line
5	FA III	Upgrade with integrated formic acid module (process gas line shared with base VSS system)
6	FA-T	Trap for formic acid vapors
7	FA-T-2	
	<b>Flux options:</b>	
8	VSS-FluxHeat	
9	VSS-FT	Flux trap
10	VSS-FT-2	Flux trap
	<b>Height and lift pins options:</b>	
11	VSS-EH	Extended chamber height up to 120 mm
12	VSS-LiftPins	Upgrade with Lift pins for lifting up of single wafer (150 mm, 200 mm or 300 mm diameter)
	<b>Hydrogen gas options</b>	
13	H2	Hydrogen option for use of pure hydrogen gas (100% H <sub>2</sub> )
14	H2S	Safety hood
	<b>Additional thermocouples:</b>	
15	TC I	Upgrade with additional (flexible) thermocouple (not connected to process control, for external data logging)
16	TC II	additional thermocouple to measure on device (plugged in chamber); for external measurement tool (max. 4 pcs)
	<b>Vacuum options (not including vacuum pumps):</b>	
17	VAC I	Vacuum basic up to 3 hPa incl. vacuum sensor and valve
18	VAC II	Vacuum comfort up to 10-3 hPa incl. vacuum sensor and valve
	<b>Interfaces:</b>	
19	VSS-RC	Remote control of top cover opening and closing, including connection to safety of external cabinet
20	VSS-SI	Serial interface between VSS system and external PC using USB 2.0 port and through USB 2.0 cable
	<b>Measurement options:</b>	
21	MM	Moisture measurement
22	OxAtAn	Atmospheric oxygen analyser
	<b>Other options:</b>	
23	CAB	Cabinet with integrated Universal Heat Exchanger (UHE)
24	PT	Upgrade with 3 colors pat light
25	VSS-QP	Additional quartz glass plate at top
26	VCR	Tubing made of VCR (welded)
	<b>Accessories (vacuum pumps, chiller):</b>	
27	MP	Membrane/diaphragm pump (not chemically resistant)
28	MPC	Chemically resistant membrane/diaphragm pump
29	RVP	Rotary vane pump for vacuum up to 10exp.-3 with oil filter
30	WC III	Closed loop water cooling system