

FEATURES	ET101	ET2000	ET3000	ET3000EXT	ET6000
<b>Maximum Substrate Area</b>	25 mm x 50 mm	50 mm x 50 mm	100 mm x 100 mm (opt. wafer boat)	150 mm x 150 mm (opt. wafer boat)	200 mm diameter (wafer boat up to 100)
<b>CVDWinPrC™ Process Control</b>	✓	✓	✓	✓	✓
<b>Safety System</b>	✓	✓	✓	✓	✓
<b>Exhausted Metal Enclosure</b>	✓	✓	✓	✓	✓
<b>Mass Flow Controlled Gas Lines</b>	Up to 8	Up to 8	Up to 12	Up to 16	6 per tube
<b>External Vapor Delivery System (eg. bubbler)</b>	Up to 3	Up to 3	Up to 4	Up to 4	1 per tube
<b>Internal Vapor Delivery System</b>	N/A	Optional	Optional	Optional	Optional
<b>Air to Water Heat Exchanger</b>	N/A	Optional	Optional	Optional	Optional
<b>Process Support Demo (CVD Lab or On-site)</b>	Optional	Optional	Optional	Optional	Optional
<b>Factory Training</b>	✓	✓	✓	✓	✓
<b>On-Site Startup Assistance</b>	✓	✓	✓	✓	✓
<b>Heating:</b>					
Resistance Hotwall 1100 °C	✓	✓	✓	✓	✓
Resistance Hotwall 1200 °C	Optional	Optional	Optional	Optional	Optional
Rolling Resistance Furnace	N/A	N/A	N/A	Optional	N/A
Infrared Coldwall 1100 °C	N/A	Optional	Optional	Optional	N/A
Substrate Heater Coldwall 400 °C (for PECVD)	N/A	Optional	N/A	N/A	N/A
Substrate Heater Coldwall up to 2200 °C	N/A	N/A	Optional	Optional	N/A
RF Induction Coldwall > 1500 °C	N/A	N/A	Optional	Optional	N/A
<b>Vacuum:</b>					
None (ATM operation)	✓	✓	✓	✓	✓
Wet Pump (Fomblin Prepared)	Optional	Optional	Optional	Optional	Optional
Dry Pump	Optional	Optional	Optional	Optional	Optional
High / Ultra-High Vacuum	Optional	Optional	Optional	Optional	Optional
<b>Plasma</b>	N/A	Optional	Optional	Optional	N/A
<b>Remote Upstream Plasma</b>	N/A	N/A	Optional	Optional	N/A
<b>DC Substrate Bias</b>	N/A	Optional	Optional	Optional	N/A
<b>Wafer Rotation</b>	N/A	Optional	Optional	Optional	N/A
<b>Loadlock</b>	N/A	N/A	N/A	Optional	N/A
<b>Glovebox</b>	N/A	N/A	Optional	Optional	N/A
<b>Residual Gas Analyzer</b>	Optional	Optional	Optional	Optional	Optional
<b>Air Pump</b>	Optional	Optional	Optional	Optional	Optional
<b>System Size (W x L x H)</b>	40" x 49" x 60"	30" x 64" x 60"	33" x 96" x 70"	40" x 119"+ x 70"	43" x 118" x 90"

PROCESSES	ET101	ET2000	ET3000	ET3000EXT	ET6000
<b>Carbon Nanotubes</b>	✓	✓	✓	✓	✓
<b>Graphene</b>	✓	✓	✓	✓	N/A
<b>2D Materials (TMDs, h-BN, etc)</b>	✓	✓	✓	✓	✓
<b>Semiconducting Nanowires (Si, Ge, ZnO, GaN, etc)</b>	✓	✓	✓	✓	✓
<b>Transparent Conductive Oxide (SnO:F, ZnO:B, etc)</b>	✓	✓	✓	✓	N/A
<b>Epitaxial Deposition</b>	✓	✓	✓	✓	N/A
<b>Atmospheric Pressure CVD (APCVD)</b>	✓	✓	✓	✓	✓
<b>Low Pressure CVD (LPCVD)</b>	✓	✓	✓	✓	✓
<b>Metal Organic CVD (MOCVD)</b>	✓	✓	✓	✓	✓
<b>Plasma Enhanced CVD (PECVD, PACVD, ICP-CVD)</b>	N/A	✓	✓	✓	N/A
<b>Rapid Thermal Processing ( RTP )</b>	N/A	✓	✓	✓	N/A
<b>Chemical Vapor Infiltration (CVI)</b>	✓	✓	✓	✓	✓
<b>Fluidized Bed CVD (FBCVD, FBR)</b>	N/A	✓	✓	✓	N/A
<b>Atomic Layer Deposition (ALD)</b>	✓	✓	✓	✓	N/A
<b>Dry Oxidation</b>	N/A	N/A	✓	✓	✓
<b>Wet Oxidation</b>	✓	✓	✓	✓	✓
<b>Pyrogenic Oxidation</b>	N/A	N/A	N/A	✓	✓
<b>Diffusion</b>	✓	✓	✓	✓	✓
<b>Silicon Nitride</b>	✓	✓	✓	✓	✓
<b>Polysilicon</b>	✓	✓	✓	✓	✓
<b>Silicon Dioxide</b>	✓	✓	✓	✓	✓
<b>Annealing</b>	✓	✓	✓	✓	✓



All systems include CVDWinPrC™ system control software, comprehensive software and hardware safety interlocks, preprogrammed process recipes, and startup support. Other configurations available, consult factory for details.