

Gas Source Delivery Solutions

- **Efficient, safe means of controlling gases for Veeco MBE gas sources**
- **Easy process manipulation and monitoring using Molly Growth Control Software**
- **Compatible with all MBE systems integrated with ECS1 Version of Molly Growth Control Software**

Description

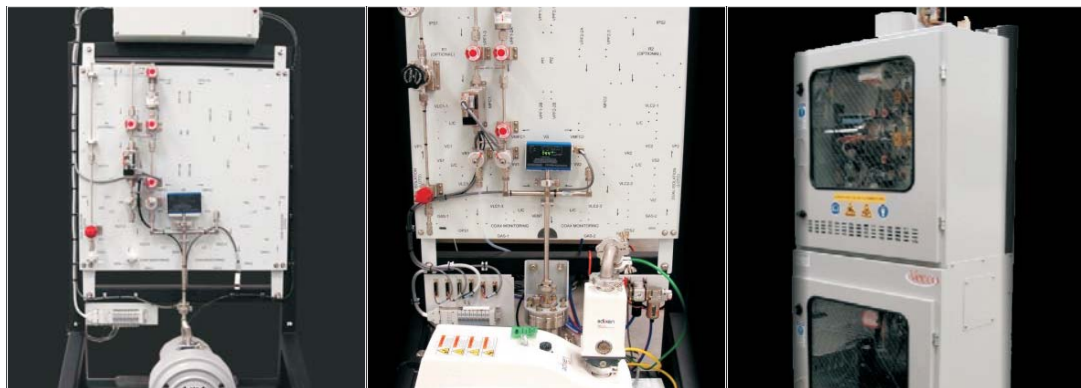
Veeco's Gas Source Delivery System (GSDS) provides precise control of gases, interlocks and monitoring for inert, hazardous and flammable gases. Molly® ECS1 Growth Control Software provides for easy integration to your existing system.

The Veeco GSDS is available in three model designs to accommodate different applications, and budgets. Model options include one circuit or two, scroll or turbo vent pumping, in varying panel or cabinet configurations.

All GSDS packages are inclusive of:

- Manual gas line shut off valve for each circuit
- Gas filter/purifier
- Mass flow controller
- Pneumatically controlled run and vent valves

GSDS Model Specifications



Model	GSDS-100	GSDS-300	GSDS-500
Gas	Inert	Inert	Inert, hazardous, flammable
Number of Gas Circuits	One or two	One or two	Up to four (maximum of two hazardous/flammable with up to two inert)
Vent Pump	Scroll	Turbo and scroll	Turbo and scroll
Exhaust	No exhaust requirement for inert gases	No exhaust requirement for inert gases	<ul style="list-style-type: none"> • 6"/152mm sheet metal duct • 325scfm for hazardous source gases • 90scfm for flammable source gases • No exhaust requirement for inert gases
Sprinkler	None	None	<ul style="list-style-type: none"> • Requires 0.5"/13mm male NPT connection • 31gal/min @ 30psi
Coaxial Jacket Pressure	N/A	N/A	20-30psi inert gas recommended at 24°C (75°F)
Controller	Panel Integrated	E-rack mountable GSDS-II Controller	E-rack mountable GSDS-II Controller
Configuration	Panel	Panel	Cabinet
Upgradeable	No	No	Yes
Gas Supply Interlocks	No	Yes	Yes
Gas Regulator	No	Yes	Yes
Interlocks	<ul style="list-style-type: none"> • Vent vacuum • Growth module pressure 	<ul style="list-style-type: none"> • Gas supply low pressure • Vent vacuum • Growth module pressure 	<ul style="list-style-type: none"> • Gas supply low pressure • Vent vacuum • Growth module pressure • IV-IR flame detection • Local exhaust • Hazardous coaxial gas delivery line leak • Enclosure door closed
Options		<ul style="list-style-type: none"> • Gas supply regulator for each circuit • N₂ purge gas circuits for gas lines and turbo purge 	<ul style="list-style-type: none"> • Gas supply regulator for each circuit • N₂ purge gas circuits for gas lines and turbo purge
Standard			<ul style="list-style-type: none"> • Gas line leak check ports • Purifiers • Purifier isolation valves • Complete enclosed gas circuits with local exhaust
Communications Protocol	Modbus TCP/IP over Ethernet		



Innovation. Performance. Brilliant.

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