

ALD150LX™

Atomic Layer Deposition System



Kurt J. Lesker®
Company

PROCESS EQUIPMENT™
DIVISION

Applications

- University, industrial and government lab R&D
- Semiconductor
- Photovoltaics
- OLED/organic electronics

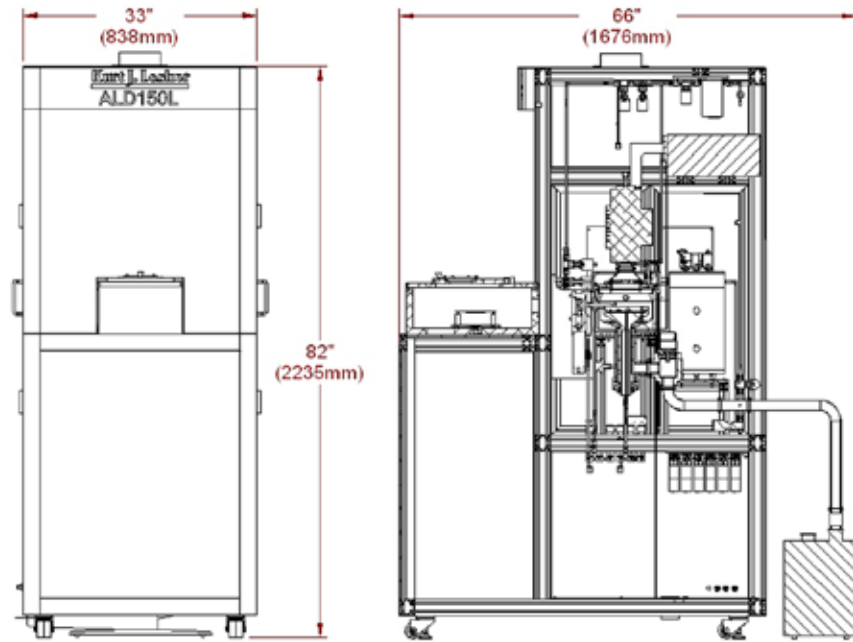
Features

- Proprietary perpendicular flow reactant delivery for short cycle times and efficient reactant utilization
- High throughput, centrally pumped for enhanced uniformity and reactant dispersion
- Expandable LVP, HVP precursor delivery
- Substrate heating - 500°C
- Heated chamber walls, delivery lines and pumping lines
- Fully enclosed framework and stand-alone electronics/control console
- Scalable design allows for easy expansion
- Global service and process support

Options

- Substrate load lock
- Remote plasma
- In-situ real time film growth analysis and control
- Glove boxes
- Oil free pumping
- Multi-technique tools

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Dimensions Approximate

Specifications

Process Chamber Geometry	Designed for Efficient Viscous Flow
Process Chamber Construction	304L Stainless Steel
Cabinet Construction	Carbon Steel, Fully Enclosed, Gray Powder Coat Finish, Separate Instrument Rack
Showerhead Process Gas Distribution (Available in various combinations)	Low Vapor Pressure Delivery Module
	High Vapor Pressure Delivery Module
Deposition Orientation	Substrate is Face Up
Substrate Size (max)	6" (150mm) Diameter
Substrate Heating	Resistive Element 500°C
Standard Vacuum Pumping	42 cfm Chemical Series Pump, Oil Free Option
Gauging	Heated Baratron
Typical Pressure	1 Torr
System Control	PC-Based HMI, with Recipe Control and Datalogging
Required Power (typical, based on options)	208VAC, 3Ø, 50/60 Hz; Optional 380VAC, 3Ø, 50/60 Hz
Available Certifications, Markings	CE and CSA
Warranty	12 Months Upon Shipment
Process Module Dimensions (approx)	33" (838mm) wide X 66" (1676mm) deep X 82" (2235mm) high
Rack Dimensions (approx)	33" (838mm) wide X 34" (864mm) deep X 76" (1930mm) high
Weight (approx)	800 lbs (362 kg)

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