

The LITHOGUARD®-12 cabinet and its associated chemical filter is a high efficiency filtration system that removes gas-phase contaminants such as volatile bases, acid gases, condensable organics, as well as particles. Designed for high end lithography tools, including 248 nm, 193 nm "dry" and 193 nm immersion exposure tools, it provides an ultra-clean environment that enables critical chemical processes and prevents the degradation and contamination of optical elements.

## FEATURES & BENEFITS

- Small footprint
- High efficiency filtration (each individual filter achieving 99%+ removal efficiency)
- Serial filtration that enables air sampling between the filters
- Low cost of ownership due to:
  - Long filter life
  - Donaldson Refill Program
- HEPA Particulate filtration > 99.97% efficiency
- No facility requirements. No connection to CDA or compressed N<sub>2</sub> required.



LITHOGUARD-12

## SPECIFICATIONS

### Supply

- The LITHOGUARD-12 requires:
  - 12 - Donaldson BSMmax chemical filters AND
  - 6 - Donaldson HEPA particulate filters

### Utility Requirements

- No electrical supply required
- No compressed air supply required

### Airflow

- Real-time air sampling via integrated sampling ports allows for continuous performance management.
- Using the latest airflow modeling technology, the LITHOGUARD-12 was designed to:
  - Utilize a small footprint
  - Optimize filtration performance
  - Ensure even distribution of airflow through each filter element
  - Maximize system efficiency and life

## LITHOGUARD-12 SYSTEM

<b>Part Number</b>	KAX007890 (LG-12 Cabinet + 6 HEPA filters)
<b>Chemical Filter Part Number</b>	P512612 (12 filters required)
<b>Design Airflow</b>	2,600 m <sup>3</sup> /hr (1,530 cfm)
<b>Dimensions (W x H x D)</b>	850 mm x 1,850 mm x 1,200 mm (33.5" x 72.8" x 47.25")
<b>Approx. Weight with Filters Installed</b>	600 kg (1,320 lbs.)

Contact Donaldson today for more information!



Donaldson.

Donaldson Company, Inc.  
Semiconductor  
PO Box 1299  
Minneapolis, MN 55440-1299 U.S.A.

[lithoguard.com](http://lithoguard.com)  
[semiconductor@donaldson.com](mailto:semiconductor@donaldson.com)  
[donaldson.com](http://donaldson.com)

USA  
1-952-887-3700

Europe  
+32 16 38 39 83

Korea  
+82 2 517 3333

Hong Kong/China  
+852 2405 8319

Singapore  
+65 6311 7372

Japan  
+81 42 540 4475

Taiwan  
Jusun Instr. Co., Ltd.  
+886 2 2219 5511