



# LITHOGUARD®-12 SERIES CHEMICAL CONTAMINATION CONTROL

Semiconductor Filtration

The LITHOGUARD®-12 cabinet and its associated chemical filters is a high efficiency filtration system that removes gas-phase contaminants such as volatile bases, acid gases, condensable organics, silicon containing compounds, and particulate. 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

- >99% removal efficiency for acids, bases, organics, and silicon containing compounds at design airflow
- Serial filtration enables air sampling between the filters
- Low cost of ownership through:
  - Long filter life
  - Donaldson Refill Program
- HEPA Particulate filtration
- No facility requirements and no connection to CDA or compressed N<sub>2</sub> required
- Small footprint
- Stainless steel construction for cleanliness



## SPECIFICATIONS

- The LITHOGUARD-12 requires:
  - 12 Donaldson chemical filters and
  - 6 Donaldson HEPA particulate filters
- 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
  - Maximize filtration efficiency, capacity and life

LITHOGUARD®-12

<b>PART NUMBER</b>	KAX007890 (LG-12 Cabinet + 6 HEPA filters)
<b>CHEMICAL FILTER KIT NO.</b>	KAX011439 (BSMmax) or KAX011428 (LPS)
<b>DESIGN AIRFLOW</b>	2,600 m <sup>3</sup> /hr (1,530 cfm)
<b>DIMENSIONS (W X D X H)</b>	850 mm x 1,200 mm x 1,850 mm (33.5" x 47.25" x 72.8")
<b>APPROX. WEIGHT (WITH FILTERS INSTALLED)</b>	600 kg (1,320 lbs.)

### Important Notice

Many factors beyond the control of Donaldson can affect the use and performance of Donaldson products in a particular application, including the conditions under which the product is used. Since these factors are uniquely within the user's knowledge and control, it is essential the user evaluate the products to determine whether the product is fit for the particular purpose and suitable for the user's application. All products, product specifications, availability and data are subject to change without notice, and may vary by region or country.



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