



LITHOGUARD® LPS FILTERS LENS PROTECTION SYSTEM

Semiconductor Filtration

THE ULTIMATE IN LENS PROTECTION SYSTEM TECHNOLOGY

Since Donaldson first introduced broad spectrum filtration media to the semiconductor industry, tool manufacturers have become increasingly concerned about the presence of airborne silicon-containing organics and the resulting siloxane contamination to optical elements. To meet these increasingly complex and stringent demands, Donaldson developed LPS filtration technology which offers maximum protection against siloxanes, and longer filter life for the broadest spectrum of acid, base, and organic contaminants that can degrade tools and affect processes.

Donaldson LPS's two stage filtration system incorporates advanced media technology to deliver the longest life and highest efficiency in broad spectrum filtration. As part of the Donaldson Refill Program, LPS filters can be reused and refilled; which further lowers cost of ownership by reducing replacement and waste expenses. With refill locations around the world, Donaldson LPS can meet the filtration needs for your global business. When you need simply the best in contamination protection, you need Donaldson LPS.

FEATURES & BENEFITS

- Greater than 99% removal efficiency for:
 - Acids (such as SO₂, HCl, HBr)
 - Bases (NH₃, NMP, amines)
 - Silicon-containing compounds (HMDSO, TMS)
- More capacity and longer life than filters of comparable size
- These filters are eligible for the Donaldson Refill Program
- Donaldson can provide life estimates based on your actual fab contaminant concentrations



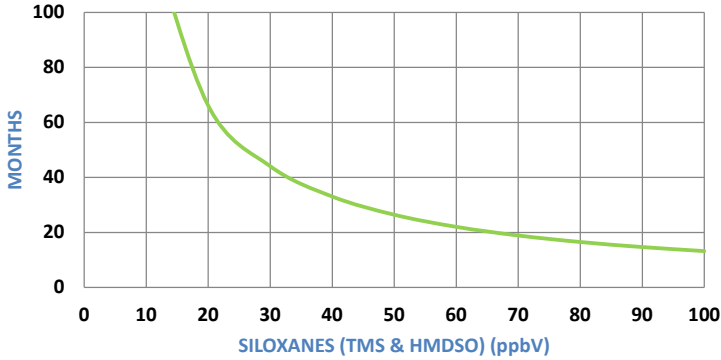
LITHOGUARD® LPS FILTERS

PART NO.	SYSTEM	DIMENSIONS (W X L X D)	DESIGN AIRFLOW	PRESSURE DROP	APPROX. WEIGHT
P515501	LITHOGUARD®-12	555 x 430 x 188 mm (21.9" x 16.9" x 7.4")	433 m ³ /hr (255 cfm)**	225 Pa (0.9" water gauge)**	20 kg (44 lbs)**
P515502	LITHOGUARD®-12	555 x 430 x 188 mm (21.9" x 16.9" x 7.4")	433 m ³ /hr (255 cfm)**	210 Pa (0.84" water gauge)**	20 kg (44 lbs)**

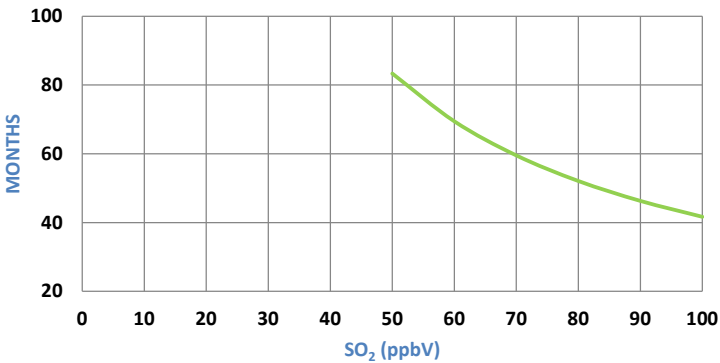
** Results per filter.

SYSTEM RESULTS

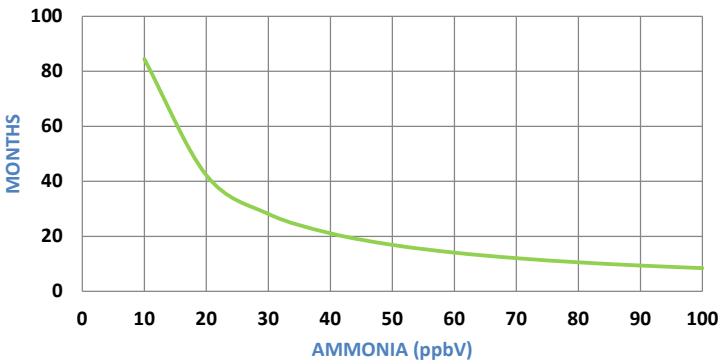
Expected Life with LPS - Siloxanes*



Expected Life with LPS - Sulfur Dioxide*



Expected Life with LPS - Ammonia*



LITHOGUARD®-12 CABINET

* Expected life is dependent upon actual fab conditions and based on system results using Donaldson filters in a LITHOGUARD®-12 cabinet.

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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