

# Donaldson BSMmax Airborne Molecular Contamination



BSMmax, the next generation of broad spectrum media filtration.

Since 2001, when Donaldson first introduced broad spectrum filter media for the semiconductor industry, considerable research has gone into the actual levels of contaminant types in ambient air. Simultaneously, tool manufacturers have shown increasing concern about the presence of Si-containing compounds in cleanroom air and the resulting irreversible damage to optical elements. To meet these demands, Donaldson developed media and a filter insert that offer the maximum protection, maximum filter life, and maximum flexibility for the broadest spectrum of contaminants that can degrade tools and processes.

## **Features and benefits of the BSMmax filter include:**

- Removal capacity for:
  - Acids
  - Bases ( $\text{NH}_3$ , NMP, amines)
  - Condensable organics (HMDSO, TMS)
- Greater capacity than current carbon filters of comparable size
- Refillable filter inserts
- Global sales and service

BSMmax chemical filters are available for LITHOGUARD 5-High, 7-High, 300 and LITHOGUARD 12 chemical filtration cabinets."

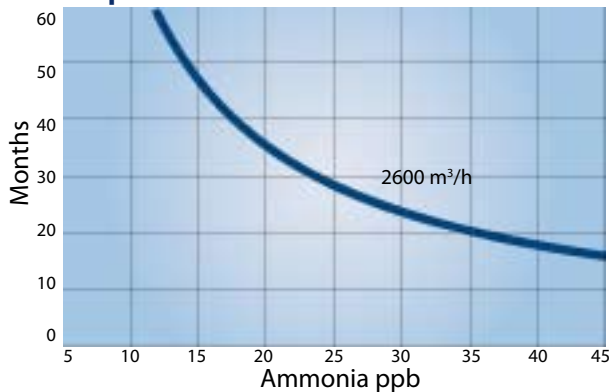
Donaldson®

# Donaldson BSMmax Airborne Molecular Contamination Filters

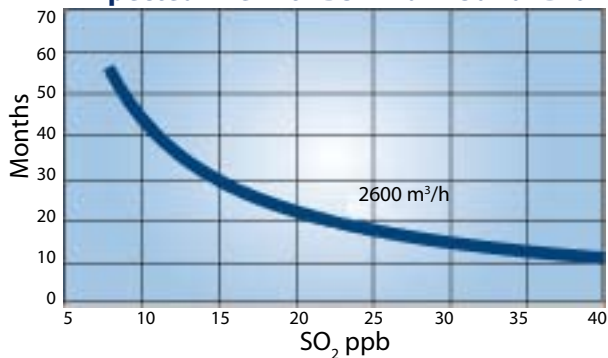
\*Expected life is dependent upon actual fab conditions and based on systems results using Donaldson filters in a LITHOGUARD -12 cabinet.

System Results • System Results • System Results

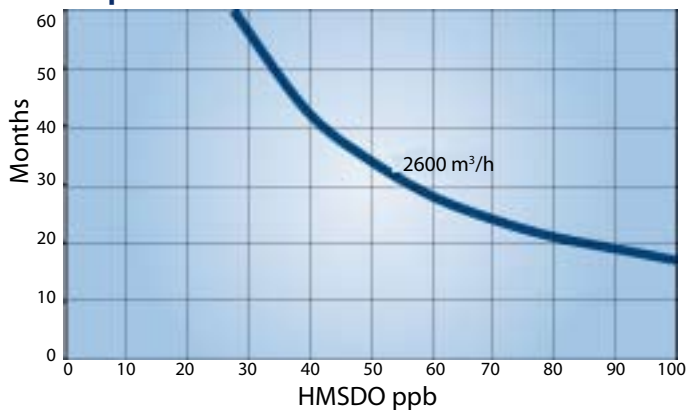
**\*Expected Life with BSMmax - Ammonia**



**\*Expected Life with BSMmax - Sulfur Dioxide**



**\*Expected Life with BSMmax - HMDSO**



LITHOGUARD®-12 Cabinet



BSMmax Filter

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BSMmax Filters	Part #P510805	Part #P512612
System	LITHOGUARD-12	LITHOGUARD-12
Dimensions	552mm x 185mm x 430mm 21.7" x 7.3" x 16.9"	552mm x 185mm x 430mm 21.7" x 7.3" x 16.9"
Flow	**255cfm (433 m³/h)	**255cfm (433 m³/h)
Pressure Drop	**190 Pa (0.8" water gauge)	**225 Pa (0.9" water gauge)
Approximate Weight	**18 kg (40 lbs.)	**20 kg (44 lbs.)

\*\*Results per filter

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