

Air Cleaner Systems with PSD PowerCore® Filtration Technology

The PSD PowerCore® Air Cleaner is a two-stage air cleaner with build-in high efficiency pre-cleaner using the new PowerCore® Filtration Technology.

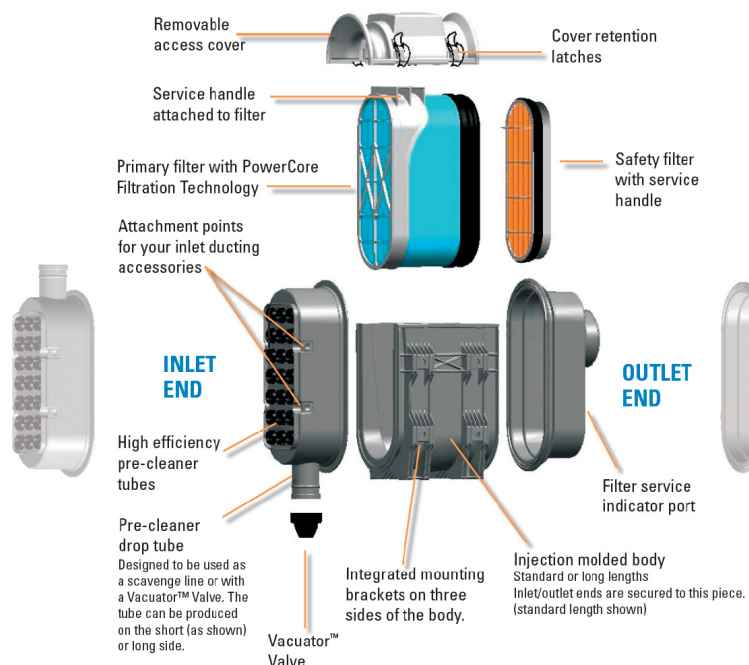


PowerCore® Features & Benefits:

- Axial Flow
- High Media Area & High efficiency
- Low Restriction
- Highly efficient Ultra-Web® Media Technology (99,985%+) optional
- Environmentally Friendly Non-Metal
- RadialSeal™ Sealing Technology
- Easy to Service
- Lower shipping inventory, freight and storage costs due to reduced size
- Better Compressor & Engine Protection
- Rugged Structure
- System Design Flexibility
- Design Differentiation
- Compact and Lightweight
- Multiple Installation Positions
- Built-In Pre-Separation and Mounting Brackets
- Proven Sealing Design

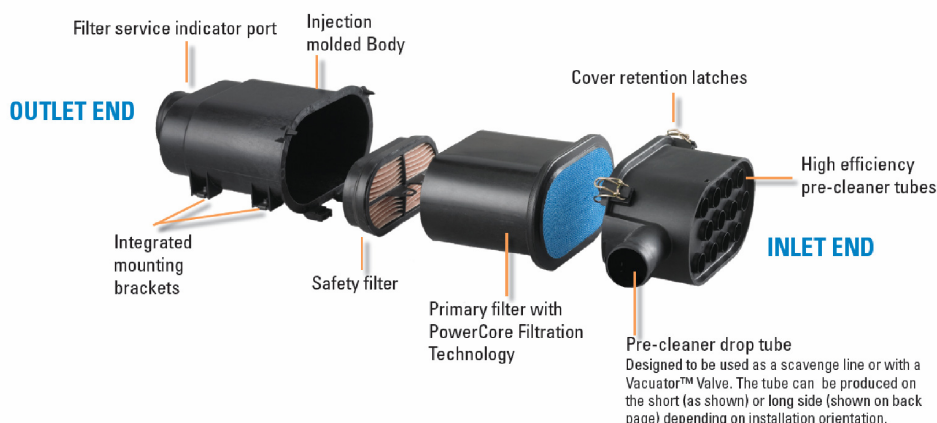
Service Access on Side

Air Cleaner Style: PSD09, PSD10, PSD12



Service Access on Inlet

Air Cleaner Style: PSD08

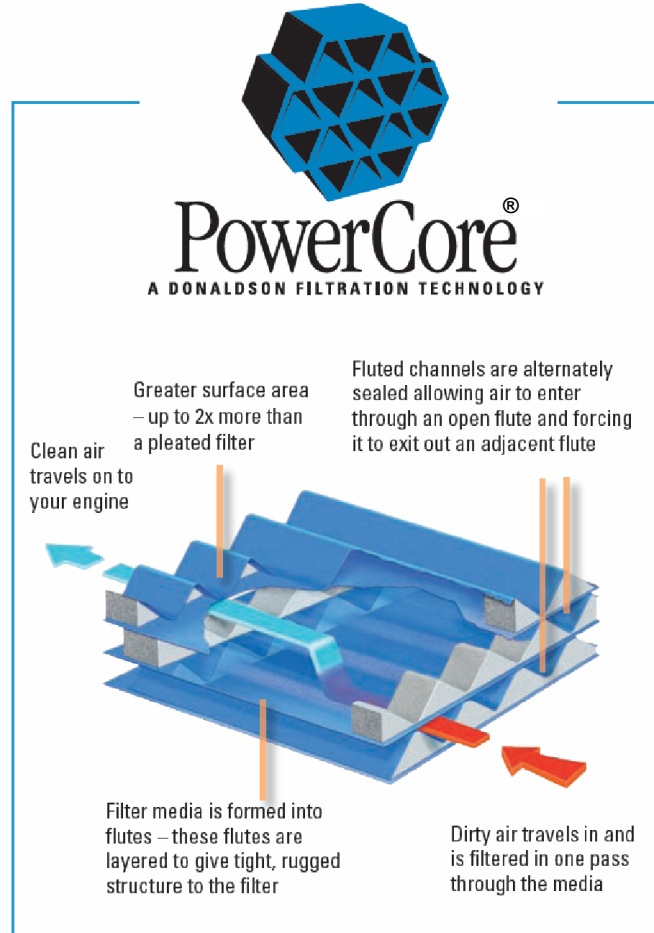


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PowerCore® Media Set Up:

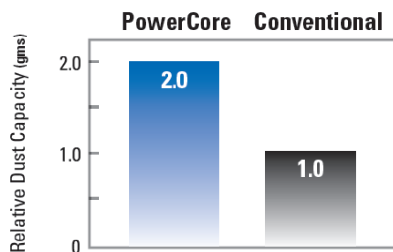
The PowerCore® filtration technology's straight-through fluted filter design offers:

- ◆ Improved filtration efficiency - Three times more efficient than the average conventional pleated filter.
Optional:
The use of Ultra-Web® nanofiber filtration media has demonstrated results of 10 times cleaner air than conventional filter media.
- ◆ Improved compressor and/or engine protection. No media movement, expansion, contraction or bunching, with less dust and dirt passed on to the compressor / engine.
- ◆ Improved air / oil separator life through reduced ingestion of contamination.
- ◆ Improved contaminant encapsulation - Dust and dirt won't dislodge during servicing.
- ◆ Improved handling and maintenance - Lighter and smaller than conventional filters.
- ◆ Improved disposal ease - No metal, incinerable.



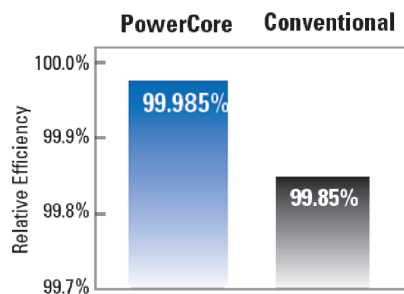
Dust Holding Capacity

Gain over 100% more dust holding capacity in a given volume.



Overall Efficiency

Improved filtration efficiency.



Optional Ultra-Web® Media Advantages

The Ultra-Web® nanofiber technology has a web-like filtering layer applied over the surface of specially formulated cellulose media. This causes sub-micron contaminants to load on the surface. In field tests, filters using Ultra-Web® nanofiber technology hold up to five times more contaminant and allow less contaminant to pass through the media than comparably sized cellulose air filters. Ultra-Web® fibers have sub-micron diameters and small interfibre spaces, which result in more contaminant being captured and lower restriction. This results in superior air / oil separator protection and life extension.

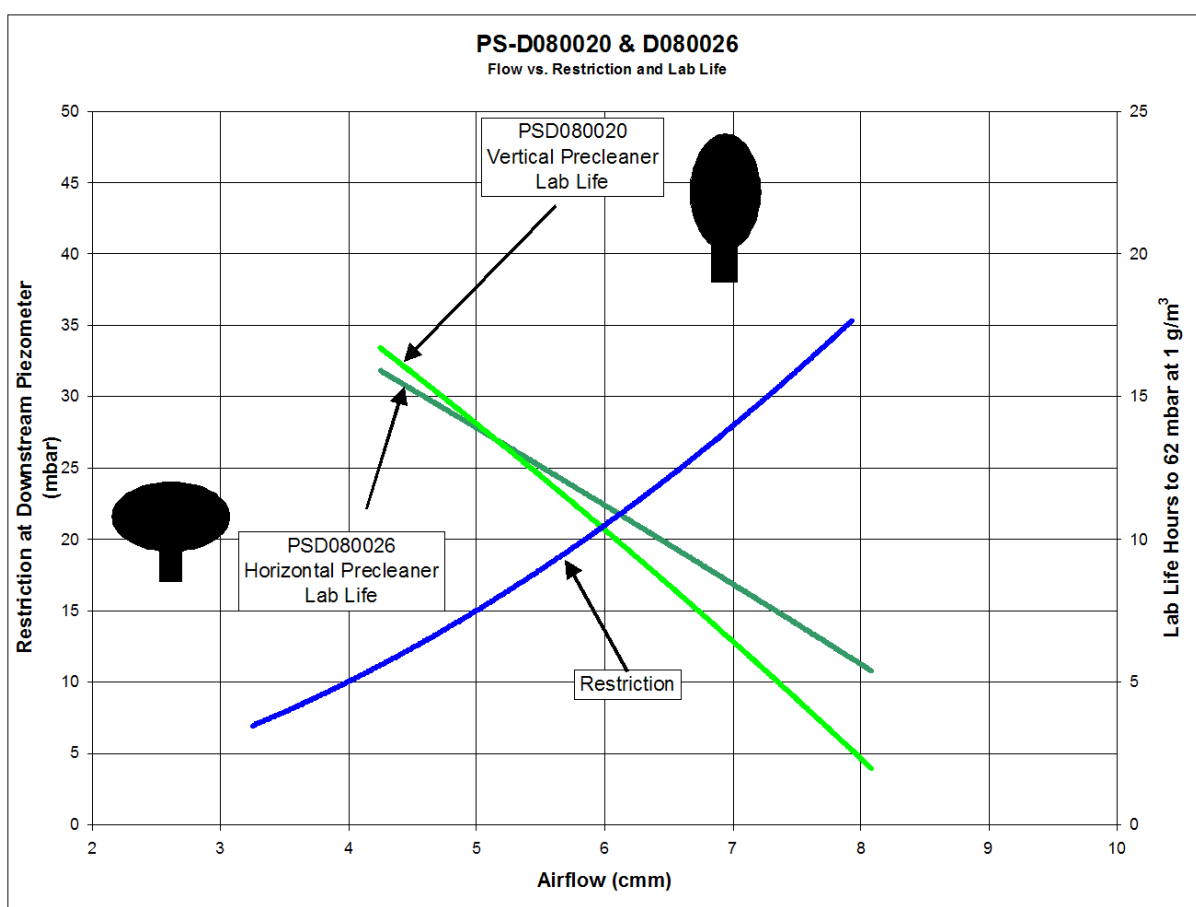


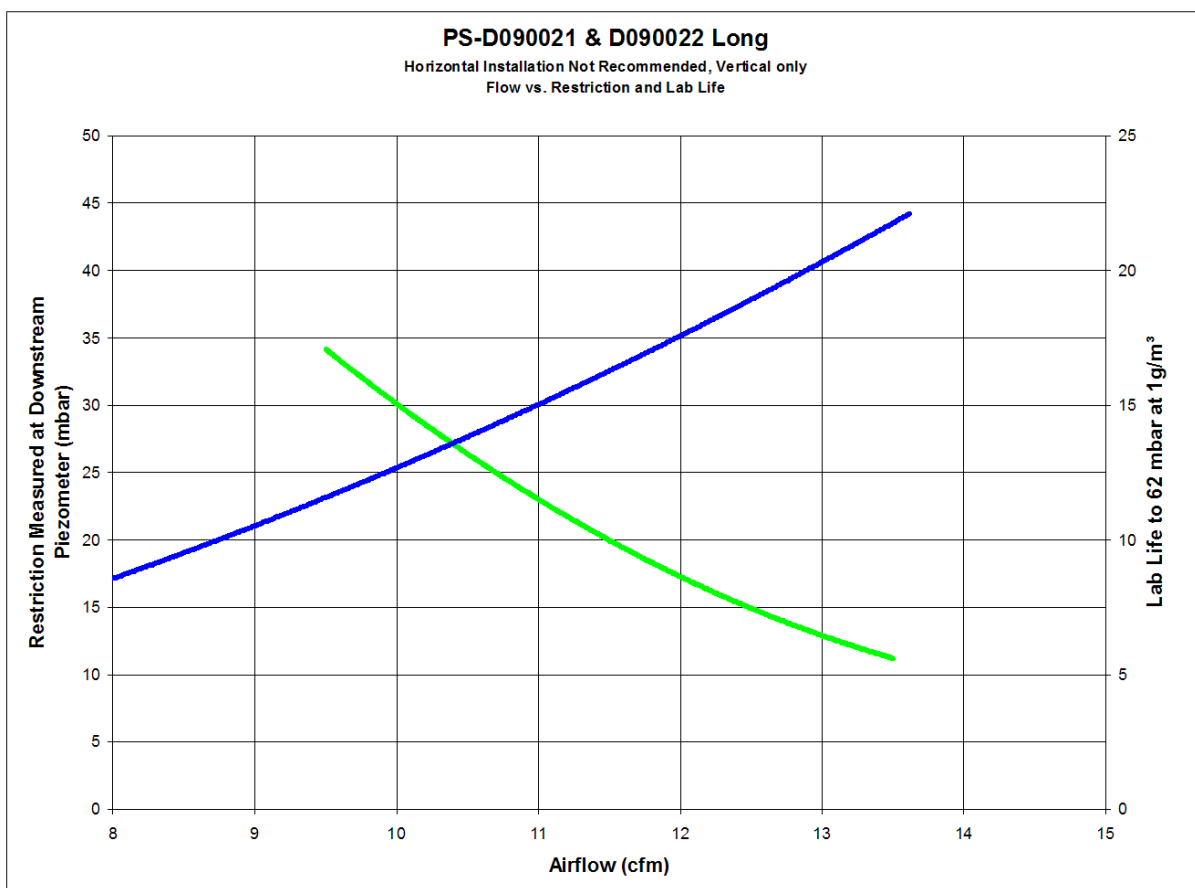
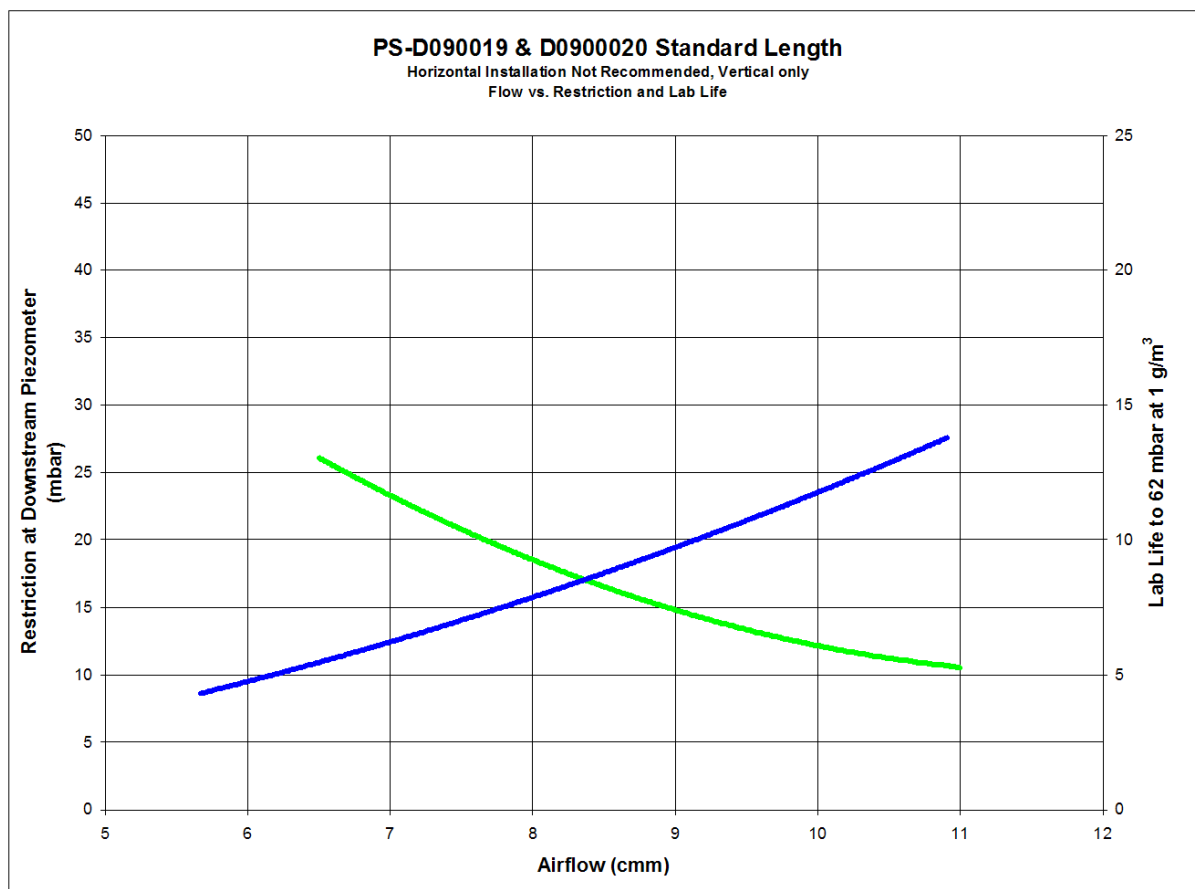
PSD 08				
Air Cleaner Assembly		PSD080026		PSD080020
Description		Vertical Installation		Horizontal Installation
Media	White Media - Ultra Web optional			
Access Cover Assembly		P601735		P602985
Latch (2x)		P776033		P776033
U-Clip		P600974		P600974
Element Assembly		P608533		P608533
Safety Assembly		P600975		P600975
Vacuator Valve		P158914		P158914
PSD09				
Air Cleaner Assembly	PSD090019	PSD090020	PSD090021	PSD090022
Description	Vertical Installation short	Horizontal Installation short	Vertical Installation long	Horizontal Installation long
Media	White Media - Ultra Web optional			
Access Cover Assembly	P609550	P609550	P609552	P609552
Access Cover	P609155	P609533	P609155	P609533
Latch (4x)	P784506	P784506	P784506	P784506
U-Clip, Mounting (4x)	P784289	P784289	P784289	P784289
Element Assembly	P608665	P608665	P608675	P608675
Safety Assembly	P606121	P606121	P606121	P606121
Vacuator Valve	P158914	P158914	P158914	P158914
PSD10				
Air Cleaner Assembly	PSD100029	PSD100030	PSD100031	PSD100032
Description	Vertical Installation short	Horizontal Installation short	Vertical Installation long	Horizontal Installation long
Media	White Media - Ultra Web optional			
Access Cover Assembly	P784279	P784279	P784298	P784298
Access Cover	P784280	P784280	P784299	P784299
Latch (4x)	P784506	P784506	P784506	P784506
U-Clip, Mounting (4x)	P784289	P784289	P784289	P784289
Element Assembly	P608666	P608666	P608676	P608676
Safety Assembly	P601560	P601560	P601560	P601560
Vacuator Valve	P112803	P112803	P112803	P112803
Adapters	3 Styles available: Ø 32 = P783747 Ø 38 = P783746 Ø 50 = P783748			
Check Valve	P784790			
PSD12				
Air Cleaner Assembly	PSD120035	PSD120036	PSD120037	PSD120038
Description	Vertical Installation short	Horizontal Installation short	Vertical Installation long	Horizontal Installation long
Media	White Media - Ultra Web optional			
Access Cover Assembly	P608171	P608171	P608180	P608180
Access Cover	P608173	P608173	P608179	P608179
Latch (4x)	P784506	P784506	P784506	P784506
U-Clip, Mounting (4x)	P784289	P784289	P784289	P784289
Element Assembly	P608667	P608667	P608677	P608677
Safety Assembly	P607557	P607557	P607557	P607557
Vacuator Valve	P112803	P112803	P112803	P112803
Adapters	3 Styles available: Ø 32 = P783747 Ø 38 = P783746 Ø 50 = P783748			
Check Valve	P784790			

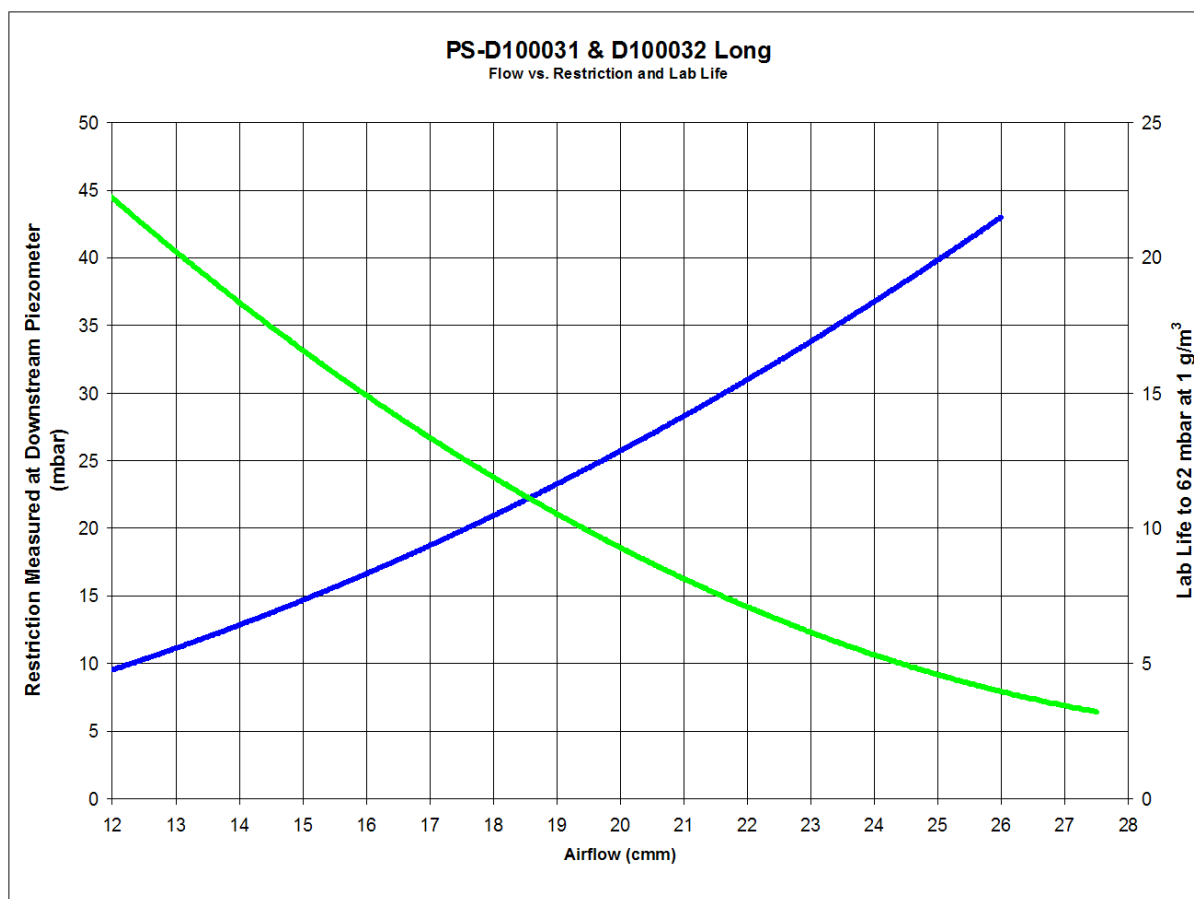
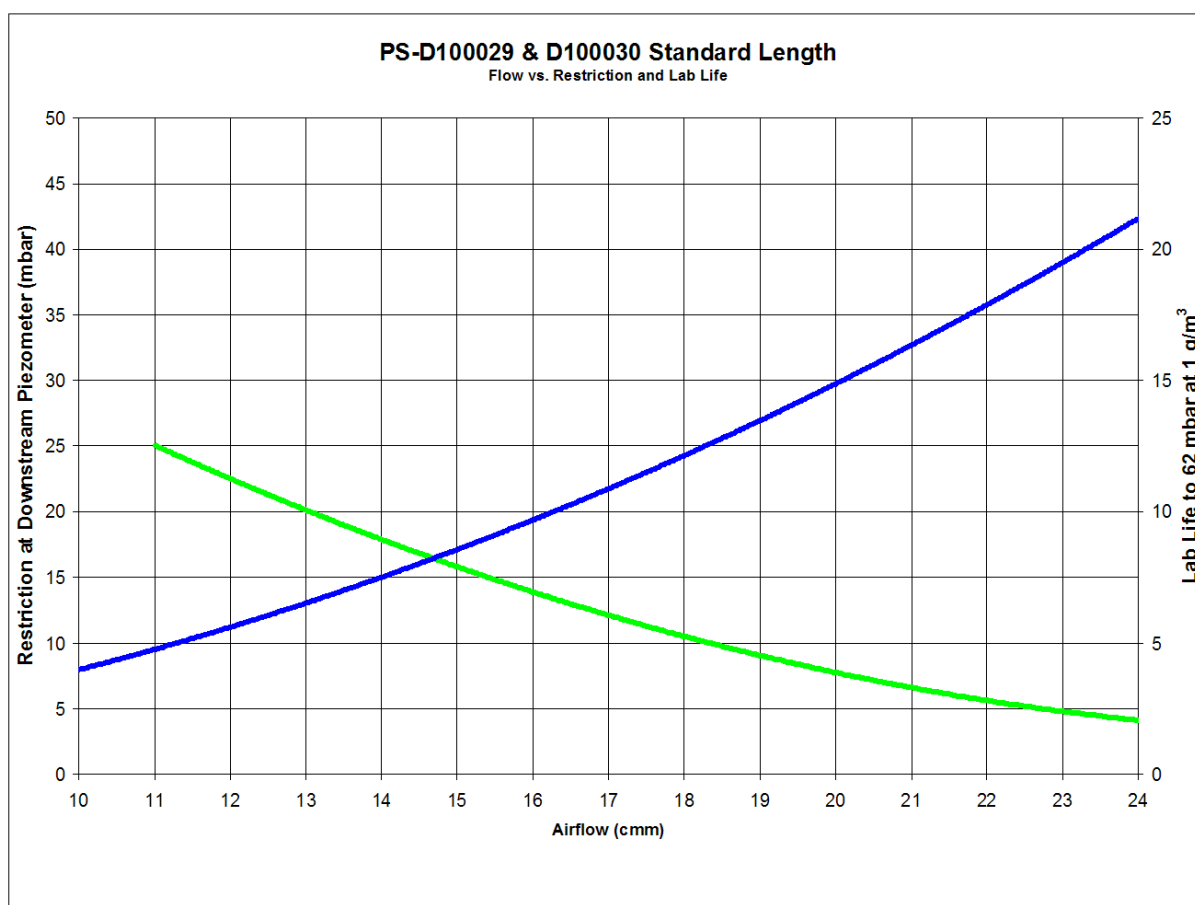
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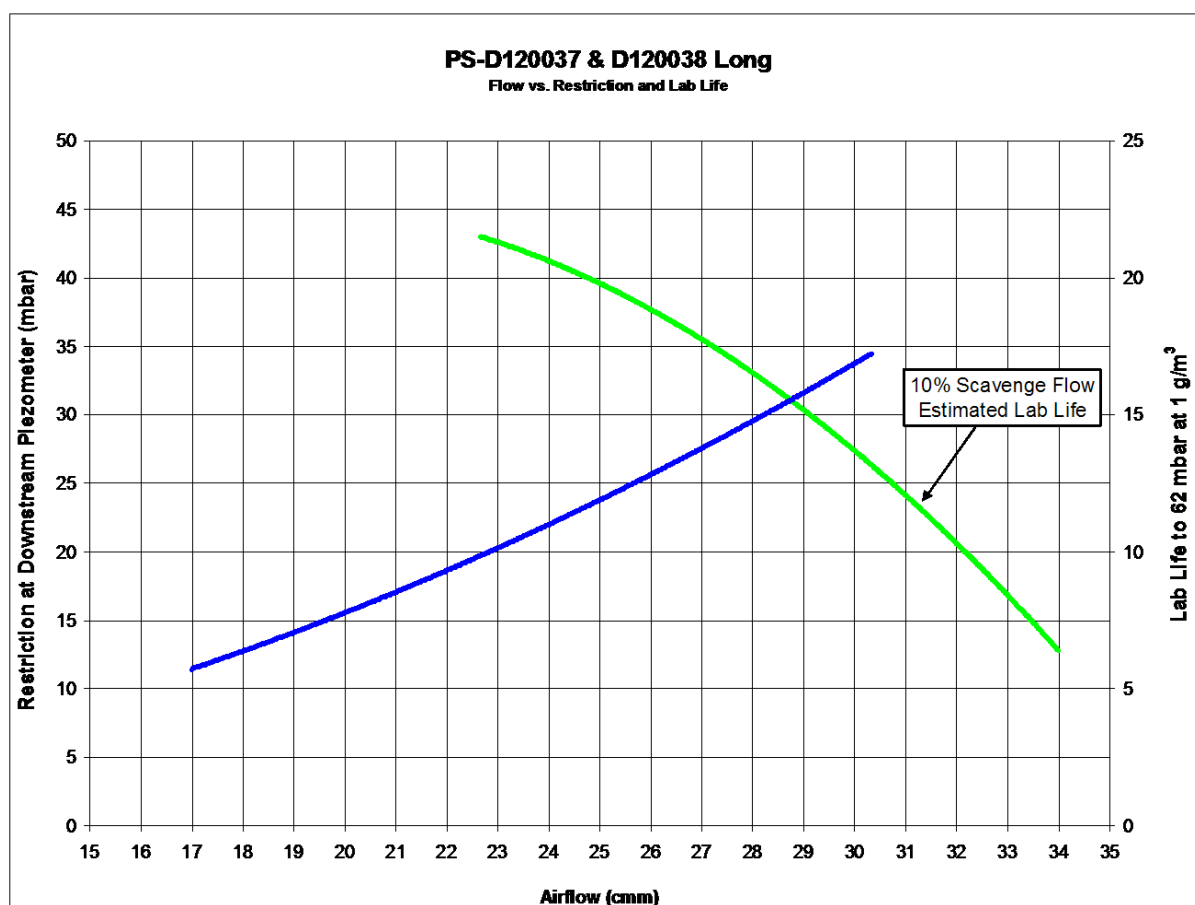
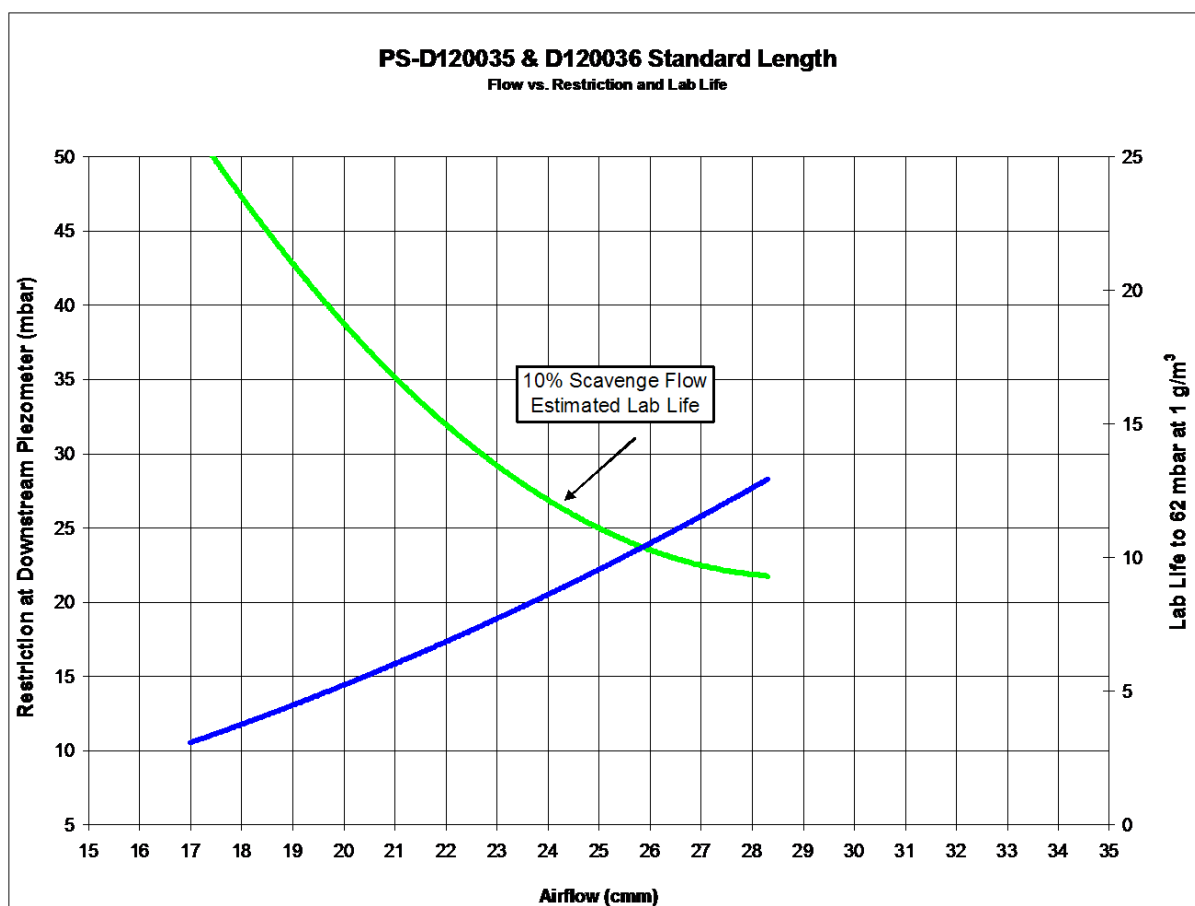
Performance Curves

Restriction (mbar) and Lab Life (hrs) at 1g/m³ dust injection







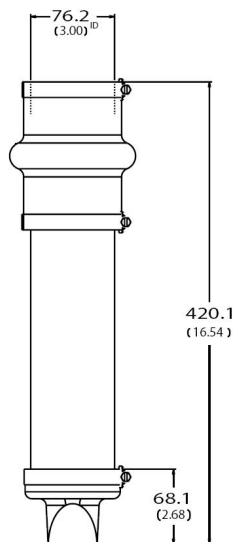


Housing Style	Airflow Range		A		B		C		D		E		F		G		H	
	m³/min	CFM	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch			mm	inch
PSD09	6.0 - 9.0	212 - 318	102	4.02	432	17.02	363	14.30	180	7.09	110	4.33	174	6.86	100	3.94	130	5.12
	9.0 - 13.5	318 - 477			532	20.96					132	5.20						
PSD10	12.0 - 18.0	424 - 635	127	5.00	429	16.90	374	14.74	254	10.01	110	4.33	165	6.50	110	4.33	110	4.33
	18.0 - 25.0	635 - 883	152	6.00	529	20.84					210	8.17						
PSD12	23.0 - 27.0	812 - 953	152	6.00	494	19.46	431	16.98	306	12.06	166	6.54	160	6.30	154	6.07	110	4.33
	27.0 - 30.0	953 -1060			595	23.44					268	10.56						

Accessoire: Drop Down Tube Extension for PSD10 & PSD12 cleaners

Features

- ◆ Improves dust evacuation from the air cleaner.
- ◆ Clear tube allows for visual inspection of dust collection.
- ◆ Improves safety of the air cleaner inspection process by eliminating the need for ladders or elevated platforms for daily inspections.
- ◆ Allows operators to perform walk around inspections.
- ◆ Keeps operators and maintenance personnel away from the nuisance dust normally encountered during air cleaner servicing operations.
- ◆ Reduces air cleaner inspection time.
- ◆ Ships fully assembled.



Part No. X006561

