

MICRO SHIELD®

4V-Cell Filter



.199"
w.g.
Initial Pressure Drop

Quick Facts:

Features:

- » Patented, permanent gasket system
- » Positive mechanical seal eliminates air bypass
- » Superior energy savings compared to other high-efficiency products
- » Low initial resistance
- » Lightweight
- » Hassle free installation without additional filter hardware

Applications:

- » Commercial Buildings
- » Industrial Facilities
- » Pharmaceutical
- » Government Institutions
- » Universities/Schools
- » Hotels and Entertainment Complexes

Technical Information:

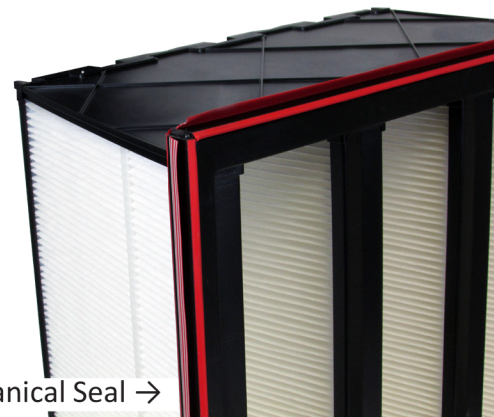
- » MERV 16/15A
- » $\Delta P = .199$ " w.g. at 1968 cfm*
- » Available in a variety of standard sizes
- » Tested in accordance with ASHRAE Test Standard 52.2-2007 and 52.2-2007 appendix J
- » UL Standard 900 approved
- » 100% synthetic media
- » Fully incinerable

Our latest innovation -- **ZERO-BYPASS** -- combines our Best In Class mini-pleated media with patented gasket technology originally developed by 3M.

This innovative combination creates a long-lasting, low pressure drop filtration system that virtually eliminates filter bypass with the inclusion of the **ZERO-BYPASS** permanent gasket system.

Available in MERV 16/15A, these exceptional filters offer unparalleled filtration performance while providing energy, time, and labor savings.

ZERO-BYPASS™ Gasket Technology

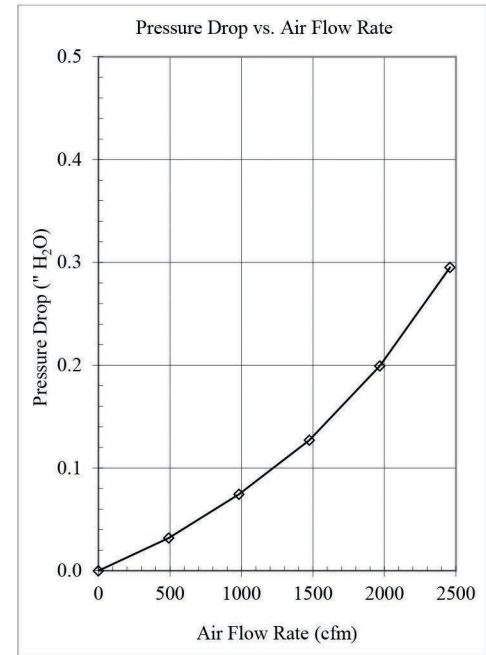
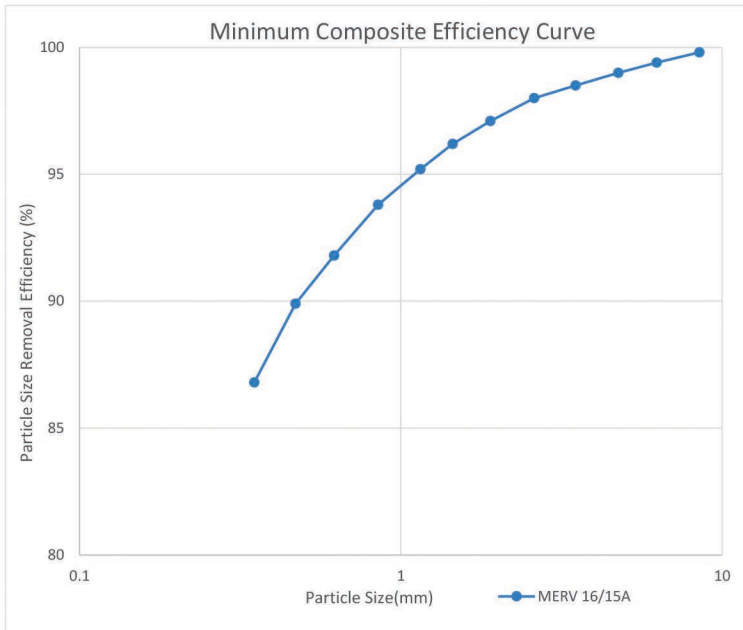


← Gasket

Mechanical Seal →



Filter Size (Nominal)	Rated Air Flow Capacity (CFM)			Initial Air Flow Resistance (w.g.)			Media Area (sqft)
	Low	Med	High	Low	Med	High	
12 x 24 x 12	722	963	1204	0.127	.199	0.3	52
20 x 24 x 12	1236	1648	2060	0.127	.199	0.3	89
24 x 24 x 12	1500	2000	2500	0.127	.199	0.3	108



MICRO SHIELD ZERO-BYPASS Energy Savings Calculator (4V-Cell Mini Pleat Filter)

		Competitive Alternatives			
		Synthetic	Glass ₁	Glass ₂	Glass ₃
Media	Synthetic	Synthetic	Glass ₁	Glass ₂	Glass ₃
MERV Rating	16/15A	16	16	15	14
Test Period	12 Months	12 Months	12 Months	12 Months	12 Months
Initial Resistance (@ 500 FPM)	0.199" w.g.	.31" w.g.	0.6" w.g.	.5" w.g.	0.34" w.g.
Average Resistance	0.27" w.g.	.41" w.g.	0.8" w.g.	.67" w.g.	0.45" w.g.
Final Resistance	0.40" w.g.	.62" w.g.	1.2" w.g.	1.00" w.g.	0.68" w.g.
Energy Cost	\$67.00	\$94.00	\$182.00	\$152.00	\$103.00
Additional Energy Cost	-	\$27.00	\$115.00	\$85.00	\$36.00