



**NEW FOR 2019!**



**MICRO SHIELD® ZERO-BYPASS™**  
2" Mini Pleat Filter

Featuring CI's patented permanent gasket technology.



## 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 12/11A**  
ΔP=.25" w.g. at 1968 cfm\*
- » **MERV 15/14A**  
ΔP=.35" 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

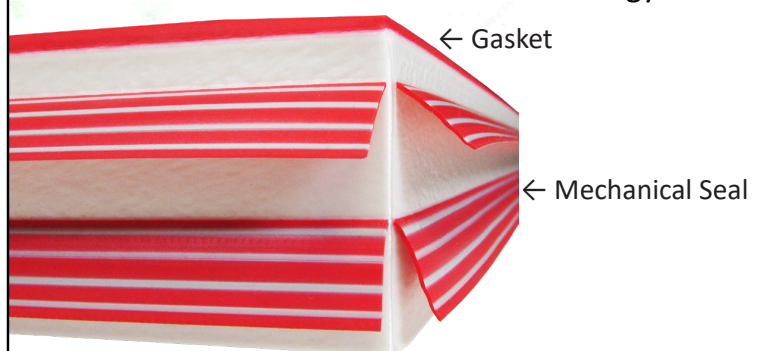
CI's performance engineered MICRO SHIELD mini pleat filters just got better!

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 12/11A and 15/14A varieties, these exceptional filters offer unparalleled filtration performance while providing energy, time, and labor savings.

### ZERO-BYPASS™ Gasket Technology



← Gasket

← Mechanical Seal

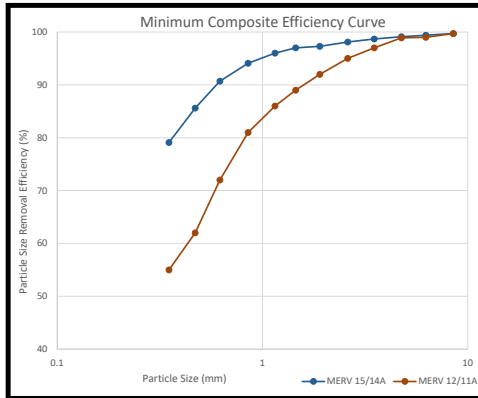
\* Expected performance per internal testing. External results pending.



**MICRO SHIELD® ZERO-BYPASS™**  
2" Mini Pleat Filter

MERV 15/14A	Filter Size (Nominal)	Rated Air Flow Capacity (CFM)			Initial Air Flow Resistance (w.g.)			Media Area (sqft)
		Low	Med	High	Low	Med	High	
	12x24x2	726	968	1210	0.25	0.35	0.48	22
	20x20x2	1031	1374	1718	0.25	0.35	0.48	32
	20x24x2	1242	1657	2071	0.25	0.35	0.48	38
	20x30x2	1567	2090	2612	0.25	0.35	0.48	48
	24x24x2	1500	2000	2500	0.25	0.35	0.48	46

MERV 12/11A	Filter Size (Nominal)	Rated Air Flow Capacity (CFM)			Initial Air Flow Resistance (w.g.)			Media Area (sqft)
		Low	Med	High	Low	Med	High	
	12x24x2	726	968	1210	0.23	0.25	0.27	22
	20x20x2	1031	1374	1718	0.23	0.25	0.27	32
	20x24x2	1242	1657	2071	0.23	0.25	0.27	38
	20x30x2	1567	2090	2612	0.23	0.25	0.27	48
	24x24x2	1500	2000	2500	0.23	0.25	0.27	46



CI MICRO SHIELD ZERO-BYPASS Energy Savings Calculator (2" Mini pleat Filter)				
		Competitive Alternative		Competitive Alternative
Media	Synthetic	Synthetic	Synthetic	Synthetic
MERV Rating	15/14A	14	12/11A	11
Test Period	12 Months	12 Months	12 Months	12 Months
Initial Resistance (@ 500 FPM)	0.35" w.g.	0.44" w.g.	0.25" w.g.	0.30" w.g.
Average Resistance	0.46" w.g.	0.58" w.g.	0.33" w.g.	0.40" w.g.
Final Resistance	0.70" w.g.	0.85" w.g.	0.50" w.g.	0.60" w.g.
Energy Cost	\$116.00	\$146.00	\$84.00	\$101.00
Additional Energy Cost	-	\$30.00	-	\$17.00

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