



## Hi-E Series

Extended Area Deep Pleated Collapsible Cartridge

Purolator's Hi-E Series 8", 12", and 24" filters are deep pleated, medium and high efficiency pre-formed cartridge type air filters. Each air filter cartridge is comprised of deep pleated reinforced nonwoven cotton/synthetic blended or ultra-fine micro glass media with a spun-bonded nylon backing which is completely pre-formed and bonded on the top and bottom to 60-point chipboard panels.

In a typical application, the cartridge filter element is inserted into a permanently installed filter assembly, consisting of a filter holding frame, sealer ring, wire retainer, and filter clips.

### Applications

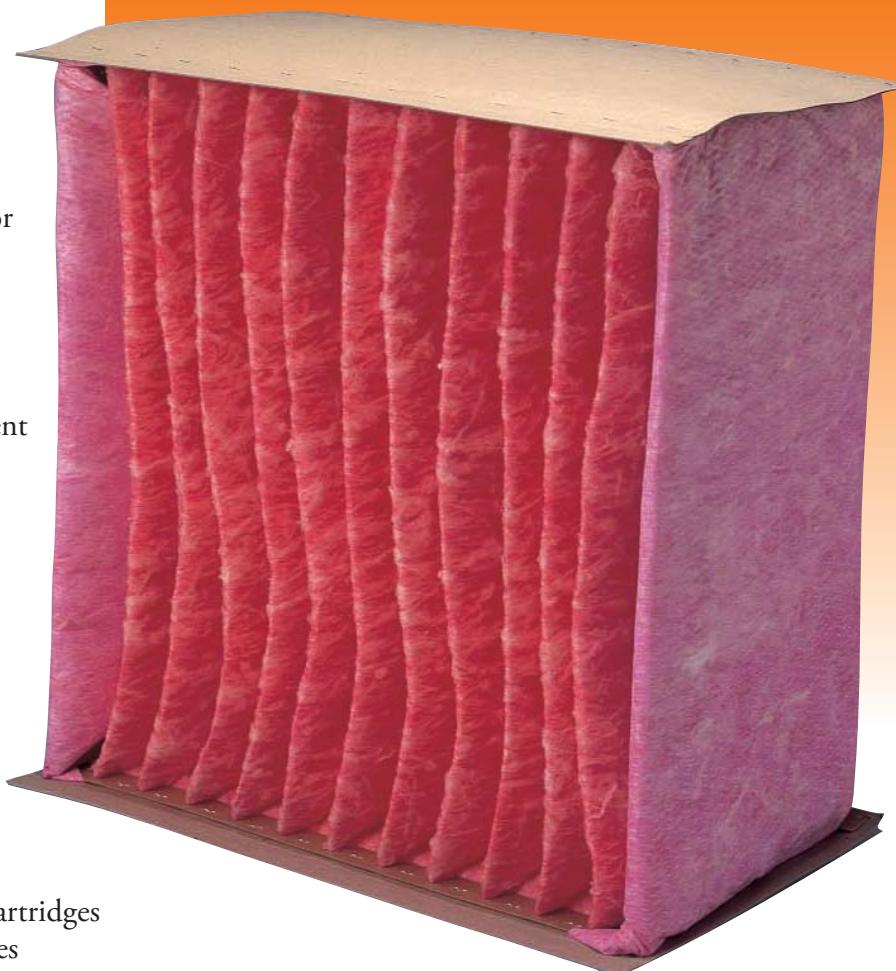
Each Hi-E 8", 12" and 24" preformed air filters cartridge is appropriate for use in a variety of system applications including conditions such as limited fan static, high concentration of contaminants, or limited filter bank face area.

### Four Filtering Efficiencies

The Hi-E 8", 12", and 24" preformed air filter cartridges are available in four graduated filtering efficiencies covering the complete range of medium to high efficiency filtration.

Model	Average Efficiency	Average arrestance	Media color
40	30-35%	93%	White
60	60-65%	97%	Orange
85	80-85%	98%	Pink
95	90-95%	99%	Yellow

Where the Hi-E 40 style utilizes a non-woven cotton/synthetic blended media, the Hi-E 60, 85 and 95 utilize ultra-fine micro glass media, with spun bonded nylon backing. Each average filtering efficiency is based on the ASHRAE 52.1-1992 test method.



### Filter Face Sizes and Capabilities

The following face sizes are available for most Hi-E Series depth and efficiency combinations: 16 x 20, 12 x 24, 20 x 25, 20 x 20, 24 x 24. Where the Hi-E 40 model is available in two depths of 8" and 12", the Hi-E 60, 85 and 95 may be ordered in an 8", 12" or 24" depth. The variety of cartridge depth size selection offered permits use of the Hi-E series filter in many applications, with varying filter face velocity and capacity requirements (up to 2500 CFM per filter).

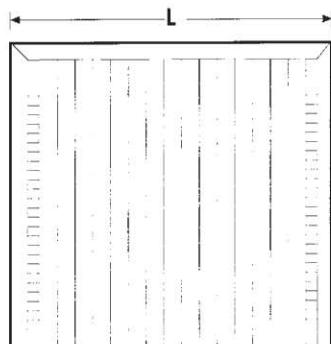
### Fire Resistant Construction

All Hi-E Series 8", 12", and 24" deep pleated filter cartridges are available in Underwriter's Laboratories Class 2 approved and rated construction.

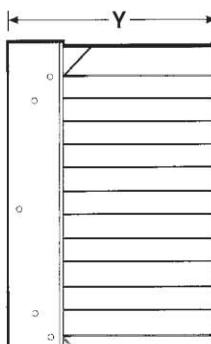
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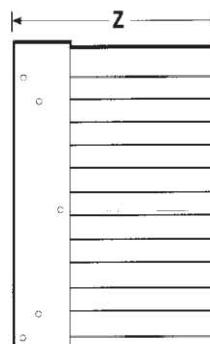
## Performance Data: Hi-E Series Cartridge



Front view



Side view upstream



Side view downstream

Size	L	W	Y	Z
12 x 24 x 12	12"	24"	11½"	9½"
24 x 24 x 12	24"	24"	11½"	9½"
12 x 24 x 12	12"	24"	15½"	13½"
24 x 24 x 12	24"	24"	15½"	13½"
12 x 24 x 12	12"	24"	27½"	25½"
24 x 24 x 12	24"	24"	27½"	25½"

## Performance Data: Hi-E Series Cartridge

Series	Nominal size LxWxD	Hi-E Series Model number	CFM capacity			Resistance (in W.G.)			Total media area/sq.ft.
			low	med	high	low	med	high	
40	12 x 24 x 12	HE40-2412	750	1000	1250	.09	.15	.22	21.0
	24 x 24 x 12	HE40-4412	1500	2000	2500	.09	.15	.22	42.0
65	12 x 24 x 12	HE60-2412	750	1000	1250	.23	.35	.52	21.0
	24 x 24 x 12	HE60-4412	750	1000	1250	.19	.31	.50	42.0
85	12 x 24 x 12	HE85-2412	500	750	1000	.25	.38	.60	21.0
	24 x 24 x 12	HE85-4412	1000	2000	2500	.26	.40	.62	42.0
95	12 x 24 x 12	HE95-2412	500	750	1000	.35	.57	.90	21.0
	24 x 24 x 12	HE95-4412	1000	2000	2500	.36	.61	.92	42.0

### Suggested Product Specifications

Air filters shall be deep pleated, medium and high efficiency, preformed collapsible cartridge type. The filter cartridges are to be constructed of reinforced non-woven cotton/polyester, or ultra fine micro glass media with an integral synthetic backing.

The Filter media shall be bonded top and bottom to heavy duty solid .060 chipboard panels creating an effective media area of \_\_\_\_\_ square feet. The filters shall have an initial resistance of \_\_\_\_\_" w.g. when operated at a capacity of \_\_\_\_\_ CFM per filter. It shall have an average efficiency of \_\_\_\_\_ % and an arrestance of \_\_\_\_\_ % when tested in accordance with ASHRAE test standard 52.1-1992. Filter shall be listed by Underwriters Laboratories as Class 2.

### PREFILTERS

Prefilters shall be 2" or 4" medium efficiency (MERV 8) pleated,

disposable type, constructed with a synthetic media supported by an expanded metal support backing and enclosed in a heavy duty, high wet strength beverage board frame. The filter shall be the Defiant Mark 80 D or Hi-E 40 type as manufactured by Purolator.

### SIDE SERVICE HOUSINGS

Housings shall be side servicing from either side through access doors fitted with positive pressure trip lock latches and gasketed inside doors parallel to the filter track. Housings shall be constructed of heavy duty 16 gauge galvanized steel.

The housing shall be equipped with both a 2" pre-filter track and a 1" final filter track. Each track shall be constructed of extruded aluminum combined with reinforced nylon pile air seals to create a corrosion resistant air tight seal.



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