

Purolator®

Hi-E® 40 I, Class 1 Pleat

Standard Capacity, Medium Efficiency Pleated Filters



Introduction

Purolator Air Filtration's Hi-E 40I, Class 1 filter is a medium efficiency pleated filter specially constructed for use in systems requiring U.L. Class 1 listed products.

Media and Support

- The filter media is a special ¼" thick, high density ultra-fine fiberglass.
- The wedge shaped pleats on Purolator's Hi-E 40I, Class 1 filters are formed and supported using corrosion resistant, electro-galvanized, expanded steel.
- The filter media is bonded to the expanded metal to prevent media sagging or oscillation during operation.
- The fiberglass media gives the Hi-E 40I, Class 1 filter MERV 8 performance when evaluated using the ASHRAE 52.2-2007 test method.
- The Hi-E 40I, Class 1 filter is U.L. approved and tested. Testing on this product was performed in accordance with U.L. Standard 900 for Class 1 filters.

Suggested Product Specifications

1. The filter shall be the Hi-E 40I, Class 1 filter as manufactured by Purolator Air Filtration.
2. Air filters shall be (2") and (4") deep, medium efficiency, pleated media, disposable panel type.
3. The filter media shall be ¼" thick, high density ultra-fine fiberglass reinforced by a woven fiberglass mesh.
4. The filter media shall be bonded to a corrosion-resistant, expanded metal support grid with a 96% open face area.
5. To assure no dirty air bypass, the media grid assembly shall be bonded to all interior surfaces of the frame with solvent-free water-based glue.



6. The support grid shall be formed into a wedge configuration to optimize use of the filter media.
7. The filter shall be U.L. approved and tested. Testing shall be performed in accordance with U.L. Standard 900 for Class 1 filters.

Construction Features

- The perimeter frame on the Purolator Hi-E 40I Class 1 filter is constructed of Underwriters Laboratory approved non-flammable board.
- The pleated media is bonded upstream and downstream to diagonal support elements to increase filter stability.
- The filter media pack is bonded to the inside of the perimeter frame thereby eliminating air bypass.

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PERFORMANCE DATA: Hi-E 40 I, Class 1 Pleat

Series	Nominal ⁽¹⁾ size WxHxD	Actual size WxHxD	Hi-E 40I Model number	CFM ⁽²⁾ capacity 300FPM	CFM ⁽²⁾ capacity 500FPM	Resist. in. W.G. 300FPM	Resist. in. W.G. 500FPM	Resist. in. W.G. final ⁽³⁾	Total media area/filter
2 10 pleats per lineal foot of face area	12x24x2	11 ³ / ₈ x 23 ³ / ₈ x 1 ³ / ₄	HE40I-2402	750	1000	.27	.42	1.00	6.2
	16x20x2	15 ¹ / ₂ x 19 ¹ / ₂ x 1 ³ / ₄	HE40I-6002	825	1100	.27	.42	1.00	6.7
	16x25x2	15 ¹ / ₂ x 24 ¹ / ₂ x 1 ³ / ₄	HE40I-6502	1050	1400	.27	.42	1.00	8.4
	20x20x2	19 ¹ / ₂ x 19 ¹ / ₂ x 1 ³ / ₄	HE40I-0002	1050	1400	.27	.42	1.00	8.3
	20x25x2	19 ¹ / ₂ x 24 ¹ / ₂ x 1 ³ / ₄	HE40I-0502	1300	1750	.27	.42	1.00	10.3
	24x24x2	23 ³ / ₈ x 23 ³ / ₈ x 1 ³ / ₄	HE40I-4402	1500	2000	.27	.42	1.00	12.3
4 11 pleats per lineal foot of face area	12x24x4	11 ³ / ₈ x 23 ³ / ₈ x 3 ³ / ₄	HE40I-2404	1000	1250	.22	.37	1.00	11.2
	16x20x4	15 ¹ / ₂ x 19 ¹ / ₂ x 3 ³ / ₄	HE40I-6004	1100	1400	.22	.37	1.00	12.5
	16x25x4	15 ³ / ₈ x 24 ³ / ₈ x 3 ³ / ₄	HE40I-6504	1400	1750	.22	.37	1.00	15.6
	20x20x4	19 ¹ / ₂ x 19 ¹ / ₂ x 3 ³ / ₄	HE40I-0004	1400	1750	.22	.37	1.00	15.7
	20x25x4	19 ¹ / ₂ x 24 ¹ / ₂ x 3 ³ / ₄	HE40I-0504	1750	2170	.22	.37	1.00	19.6
	24x24x4	23 ³ / ₈ x 23 ³ / ₈ x 3 ³ / ₄	HE40I-4404	2000	2500	.22	.37	1.00	22.4

(1) Width and height dimensions are interchangeable. The Hi-E 40I may be installed with pleats running vertical or horizontal (vertical is preferred).

(2) Capacity ratings are recommended levels. Resistance to airflow data is based on the ASHRAE 52.2-2007 test method. Data is based on 492FPM face velocity on a 24x24 face area.

(3) The recommended final operating resistance is typical of systems currently in operation. The Hi-E 40I can be operated to higher or lower final resistance levels without adversely affecting filter efficiency.

P-HiE40IC1-1009



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