

Purolator®

Hi-E 40™ | Class 1 Pleat

Standard Capacity, Medium Efficiency Pleated Filters

Introduction

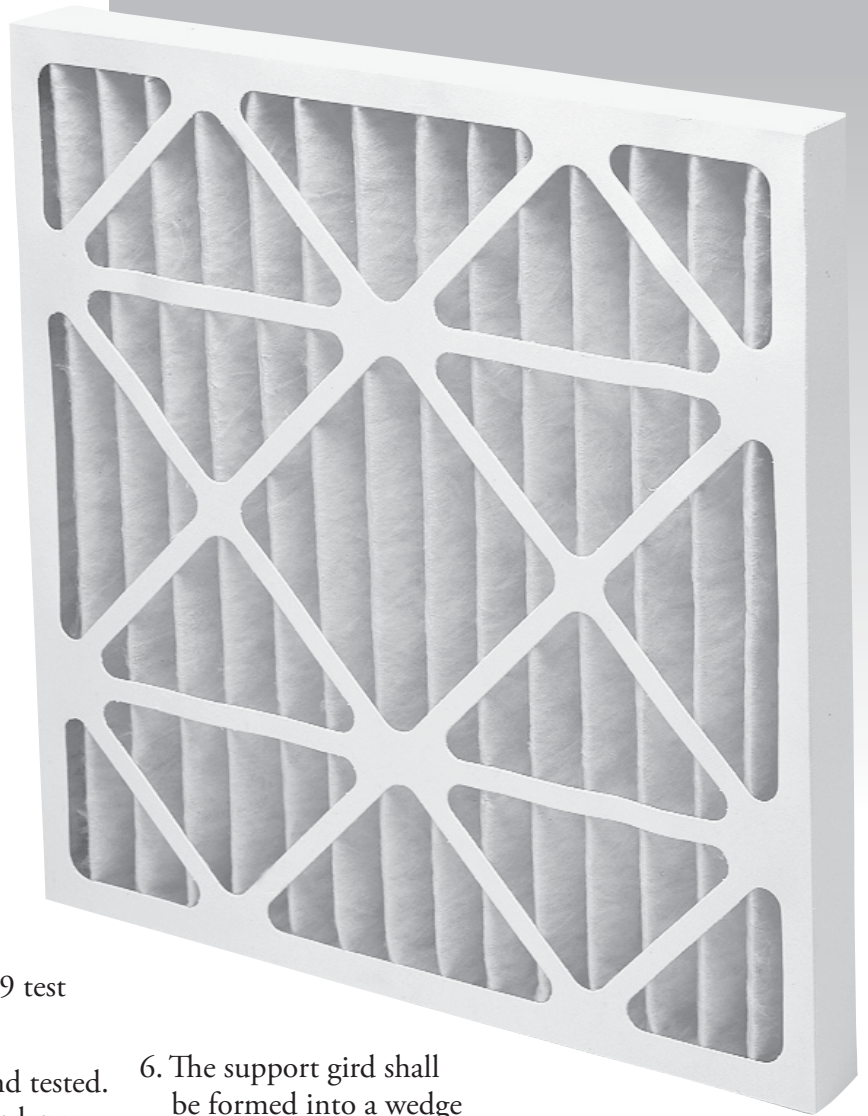
Purolator Air Filtration's Hi-E 40I Class 1 filter is a medium efficiency pleated filter specially constructed for use in systems requiring U.L. Class 1 listed products.

Media and Support

- The filter media is a special ¼" thick, high density ultra-fine fiberglass reinforced by a woven fiberglass mesh.
- 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 a 35-40% average efficiency and a 90-95% average arrestance when tested in accordance with the ASHRAE 52.1 - 1992 test method, MERV 8 per ASHRAE 52.2-1999 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.

Hi-E 40™ I Class 1 Pleat

Standard Capacity, Medium Efficiency Pleated Filters

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 ASHRAE 52.1-1992 Test Method. Performance tolerances conform to Section 7.4 of ARI Standard 850.93.

(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-HiE40IC1-508



www.purolatorair.com



CLARCOR Air Filtration Products

P. O. Box 32578 • Louisville, KY 40232

Customer Service Team: 1-866-925-2247 • Fax: 1-800-784-3458

Email: info@purolatorair.com • www.purolatorair.com

Distributed by:

© 2008 CLARCOR Air Filtration Products.
CLARCOR Air Filtration Products has a policy of continuous product research and development and reserves the right to change design and specifications without notice.
Terms and Conditions of Sale can be accessed in the "LOGIN" section at www.purolatorair.com