

# Purolator®

## Introduction

Purolator Air Filtration's Hi-E 40 H High Temperature filter is a medium efficiency pleated filter specially constructed for use in systems involving elevated operating temperatures.

## Media and Support

- The filter media is a special 1/4" thick, high density ultra-fine fiberglass reinforced by a woven fiberglass mesh.
- The wedge shaped pleats on Purolator's Hi-E 40H High Temperature filter 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.
- Operating temperature range: Constructed to operate at 500°F continuously.
- Hi-E 40H is MERV 8 per ASHRAE 52.2-2007
- As indicated by its name, the Hi-E 40H High Temperature filter is U.L. approved and tested. Testing on this product was performed in accordance with U.L. Standard 900 for Class 1 filters.

## Construction Features

- The perimeter frame on the Purolator Hi-E 40H High Temperature filter is constructed of 24-gauge aluminized steel.
- The pleated element is supported downstream by a 24-gauge expanded aluminized steel face guard to ensure stability of the media pak at elevated temperatures.

## Hi-E 40™ H High Temp Pleat

*Standard Capacity, Medium Efficiency Pleated Filter*



## Suggested product Specifications

1. The filter shall be the Hi-E 40H High Temperature as manufactured by Purolator Air Filtration.
2. Air filters shall be (2"), and (4") deep, medium efficiency, pleated media filter specifically constructed for elevated temperature conditions.
3. Air filters shall be constructed to operate at 500°F continuously.
4. The filter media shall be 1/4" thick, high density ultra-fine fiberglass reinforced by a woven fiberglass mesh.
5. The filter media shall be bonded to a corrosion resistant, expanded metal support grid with a 96% open face area.
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.

# Hi-E 40™ H High Temperature

Standard Capacity, Medium Efficiency Pleated Filter

## PERFORMANCE DATA: Hi-E 40H High Temp

Series	Hi-E 40H Model Number	Nominal <sup>(1)</sup> size WxHxD	Actual size WxHxD	CFM <sup>(2)</sup> capacity med	CFM <sup>(2)</sup> capacity high	Resist. in. W.G. med	Resist. in. W.G. high	Resist. in. W.G. final	Total media area/filter
<b>2</b> 12 pleats per lineal foot of face area	HE40H-STD2	12x24x2	11 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 1 <sup>3</sup> / <sub>4</sub>	750	1000	.35	.55	1.00	8.0
	HE40H-STD2	16x20x2	15 <sup>1</sup> / <sub>2</sub> x 19 <sup>1</sup> / <sub>2</sub> x 1 <sup>3</sup> / <sub>4</sub>	825	1100	.35	.55	1.00	8.8
	HE40H-STD2	16x25x2	15 <sup>1</sup> / <sub>2</sub> x 24 <sup>1</sup> / <sub>2</sub> x 1 <sup>3</sup> / <sub>4</sub>	1050	1400	.35	.55	1.00	11.0
	HE40H-STD2	20x20x2	19 <sup>1</sup> / <sub>2</sub> x 19 <sup>1</sup> / <sub>2</sub> x 1 <sup>3</sup> / <sub>4</sub>	1050	1400	.35	.55	1.00	11.0
	HE40H-STD2	20x25x2	19 <sup>1</sup> / <sub>2</sub> x 24 <sup>1</sup> / <sub>2</sub> x 1 <sup>3</sup> / <sub>4</sub>	1300	1750	.35	.55	1.00	13.6
	HE40H-STD2	24x24x2	23 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 1 <sup>3</sup> / <sub>4</sub>	1500	2000	.35	.55	1.00	14.2
<b>4</b> 11 pleats per lineal foot of face area	HE40H-STD4	12x24x4	11 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 3 <sup>7</sup> / <sub>8</sub>	1000	1250	.25	.45	1.00	12.4
	HE40H-STD4	16x20x4	15 <sup>1</sup> / <sub>2</sub> x 19 <sup>1</sup> / <sub>2</sub> x 3 <sup>7</sup> / <sub>8</sub>	1100	1400	.25	.45	1.00	14.6
	HE40H-STD4	16x25x4	15 <sup>1</sup> / <sub>2</sub> x 24 <sup>1</sup> / <sub>2</sub> x 3 <sup>7</sup> / <sub>8</sub>	1400	1750	.25	.45	1.00	18.3
	HE40H-STD4	20x20x4	19 <sup>1</sup> / <sub>2</sub> x 19 <sup>1</sup> / <sub>2</sub> x 3 <sup>7</sup> / <sub>8</sub>	1400	1750	.25	.45	1.00	18.8
	HE40H-STD4	20x25x4	19 <sup>1</sup> / <sub>2</sub> x 24 <sup>1</sup> / <sub>2</sub> x 3 <sup>7</sup> / <sub>8</sub>	1750	2170	.25	.45	1.00	23.5
	HE40H-STD4	24x24x4	23 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 3 <sup>7</sup> / <sub>8</sub>	2000	2500	.25	.45	1.00	26.1

(1) Capacity ratings are recommended levels. Test data per ASHRAE 52.2-2007, Based on a test velocity of 492 FPM for 24x24x2 and 24x24x4 nominal filters.

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

P-HIE40H-309



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