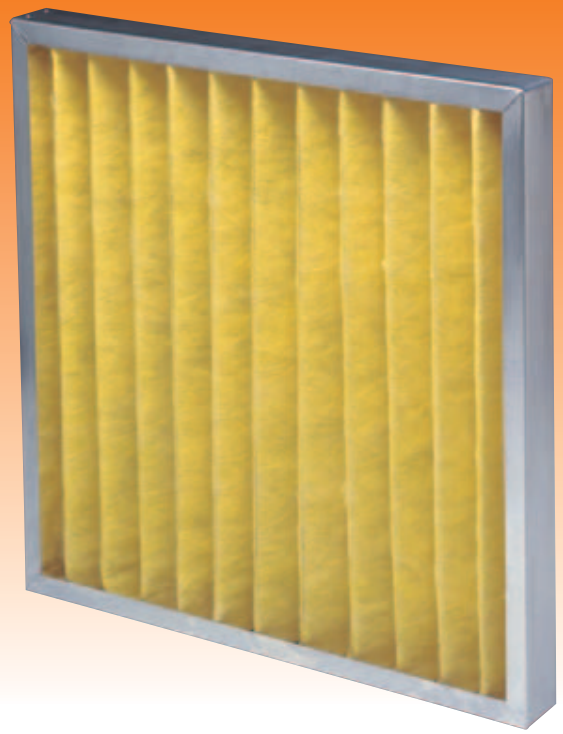
Hi-E® 40 H High Temp Pleat

Standard Capacity, Medium Efficiency Pleated Filter



Introduction

Purolator'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 40 H 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 40 H is MERV 8 per ASHRAE 52.2-2007.

Construction Features

- The perimeter frame on the Purolator Hi-E 40 H High Temperature filter is constructed of 24-gauge aluminized steel.

- The pleated element is supported downstream by a 24-gauge expanded aluminized steel faceguard to ensure stability of the media pack at elevated temperatures.

Suggested Product Specifications

1. The filter shall be the Hi-E 40 H High Temperature as manufactured by CLARCOR Air Filtration Proucts.
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. Classified per UL Standard 900 for flammability only.
8. Class 1 per UL Standard 5111.

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PERFORMANCE DATA: Hi-E 40 H High Temperature

Series	Hi-E 40 H Model Number	Nominal[1] size WxHxD	Actual size WxHxD	CFM[2] capacity med	CFM[2] capacity high	Resist. in. W.G. med	Resist. in. W.G. high	Resist. [3] in. W.G. final	Total media area/filter
2 12 pleats per lineal foot of face area	HE40H-STD2	12x24x2	11⅜ x 23⅜ x 1¾	750	1000	.35	.55	1.00	8.0
	HE40H-STD2	16x20x2	15½ x 19½ x 1¾	825	1100	.35	.55	1.00	8.8
	HE40H-STD2	16x25x2	15½ x 24½ x 1¾	1050	1400	.35	.55	1.00	11.0
	HE40H-STD2	20x20x2	19½ x 19½ x 1¾	1050	1400	.35	.55	1.00	11.0
	HE40H-STD2	20x25x2	19½ x 24½ x 1¾	1300	1750	.35	.55	1.00	13.6
	HE40H-STD2	24x24x2	23⅜ x 23⅜ x 1¾	1500	2000	.35	.55	1.00	14.2
4 11 pleats per lineal foot of face area	HE40H-STD4	12x24x4	11⅜ x 23⅜ x 3⅞	1000	1250	.25	.45	1.00	12.4
	HE40H-STD4	16x20x4	15½ x 19½ x 3⅞	1100	1400	.25	.45	1.00	14.6
	HE40H-STD4	16x25x4	15½ x 24½ x 3⅞	1400	1750	.25	.45	1.00	18.3
	HE40H-STD4	20x20x4	19½ x 19½ x 3⅞	1400	1750	.25	.45	1.00	18.8
	HE40H-STD4	20x25x4	19½ x 24½ x 3⅞	1750	2170	.25	.45	1.00	23.5
	HE40H-STD4	24x24x4	23⅜ x 23⅜ x 3⅞	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 40 H can be operated to higher or lower final resistance levels without materially affecting filter efficiency.
(3) Maximum final resistance 1.0" W.G.

P-HIE40H-0914

Purolator

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