

FILTER SELECTION DATA SHEET

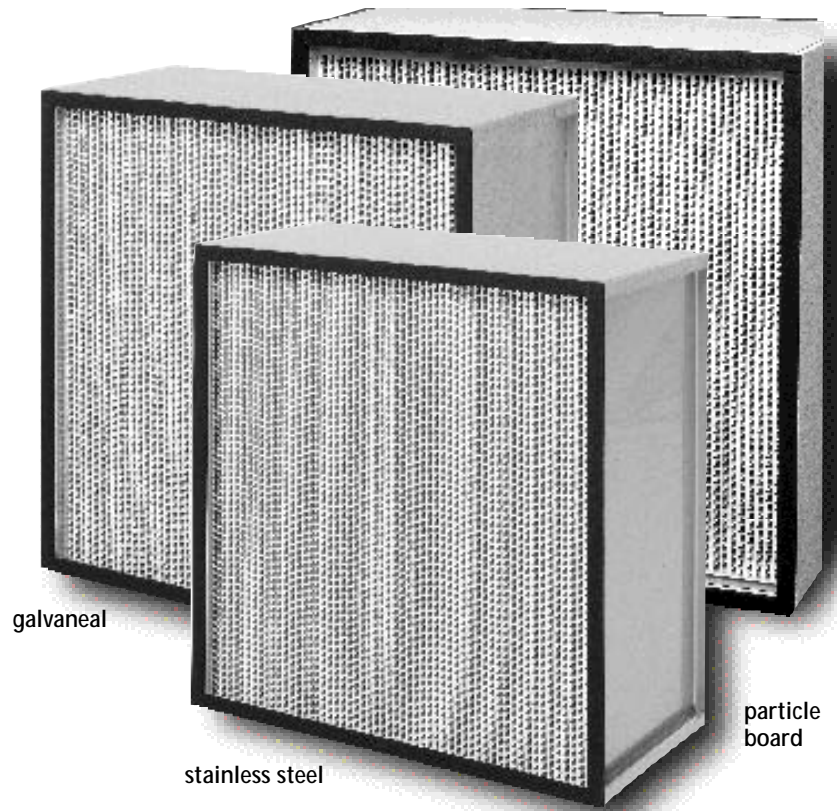
ULTRA-cell 99.97/99.99—2000 CFM

High Capacity Gasket Seal HEPA Filter

Purolator Filtration Systems

Introduction

- Purolator's High Capacity ULTRA-cell model is a high efficiency aluminum separator style filter designed for applications where increased air velocity is present and lower pressure drops are required
- Applications: Manufactured for environments requiring 99.97% efficiency on .3 micron, or 99.99% efficiency on .3 micron (scan tested to assure no leak shall exceed 0.01% of the upstream challenge).
- Its high surface area design provides the maximum amount of effective filter media area.
- Standard frame materials for the High Capacity ULTRA-cell are 16-gauge galvaneal, fire retardant particle board, and stainless steel.
- A high surface area to depth ratio provides the maximum amount of effective filter media in areas of minimum in-line duct space.
- Filter efficiencies range: 99.97-99.99%
- Available in many filter face sizes (see chart on back), and one depth—11-1/2".



Media and Support

- Media: Continuous sheet of non-combustible, water-proof, microfiberglass.
- Pleat configuration: Radi-edge configuration promotes maximum exposure of media surface area to airflow.
- Pleat support: Pleated around radi-edge, corrugated aluminum separators. All filter packs to be woven on our automatic weaving machine.

Construction features

- Frame: Available in various materials (see chart on back).
- The media pack is bonded and secured to the frame with a urethane based sealant. There is no wicking of the sealant in the media.

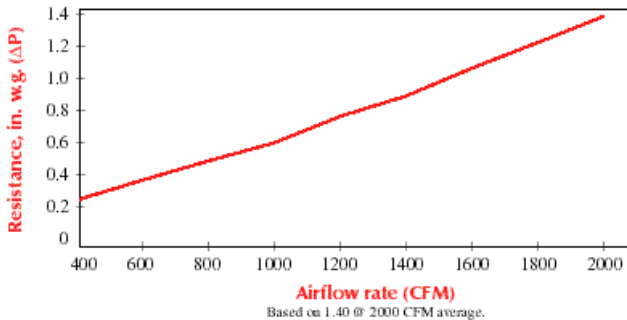
- Gasket seal: Neoprene gasketing material.
- U.L. Classification: As required, the High Capacity ULTRA-cell can meet U.L. 586 and U.L. 900 requirements. Contact factory for appropriate filter size/frame material.
- Bar coded for manufacturing traceability.
- Recommended operating temperature: 250°F.
- Filter frames are encapsulated during testing to insure there is no leakage through the filter frame.

(Construction features continued on back side)

Purolator

- testing: All High Capacity (2000 CFM) HEPA filters are tested in our state of the art testing facility. (Efficiency test conducted at 1000 CFM.) The 99.97% filters will be tested using a Dual Laser spectrometer for pressure drop and efficiency testing. Please note that DOP will not be used as an aerosol for an upstream challenge due to the contamination and offgassing concerns with this aerosol. Filters that are 99.99% will be scan tested for leaks that are .01% of the upstream challenge at 1000 CFM per sq. ft. of filter face area.

Pressure Drop Curve
UHGLV99-24024012-XBU-GND-00-00



Suggested product specifications

1. The filter shall be the High Capacity ULTRA-cell High Efficiency Particulate Air (HEPA) as manufactured and tested by Purolator Products Air Filtration Company.
2. Air filters shall be constructed in a clean environment using the latest technology in filter pleating and testing technology.
3. The filter pack shall be sealed to the filter frame using a urethane base sealant. Porous foam sealants shall not be used.
4. All filters shall be manufactured, tested, and packaged in a DOP free environment.
5. The filter media shall consist of a continuous sheet of non-combustible, waterproof, microfiberglass media pleated around radial-edge, corrugated aluminum separators. These separators shall fully support the media while exposing its maximum surface area to airflow.
6. Filter efficiency shall be based on using a Dual Laser Spectrometer for filters that are 99.97%.
7. A quality assurance program shall be in place to verify pressure drops, efficiencies and scan procedures.
8. All filters shall be bar coded for traceability.
9. All non-truckload orders shall be shrink wrapped and palletized.

*NOTE: Pressure drop on wood frame and double turned flange will be higher than noted since it based on our metal frame x-body construction.

Dimensions and part number designation:

1
3
5
7
U H G L V 9 7 - 2 4 0 2 4 0 1 2 - X B U - G N D - G U - 0 0
2
4
6
8

1. UH = ULTRA-cell High Capacity
2. Frame material option:
FPB = Fire retardant particle board
NPB = Non-fire retardant particle board
FPW = Fire retardant plywood
NPW = Non-fire retardant plywood
SSO = 16-gauge 304 Stainless steel
GLV = 16-gauge galvaneal
3. Efficiency option:
97 = 99.97% eff. on .3 micron
99 - 99.99% eff. on .3 micron (scan tested)
4. Size option:
24 x 12 x 11-1/2" = 24012012
24 x 24 x 11-1/2" = 24024012
24 x 18 x 11-1/2" = 24018012
24 x 30 x 11-1/2" = 24030012
5. Frame style sealant option:
XBU = X-Body/urethane sealant
6. Gasket seal options:
GND = Gasket/neoprene downstream
GNB = Gasket/neoprene both sides
GNU = Gasket/neoprene upstream
7. Faceguard location option:
00 = No face guard
GU = Galvanized upstream
GD = Galvanized downstream
GB = Galvanized both sides
SU = Stainless steel upstream
SD = Stainless steel downstream
SB = Stainless steel both sides
8. U.L. code option
09 = UL 900 required
05 = UL 586 required
00 = UL requirements not required

Purolator
Products Air Filtration Company

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