

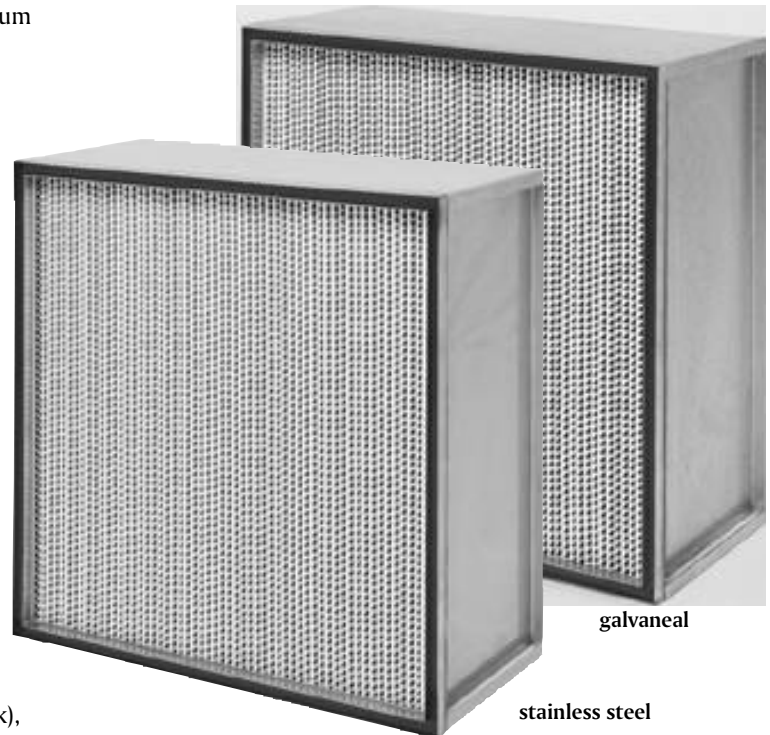
FILTER SELECTION DATA SHEET

ULTRA-CELL 95/99.97/99.99 High Efficiency Particulate Air (HEPA) Fluid Seal Filter

Purolator Filtration Systems

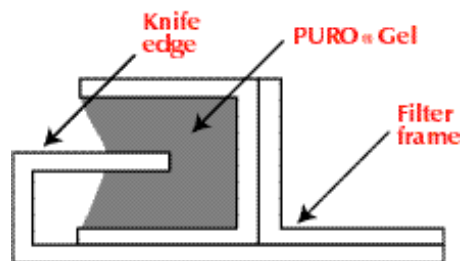
Introduction

- Purolator's ULTRA-CELL® is a high efficiency aluminum separator, fluid seal style filter.
- Applications: Manufactured for environments requiring 95% minimum efficiency on .3 micron particles, 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 ULTRA-CELL are 16-gauge galvaneal, stainless steel, or particle board.
- 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: 95-99.99%
- Available in many filter face sizes (see chart on back), and two depth sizes—5-7/8" and 11-1/2".



Media and Support

- Media: Continuous sheet of non-combustible, waterproof, 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.



Knife edge penetration of PURO Gel silicone seal

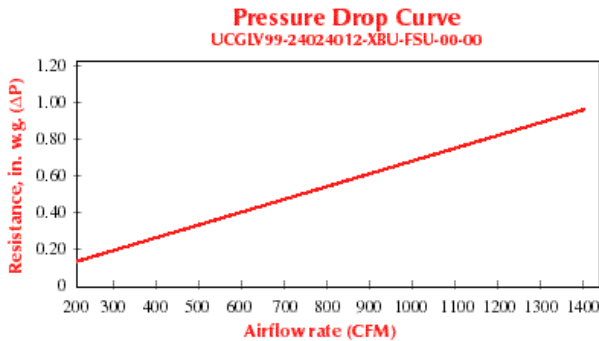
Construction features

- Frame: Available in various materials (see chart on back).
- The media pack is bonded and secured to the frame with a urethane based sealant.
- Fluid seal types: PURO® Gel silicone fluid seal for gel-seal applications (see diagram at left).
- U.L. Classification: If required, the ULTRA-CELL can meet U.L. 586 and U.L. 900 requirements. Contact factory for appropriate filter size/frame material.
- Recommended operating temperature: 250°F.

(Construction features continued on back side)

Purolator
Products Air Filtration Company

- Testing: All HEPA filters (except for the 95%) are tested in our state of the art testing facility. 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 100 CFM per sq. ft. of filter face area.



Suggested product specifications

1. The filter shall be the ULTRA-CELL® High Efficiency Particulate Air (HEPA) as manufactured 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.

Dimensions and part number designation:

1 3 5 7
UCGLV97-24024006-XBU-FSU-GU-09
 2 4 6 8

1. UC = ULTRA-CELL
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 = Type 304 Stainless steel
 GLV = 16-gauge galvaneal
3. Efficiency option:
 95 = 95% eff. on .3 micron
 97 = 99.97% eff. on .3 micron
 99 - 99.99% eff. on .3 micron (scan tested)
4. Size option:
 24 x 24 x 11-1/2" = 24024012
 24 x 18 x 11-1/2" = 24018012
 24 x 30 x 11-1/2" = 24030012
 24 x 24 x 5-7/8" = 24024006
 24 x 30 x 5-7/8" = 24030006
 24 x 36 x 5-7/8" = 24036006
 24 x 48 x 5-7/8" = 24048006
 24 x 12 x 5-7/8" = 24012006
5. Frame style sealant option:
 XBU = X-Body/urethane sealant
6. Fluid seal option:
 FSU = Fluid seal upstream
 FSD = Fluid seal downstream
 FCU = Fluid seal upstream with clips for fluid seal housing
 FCD = Fluid seal downstream with clips for fluid seal housing
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



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