



Introduction

Purolator's ULTRA-CELL is a high efficiency aluminum separator style HEPA filter designed for applications where increased air velocity is present and lower pressure drops are required.

Applications: Manufactured for environments requiring 95% minimum efficiency on .3 micron particles, 99.97% efficiency on .3 micron, 99.99% efficiency on .3 micron, or 99.999% on .3 micron (scan tested to assure no leak shall exceed 0.01% of the upstream challenge).

Filter efficiencies range: 95%, 99.97%, 99.99%, and 99.999% at 0.3 micron.

Available in many filter face sizes (see chart on back).

Available in two depth sizes for High Temp - 5 $\frac{7}{8}$ " and 11 $\frac{1}{2}$ ", and one depth size for gasket seal and fluid seal - 11 $\frac{1}{2}$ ".

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.

Construction Features

Frame: Available in various materials (see chart on back). 16 gauge, 304 stainless steel for High Temp.

Fluid Seal: PURO gel urethane fluid seal for gel-seal applications.

Gasket Seal: Dovetail urethane gasketing material.

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. (Silicone based sealant for high temp.).

U.L. Classification: As required, can meet U.L. 586 and U.L. 900 requirements. Contact factory for appropriate filter size/frame material.

Recommended maximum operating temperature: 160°F for Gasket Seal and Fluid Seal and 500°F for Gasket Seal High Temp.

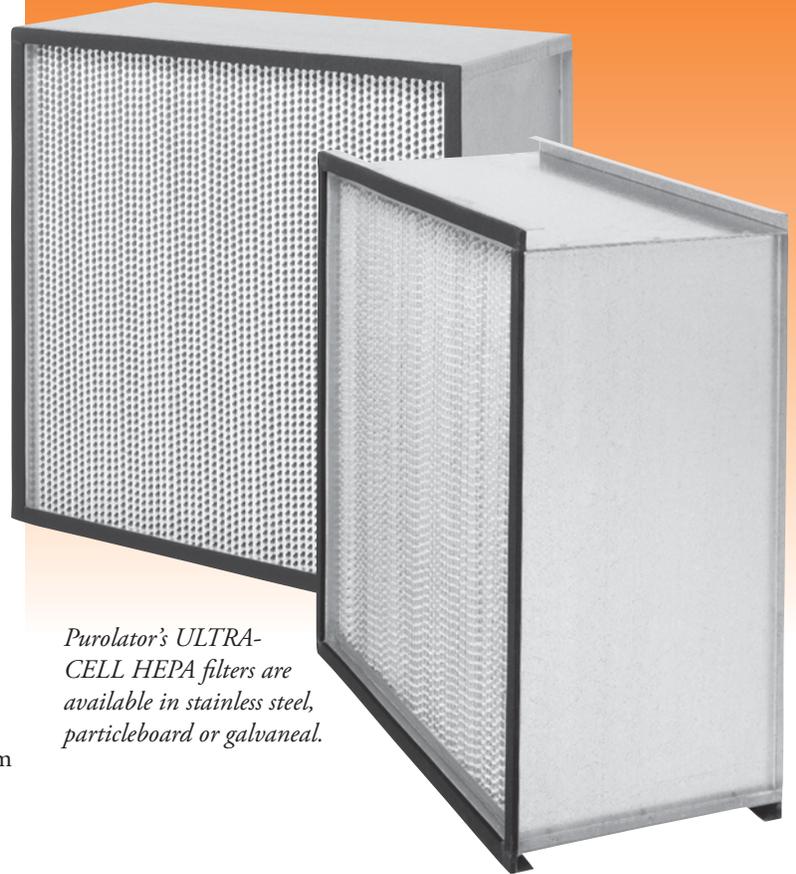
Testing: All HEPA filters (except 95%) are tested in our state of the art testing facility. The 99.97% filters will be tested for efficiency. Filters that are 99.99% will be scan tested for leaks that are .01% of the upstream challenge at 100 FPM per sq. ft. of filter face area.

ULTRA-CELL®

High Efficiency Filters (HEPA)

3 Types of Filters:

- Gasket Seal - 95/99.97/99.99 High Temp
- Gasket Seal - 99.97/99.99-2000 CFM
- Fluid Seal - 99.97/99.99-2000 CFM



Purolator's ULTRA-CELL HEPA filters are available in stainless steel, particleboard or galvaneal.

Suggested product specifications

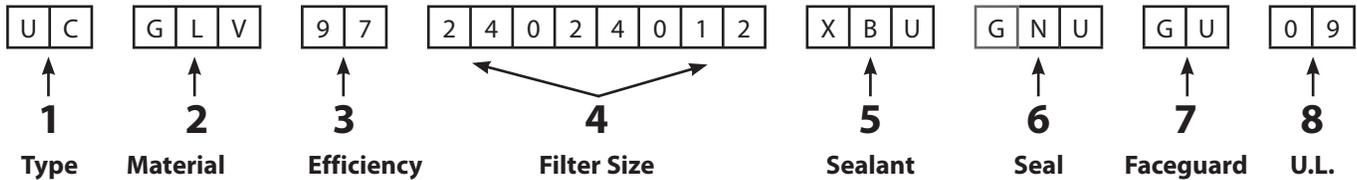
1. The filter shall be the ULTRA-CELL® High Efficiency Particulate Air (HEPA) as manufactured by Purolator.
2. Air filters shall be constructed in a clean environment using the latest technology in filter pleating and testing technology.
3. The filter pack shall be sealed to the filter frame using a urethane base sealant (silicone for High Temp). Porous foam sealants shall not be used.
4. 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.
5. Filter efficiency shall be 95%, 99.97-99.99% or 99.999% on .3 micron.
6. A quality assurance program shall be in place to verify pressure drops, efficiencies and scan procedures.
7. All non-truckload orders shall be shrink wrapped and palletized.
8. All filters shall be manufactured in an ISO9001/2000 factory.

ULTRA-CELL

High Capacity HEPA Filters

Ordering Information

The design and construction of Purolator Filtration System modules are coded with an assembly part number, divided into sections consisting of the following information:



Section 1: Type of Product

UC = ULTRA-CELL
UH = ULTRA-CELL High Capacity

Section 2: Frame material

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

Section 3: Efficiency option

95 = 95% on .3 micron
97 = 99.97% eff. on .3 micron
99 = 99.99% eff. on .3 micron (scan tested)

Section 4: Filter Size

24012012 = 24 x 12 x 11 1/2
24024012 = 24 x 24 x 11 1/2
24018012 = 24 x 18 x 11 1/2
24030012 = 24 x 30 x 11 1/2

Please note: When ordering HEPA filters all dimensions are exact

24024006 = 24 x 24 x 5 7/8
24030006 = 24 x 30 x 5 7/8
24036006 = 24 x 36 x 5 7/8
24048006 = 24 x 48 x 5 7/8
24012006 = 24 x 12 x 5 7/8

Section 5: Frame Style Sealant

XBU = X-Body/urethane sealant
DTU = Double turn flange/urethane
DTH = Double turn flange/silicone sealant

Section 6: Filter Seal

GND = Gasket/neoprene downstream
GNB = Gasket/neoprene both sides
GNU = Gasket/neoprene upstream
GSD = Gasket/silicone downstream
GSB = Gasket/silicone both sides
GSU = Gasket/silicone upstream
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

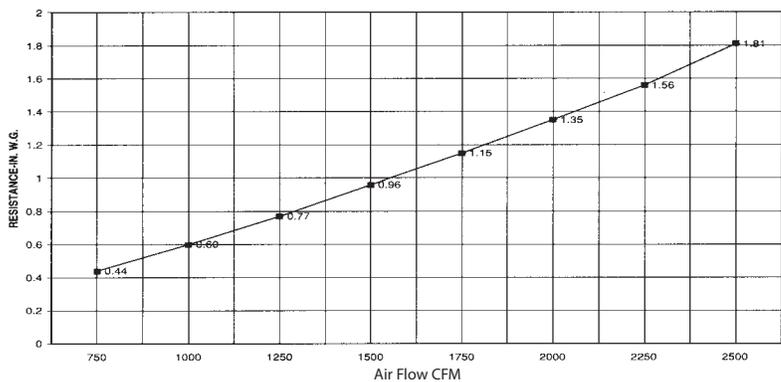
Section 7: Faceguard Location

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

Section 8: U.L. Classification

09 = UL 900 required
05 = UL 586 required
00 = UL requirements not required

ULTRA CELL HIGH CAPACITY 99.97 & 99.9 ON .3 MICRON (FLUID SEAL)



P-ULTRACELL-209



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