

## **FILTER SELECTION DATA SHEET**

**ULTRA-CELL 95/99.97/99.99 HIGH TEMP**  
High Efficiency Particulate Air (HEPA) 500°F Gasket Seal Filter

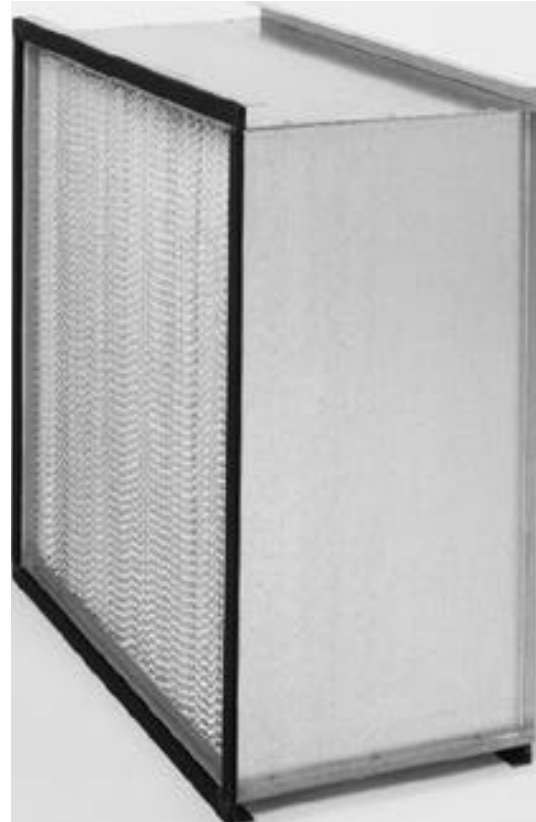
# **Purolator Filtration Systems**

### **Introduction**

- Purolator's high temperature ULTRA-CELL® filter is a high efficiency aluminum separator style filter designed for applications encountering temperatures up to 500°F.
- 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 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: 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, 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 16 gauge, 304 stainless steel.
- The media pack is bonded and secured to the frame with a silicone based sealant.
- Gasket seal: Silicone gasketing material.
- Recommended operating temperature: Up to 500°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 silicone 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  
**UCSSO97-24024006-DTH-GSU-GU-00**  
 2            4                            6            8

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| <ol style="list-style-type: none"> <li>1. UC = ULTRA-CELL</li> <li>2. Frame material option:<br/>SSO = Type 304 Stainless steel</li> <li>3. Efficiency option:<br/>95 = 95% eff. on .3 micron<br/>97 = 99.97% eff. on .3 micron<br/>99 - 99.99% eff. on .3 micron (scan tested)</li> <li>4. Size option:<br/>24 x 24 x 11-1/2" = 24024012<br/>24 x 18 x 11-1/2" = 24018012<br/>24 x 30 x 11-1/2" = 24030012<br/>24 x 24 x 5-7/8" = 24024006<br/>24 x 30 x 5-7/8" = 24030006<br/>24 x 36 x 5-7/8" = 24036006<br/>24 x 48 x 5-7/8" = 24048006<br/>24 x 12 x 5-7/8" = 24012006</li> </ol> | <ol style="list-style-type: none"> <li>5. Frame style sealant option:<br/>DTH = Double turn/flange/silicone sealant</li> <li>6. Gasket seal options:<br/>GSD = Gasket/silicone downstream<br/>GSB = Gasket/silicone both sides<br/>GSU = Gasket/silicone upstream</li> <li>7. Faceguard location option:<br/>00 = No face guard<br/>SU = Stainless steel upstream<br/>SD = Stainless steel downstream<br/>SB = Stainless steel both sides</li> <li>8. U.L. code option<br/>00 = Cannot obtain a UL rating with silicone sealant</li> </ol> |
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