ISSUED TO: Total Filtration Services Inc  
211 Depot St  
Goodlettsville TN 37072-1425

Please supply the following items or services in accordance with terms of your quotation, to TENNESSEE TECHNOLOGICAL UNIVERSITY Cookeville, Tennessee. ALL DELIVERY CHARGES ARE TO BE PREPAID AND INCLUDED IN THE PRICES SHOWN UNLESS OTHERWISE INDICATED BELOW. Cash discounts, when authorized, will be computed from the date of delivery or from the date correct invoice is received, whichever is later.

SHIP TO:  
915 N Whitney Ave  
Warehouse  
Cookeville TN 38505  
ATTN: Jim Crabtree - Warehouse

SEND INVOICE IN DUPLICATE TO:  
Tennessee Technological University  
Business Office, Box 5037  
Cookeville, Tennessee 38505-0001

TENNESSEE TECHNOLOGICAL UNIVERSITY IS AN EQUAL OPPORTUNITY, NON-RACIALLY IDENTIFIABLE, EDUCATIONAL INSTITUTION THAT DOES NOT DISCRIMINATE AGAINST INDIVIDUALS WITH DISABILITIES.

<table>
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<th>ITEM</th>
<th>QUANTITY</th>
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<th>DESCRIPTION</th>
<th>UNIT PRICE</th>
<th>EXTENSION</th>
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<td>CONTRACT to provide Air Filters to Tennessee Technological University from May 18, 2009, through May 17, 2010, with the option to renew up to four (4) additional years with mutual consent of the University and the Contractor.</td>
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<td>Prices are to be firm for a one (1) year period. At the time of renewal, Contractor may request prices increase(s) on item(s) to the extent such increase has been experienced by Contractor and written substantiation of increase can be provided by the manufacturer. University may accept requested price increase or choose to rebid, at its sole discretion.</td>
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TOTAL: CONTINUED

The terms and conditions printed on the reverse side of this purchase order and any duly authorized change orders shall be the sole terms and conditions that apply to this purchase and shall prevail over any subsequent terms and conditions set forth by the Vendor on invoices or in any other manner, unless otherwise expressly agreed to in writing by the University.

ACCOUNTING INFORMATION:

AUTHORIZED SIGNATURE: [Signature]
FOR TENNESSEE TECHNOLOGICAL UNIVERSITY
### PURCHASE ORDER

**PO Number:** P0002959  
**Issue Date:** 05/18/09  
**Page No:** 2  
**Delivery Date:**  

Please supply the following items or services in accordance with terms of your quotation, to TENNESSEE TECHNOLOGICAL UNIVERSITY Cookeville, Tennessee. ALL DELIVERY CHARGES ARE TO BE PREPAID AND INCLUDED IN THE PRICES SHOWN UNLESS OTHERWISE INDICATED BELOW. Cash discounts, when authorized, will be computed from the date of delivery or from the date correct invoice is received, whichever is later.

#### SHIP TO:

| 915 N Whitney Ave  
Warehouse  
Cookeville TN 38505  
ATTN: Jim Crabtree - Warehouse |

#### SEND INVOICE IN DUPLICATE TO:

| Tennessee Technological University  
Business Office, Box 5037  
Cookeville, Tennessee 38505-0001 |

---

**TENNESSEE TECHNOLOGICAL UNIVERSITY IS AN EQUAL OPPORTUNITY, NON-RACIALLY IDENTIFIABLE, EDUCATIONAL INSTITUTION THAT DOES NOT DISCRIMINATE AGAINST INDIVIDUALS WITH DISABILITIES.**

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The terms and conditions printed on the reverse side of this purchase order and any duly authorized change orders shall be the sole terms and conditions that apply to this purchase and shall prevail over any subsequent terms and conditions set forth by the Vendor on invoices or in any other manner, unless otherwise expressly agreed to in writing by the University.

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**ACCOUNTING INFORMATION:**  

**AUTHORIZED SIGNATURE:**

[Signature]

FOR TENNESSEE TECHNOLOGICAL UNIVERSITY
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ATTACHMENT B – FILTER SPECIFICATIONS:

All filters shall be rated for operating temperatures to 150° F and be classified as Class 2 according to U.L. Standard 900.

DISPOSABLE PANEL FILTERS:
Disposable panel filters shall be the same or superior to Purolator F312 as manufactured by Purolator Products Company. It shall be the vendor’s responsibility to prove equivalency or superiority for any product other than Purolator F312. Filters shall have a one piece frame sealed to the media under heat and pressure to eliminate air bypass, not just glued. The fiberglass filter media shall be evenly coated with a gelled adhesive to enhance filtration capability and prevent migration of finer particles. Filters shall have an Average Arrestance of 65-70% when tested by AHSRAE 52.1-1992. A non-metal scrim backing shall be laminated to the fiberglass to provide downstream support of the media. A metal support is not acceptable.

POLY FILTERS:
Poly filters shall be the same or superior to Purolator Activator Series 2-ply panel/link filters. It shall be the contractor’s responsibility to prove equivalency or superiority for any product other than Purolator Activator. Provide filters rated MERV 6 based on ASHRAE Standard 52.2-1999. The filters shall be fabricated using multiple layers of media composed of multi-denier, graduated density synthetic fibers with a thickness of 1". Medias shall provide gradient density for maximum contaminant loading. A dry type tackifier shall be applied to the air exit surface of the downstream layer to improve filter efficiency and dirt holding capacity. The tackifier shall be odorless, non-migrating, and shall not evaporate. The synthetic media shall be non-toxic, unaffected by extremes of temperature or humidity, and shall not support growth of fungus.

Incorporated between the media layers shall be an internal 9-gauge wire support frame with horizontal cross members. A minimum of ¼” of media shall extend around the periphery of the wire frame to provide a positive seal against bypass air flow.

AUTOMATIC ROLL FILTER MEDIA:
Automatic roll filter media shall be the same or superior to Purolator Type YTS. It shall be the contractor’s responsibility to prove equivalency or superiority for any product other than Purolator Type YTS. Media shall be fabricated using continuous filament glass fibers, with a non-metal scrim backing to provide downstream support of the media. Media shall be spun with a progressive density fiber arrangement to allow dirt particles to penetrate deeper into the media. Utilization of the full depth of the media shall prevent face loading and increase dust holding capacity of the filter. Filters shall have an Average Arrestance of 80-85% when tested by AHSRAE 52.1-1992. Each roll shall be a minimum 65' long filter media with the width and core as specified. All rolls shall have a metal core. 1" diameter cores shall be compatible with AAF Roll-O-Matic equipment. 2" cores shall be compatible with BLC Industries equipment. 3" cores shall be compatible with Continental Conomatic equipment. Each roll shall have a five-foot long paper leader and trailer for ease of installation.
PLEATED FILTERS:
Provide filters to be rated 25 to 35% average dust spot efficiency by ASHRAE Standard 52.1-1992 atmospheric dust spot method, and MERV 7 based on ASHRAE Standard 52.2-1999. Each filter shall consist of a disposable, pleated non-woven cotton media, media support grid, and continuously laminated to an enclosing frame to eliminate air bypass. Filters shall be capable of operating up to 625 fpm face velocity without loss of filter efficiency and dust holding capacity.

CARTRIDGE FILTERS:
Provide cartridge filters constructed with a continuous sheet of fine-fiber media made into closely spaced pleats with safe-edged aluminum separators. Filters shall be factory sealed into a metal frame assembled in a rigid manner. Gasket material shall be installed in the metal header of the filter to prevent air filter bypass where the metal headers meet on the side access racks.

Cartridge type filter to be rated with a minimum average dust spot efficiency of 60 to 65% by ASHRAE Standard 52.1-1992 atmospheric dust spot method, and MERV 12 based on ASHRAE Standard 52.2-1999. Filters shall be capable of operating up to 625 fpm face velocity without loss of filter efficiency and dust holding capacity.