

**COUNTY OF FRESNO**  
**REQUEST FOR QUOTATION**  
**NUMBER: 578-5277**

**HVAC AIR FILTERS**

June 2, 2014

ORG/Requisition: 8935/ 13214011332

PURCHASING USE  
ssi

G:\PUBLIC\RFQ\578-5277 HVAC AIR FILTERS.DOC

**IMPORTANT: SUBMIT QUOTATION IN SEALED PACKAGE WITH QUOTATION NUMBER, CLOSING DATE AND BUYER'S NAME MARKED CLEARLY ON THE OUTSIDE TO:**

COUNTY OF FRESNO, Purchasing  
4525 EAST HAMILTON AVENUE, 2<sup>nd</sup> Floor  
FRESNO, CA 93702-4599

**CLOSING DATE OF BID WILL BE AT 2:00 P.M., ON JUNE 26, 2014.**

**QUOTATIONS WILL BE CONSIDERED LATE WHEN THE OFFICIAL PURCHASING TIME CLOCK READS 2:00 P.M.**

All quotation information will be available for review after contract award.

Clarification of specifications is to be directed to: Shannon W. Kirby, e-mail [skirby@co.fresno.ca.us](mailto:skirby@co.fresno.ca.us), phone (559) 600-7116, FAX (559) 600-7126.

**GENERAL CONDITIONS:** See "County Of Fresno Purchasing Standard Instructions And Conditions For Request For Proposals (RFP'S) and Requests for Quotations (RFQ'S)" attached. Check County of Fresno Purchasing's Open Solicitations website at <https://www2.co.fresno.ca.us/0440/Bids/BidsHome.aspx> for RFQ/RFP documents and changes.

**BIDDER TO COMPLETE**

UNDERSIGNED AGREES TO FURNISH THE COMMODITY OR SERVICE STIPULATED IN THE ATTACHED QUOTATION SCHEDULE AT THE PRICES AND TERMS STATED, SUBJECT TO THE "COUNTY OF FRESNO PURCHASING STANDARD INSTRUCTIONS AND CONDITIONS FOR REQUEST FOR PROPSALS (RFP'S) AND REQUESTS FOR QUOTATIONS (RFQ'S)" ATTACHED.

Except as noted on individual items, the following will apply to all items in the Quotation Schedule.

1. Complete delivery will be made within \_\_\_\_\_ calendar days after receipt of Order.
2. A cash discount \_\_\_\_\_ % \_\_\_\_\_ days will apply.

COMPANY \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_

STATE \_\_\_\_\_

ZIP CODE \_\_\_\_\_

( ) \_\_\_\_\_

( ) \_\_\_\_\_

TELEPHONE NUMBER

FACSIMILE NUMBER

E-MAIL ADDRESS \_\_\_\_\_

SIGNED BY \_\_\_\_\_

PRINT NAME \_\_\_\_\_

TITLE \_\_\_\_\_

## COUNTY OF FRESNO PURCHASING

### STANDARD INSTRUCTIONS AND CONDITIONS FOR REQUESTS FOR PROPOSALS (RFP'S) AND REQUESTS FOR QUOTATIONS (RFQ'S)

Note: the reference to "bids" in the following paragraphs applies to RFP's and RFQ's

## GENERAL CONDITIONS

By submitting a bid the bidder agrees to the following conditions. These conditions will apply to all subsequent purchases based on this bid.

1. BID PREPARATION:

- A) All prices and notations must be typed or written in ink. No erasures permitted. Errors may be crossed out, initialed and corrections printed in ink by person signing bid.
- B) Brand Names: Brand names and numbers when given are for reference. Equal items will be considered, provided the offer clearly describes the article and how it differs from that specified. In the absence of such information it shall be understood the offering is exactly as specified.
- C) State brand or make of each item. If bidding on other than specified, state make, model and brand being bid and attach supporting literature/specifications to the bid.
- D) Bid on each item separately. Prices should be stated in units specified herein. All applicable charges must be quoted; charges on invoice not quoted herein will be disallowed.
- E) Time of delivery is a part of the consideration and must be stated in definite terms and must be adhered to. F.O.B. Point shall be destination or freight charges must be stated.
- F) All bids must be dated and signed with the firm's name and by an authorized officer or employee.
- G) Unless otherwise noted, prices shall be firm for one hundred eighty (180) days after closing date of bid.

2. SUBMITTING BIDS:

- A) Each bid must be submitted on forms provided in a sealed envelope/package with bid number and closing date and time on the outside of the envelope/package.
- B) Interpretation: Should any discrepancies or omissions be found in the bid specifications or doubt as to their meaning, the bidder shall notify the Buyer in writing at once. The County shall not be held responsible for verbal interpretations. Questions regarding the bid must be received by Purchasing stated within this document. All addenda issued shall be in writing, duly issued by Purchasing and incorporated into the contract.
- C) ISSUING AGENT/AUTHORIZED CONTACT: This RFP/RFQ has been issued by County of Fresno, Purchasing. Purchasing shall be the vendor's sole point of contact with regard to the RFP/RFQ, its content, and all issues concerning it.

All communication regarding this RFP/RFQ shall be directed to an authorized representative of County Purchasing. The specific buyer managing this RFP/RFQ is identified on the cover page, along with his or her telephone number, and he or she should be the primary

point of contact for discussions or information pertaining to the RFP/RFQ. Contact with any other County representative, including elected officials, for the purpose of discussing this RFP/RFQ, its content, or any other issue concerning it, is prohibited unless authorized by Purchasing. Violation of this clause, by the vendor having unauthorized contact (verbally or in writing) with such other County representatives, may constitute grounds for rejection by Purchasing of the vendor's quotation.

The above stated restriction on vendor contact with County representatives shall apply until the County has awarded a purchase order or contract to a vendor or vendors, except as follows. First, in the event that a vendor initiates a formal protest against the RFP/RFQ, such vendor may contact the appropriate individual, or individuals who are managing that protest as outlined in the County's established protest procedures. All such contact must be in accordance with the sequence set forth under the protest procedures. Second, in the event a public hearing is scheduled before the Board of Supervisors to hear testimony prior to its approval of a purchase order or contract, any vendor may address the Board.

- D) Bids received after the closing time will NOT be considered.
- E) Bidders are to bid what is specified or requested first. If unable to or unwilling to, bidder may bid alternative or option, indicating all advantages, disadvantages and their associated cost.
- F) Public Contract Code Section 7028.15

Where the State of California requires a Contractor's license, it is a misdemeanor for any person to submit a bid unless specifically exempted.

3. FAILURE TO BID:

- A) If not bidding, return bid sheet and state reason for no bid or your name may be removed from mailing list.

4. TAXES, CHARGES AND EXTRAS:

- A) County of Fresno is subject to California sales and/or use tax (8.225%). Please indicate as a separate line item if applicable.
- B) **DO NOT** include Federal Excise Tax. County is exempt under Registration No. 94-73-03401-K.
- C) County is exempt from Federal Transportation Tax. Exemption certificate is not required where shipping papers show consignee as County of Fresno.
- D) Charges for transportation, containers, packing, etc. will not be paid unless specified in bid.

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### 5. W-9 – REQUEST FOR TAXPAYER IDENTIFICATION NUMBER AND CERTIFICATION & CALIFORNIA FORM 590 WITHHOLDING EXEMPTION CERTIFICATE:

Upon award of bid, the vendor shall submit to County Purchasing, a completed IRS Form W-9 - Request for Taxpayer Identification Number and Certification and a California Form 590 Withholding Exemption Certificate if not currently a County of Fresno approved vendor.

### 6. AWARDS:

- A) Award(s) will be made to the most responsive responsible bidder; however, the Fresno County Local Vendor Preference and/or the Disabled Veteran Business Enterprise Preference shall take precedence when applicable. Said Preferences apply only to Request for Quotations for materials, equipment and/or supplies only (no services); the preference do not apply to Request for Proposals. RFQ evaluations will include such things as life-cycle cost, availability, delivery costs and whose product and/or service is deemed to be in the best interest of the County. The County shall be the sole judge in making such determination.
- B) Unless bidder gives notice of all-or-none award in bid, County may accept any item, group of items or on the basis of total bid.
- C) The County reserves the right to reject any and all bids and to waive informalities or irregularities in bids.
- D) Award Notices are tentative: Acceptance of an offer made in response to this RFP/RFQ shall occur only upon execution of an agreement by both parties or issuance of a valid written Purchase Order by Fresno County Purchasing.
- E) After award, all bids shall be open to public inspection. The County assumes no responsibility for the confidentiality of information offered in a bid.

### 7. TIE BIDS:

All other factors being equal, the contract shall be awarded to the Fresno County vendor or, if neither or both are Fresno County vendors, it may be awarded by the flip of a coin in the presence of witnesses or the entire bid may be rejected and re-bid. If the General Requirements of the RFQ state that they are applicable, the provisions of the Fresno County Local Vendor Preference shall take priority over this paragraph.

### 8. PATENT INDEMNITY:

The vendor shall hold the County, its officers, agents and employees, harmless from liability of any nature or kind, including costs and expenses, for infringement or use of any copyrighted or uncopyrighted composition, secret process, patented or unpatented invention, article or appliance furnished or used in connection with this bid.

### 9. SAMPLES:

Samples, when required, must be furnished and delivered free and, if not destroyed by tests, will upon written request (within thirty (30) days of bid closing date) be returned at the bidder's expense. In the absence of such notification, County shall have the right to dispose of the samples in whatever manner it deems appropriate.

### 10. RIGHTS AND REMEDIES OF COUNTY FOR DEFAULT:

- A) In case of default by vendor, the County may procure the articles or service from another source and may recover the cost difference and related expenses occasioned thereby from any unpaid balance due the vendor or by proceeding against performance bond of the

vendor, if any, or by suit against the vendor. The prices paid by the County shall be considered the prevailing market price at the time such purchase is made.

- B) Articles or services, which upon delivery inspection do not meet specifications, will be rejected and the vendor will be considered in default. Vendor shall reimburse County for expenses related to delivery of non-specified goods or services.
- C) Regardless of F.O.B. point, vendor agrees to bear all risks of loss, injury or destruction to goods and materials ordered herein which occur prior to delivery and such loss, injury or destruction shall not release vendor from any obligation hereunder.

### 11. DISCOUNTS:

Terms of less than fifteen (15) days for cash payment will be considered as net in evaluating this bid. A discount for payment within fifteen (15) days or more will be considered in determining the award of bid. Discount period will commence either the later of delivery or receipt of invoice by the County. Standard terms are Net forty-five (45) days.

### 12. SPECIAL CONDITIONS IN BID SCHEDULE SUPERSEDE GENERAL CONDITIONS:

The "General Conditions" provisions of this RFP/RFQ shall be superseded if in conflict with any other section of this bid, to the extent of any such conflict.

### 13. SPECIAL REQUIREMENT:

With the invoice or within twenty-five (25) days of delivery, the seller must provide to the County a Material Safety Data Sheet for each product, which contains any substance on "The List of 800 Hazardous Substances", published by the State Director of Industrial Relations. (See Hazardous Substances Information and Training Act. California State Labor Code Sections 6360 through 6399.7.)

### 14. RECYCLED PRODUCTS/MATERIALS:

Vendors are encouraged to provide and quote (with documentation) recycled or recyclable products/materials which meet stated specifications.

### 15. YEAR COMPLIANCE WARRANTY:

Vendor warrants that any product furnished pursuant to this Agreement/order shall support a four-digit year format and be able to accurately process date and time data from, into and between the twentieth and twenty-first centuries, as well as leap year calculations. "Product" shall include, without limitation, any piece or component of equipment, hardware, firmware, middleware, custom or commercial software, or internal components or subroutines therein. This warranty shall survive termination or expiration of this Agreement.

In the event of any decrease in product functionality or accuracy related to time and/or date data related codes and/or internal subroutines that impede the product from operating correctly using dates beyond December 31, 1999, vendor shall restore or repair the product to the same level of functionality as warranted herein, so as to minimize interruption to County's ongoing business process, time being of the essence. In the event that such warranty compliance requires the acquisition of additional programs, the expense for any such associated or additional acquisitions, which may be required, including, without limitation, data conversion tools, shall be borne exclusively by vendor. Nothing in this warranty shall be construed to limit any rights or remedies the County may otherwise have under this Agreement with respect to defects other than year performance.

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### 16. PARTICIPATION:

Bidder may agree to extend the terms of the resulting contract to other political subdivision, municipalities and tax-supported agencies.

Such participating Governmental bodies shall make purchases in their own name, make payment directly to bidder, and be liable directly to the bidder, holding the County of Fresno harmless.

### 17. CONFIDENTIALITY:

All services performed by vendor shall be in strict conformance with all applicable Federal, State of California and/or local laws and regulations relating to confidentiality, including but not limited to, California Civil Code, California Welfare and Institutions Code, Health and Safety Code, California Code of Regulations, Code of Federal Regulations.

Vendor shall submit to County's monitoring of said compliance.

Vendor may be a business associate of County, as that term is defined in the "Privacy Rule" enacted by the Health Insurance Portability and Accountability Act of 1996 (HIPAA). As a HIPAA Business Associate, vendor may use or disclose protected health information ("PHI") to perform functions, activities or services for or on behalf of County as specified by the County, provided that such use or disclosure shall not violate HIPAA and its implementing regulations. The uses and disclosures of PHI may not be more expansive than those applicable to County, as the "Covered Entity" under HIPAA's Privacy Rule, except as authorized for management, administrative or legal responsibilities of the Business Associate.

Vendor shall not use or further disclose PHI other than as permitted or required by the County, or as required by law without written notice to the County.

Vendor shall ensure that any agent, including any subcontractor, to which vendor provides PHI received from, or created or received by the vendor on behalf of County, shall comply with the same restrictions and conditions with respect to such information.

### 18. APPEALS:

Appeals must be submitted in writing within seven (7) working days after notification of proposed recommendations for award. A "Notice of Award" is not an indication of County's acceptance of an offer made in response to this RFP/RFQ. Appeals should be submitted to County of Fresno Purchasing, 4525 E. Hamilton Avenue, Fresno, California 93702-4599. Appeals should address only areas regarding RFP contradictions, procurement errors, quotation rating discrepancies, legality of procurement context, conflict of interest, and inappropriate or unfair competitive procurement grievance regarding the RFP/RFQ process.

Purchasing will provide a written response to the complainant within seven (7) working days unless the complainant is notified more time is required.

If the protesting bidder is not satisfied with the decision of Purchasing, he/she shall have the right to appeal to the Purchasing Agent/CAO within seven (7) business days after Purchasing's notification; except if, notified to appeal directly to the Board of Supervisors at the scheduled date and time.

If the protesting bidder is not satisfied with Purchasing Agent/CAO's decision, the final appeal is with the Board of Supervisors.

### 19. OBLIGATIONS OF CONTRACTOR:

A) CONTRACTOR shall perform as required by the ensuing contract. CONTRACTOR also warrants on behalf of itself and all

subcontractors engaged for the performance of the ensuing contract that only persons authorized to work in the United States pursuant to the Immigration Reform and Control Act of 1986 and other applicable laws shall be employed in the performance of the work hereunder.

B) CONTRACTOR shall obey all Federal, State, local and special district laws, ordinances and regulations.

### 20. AUDITS & RETENTION:

The Contractor shall maintain in good and legible condition all books, documents, papers, data files and other records related to its performance under this contract. Such records shall be complete and available to Fresno County, the State of California, the federal government or their duly authorized representatives for the purpose of audit, examination, or copying during the term of the contract and for a period of at least three (3) years following the County's final payment under the contract or until conclusion of any pending matter (e.g., litigation or audit), whichever is later. Such records must be retained in the manner described above until all pending matters are closed.

### 21. DISCLOSURE – CRIMINAL HISTORY & CIVIL ACTIONS:

Applies to Request for Proposal (RFP); does not apply to Request for Quotation (RFQ) unless specifically stated elsewhere in the RFQ document.

In their proposal, the bidder is required to disclose if any of the following conditions apply to them, their owners, officers, corporate managers and partners (hereinafter collectively referred to as "Bidder"):

- Within the three-year period preceding the proposal, they have been convicted of, or had a civil judgment rendered against them for:
  - fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (federal, state, or local) transaction or contract under a public transaction;
  - violation of a federal or state antitrust statute;
  - embezzlement, theft, forgery, bribery, falsification, or destruction of records; or
  - false statements or receipt of stolen property

Within a three-year period preceding their proposal, they have had a public transaction (federal, state, or local) terminated for cause or default.

### 22. DATA SECURITY:

Individuals and/or agencies that enter into a contractual relationship with the COUNTY for the purpose of providing services must employ adequate controls and data security measures, both internally and externally to ensure and protect the confidential information and/or data provided to contractor by the COUNTY, preventing the potential loss, misappropriation or inadvertent access, viewing, use or disclosure of COUNTY data including sensitive or personal client information; abuse of COUNTY resources; and/or disruption to COUNTY operations.

Individuals and/or agencies may not connect to or use COUNTY networks/systems via personally owned mobile, wireless or handheld devices unless authorized by COUNTY for telecommuting purposes and provide a secure connection; up to date virus protection and mobile devices must have the remote wipe feature enabled. Computers or computer peripherals including mobile storage devices may not be used (COUNTY or Contractor device) or brought in for use into the COUNTY's system(s) without prior authorization from COUNTY's Chief Information Officer and/or designee(s).

No storage of COUNTY's private, confidential or sensitive data on any hard-disk drive, portable storage device or remote storage installation unless



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encrypted according to advance encryption standards (AES of 128 bit or higher).

The COUNTY will immediately be notified of any violations, breaches or potential breaches of security related to COUNTY's confidential information, data and/or data processing equipment which stores or processes COUNTY data, internally or externally.

COUNTY shall provide oversight to Contractor's response to all incidents arising from a possible breach of security related to COUNTY's confidential client information. Contractor will be responsible to issue any notification to affected individuals as required by law or as deemed necessary by COUNTY in its sole discretion. Contractor will be responsible for all costs incurred as a result of providing the required notification.

### 23. PURCHASING LOCATION & HOURS:

Fresno County Purchasing is located at 4525 E. Hamilton Avenue (second floor), Fresno, CA 93702. Non-holiday hours of operation are Monday through Friday, 8:00 A.M. to 12:00 Noon and 1:00 P.M. to 5:00 P.M. PST; Purchasing is closed daily from 12:00 Noon to 1:00 P.M. The following holiday office closure schedule is observed:

January 1*	New Year's Day
Third Monday in January	Martin Luther King, Jr.'s Birthday
Third Monday in February	Washington - Lincoln Day
March 31*	Cesar Chavez' Birthday
Last Monday in May	Memorial Day
July 4*	Independence Day
First Monday in September	Labor Day
November 11*	Veteran's Day
Fourth Thursday in November	Thanksgiving Day
Friday following Thanksgiving	
December 25*	Christmas

\* When this date falls on a Saturday, the holiday is observed the preceding Friday. If the date falls on a Sunday, the holiday is observed the following Monday.

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## BIDDING INSTRUCTIONS CONTRACT SERVICES AND SUPPLY

The County of Fresno Purchasing on behalf of various County Departments, is soliciting bids to establish an agreement for the purchase of HVAC Air Filters on an as needed basis as specified within this Request for Quotation.

The items listed on the Quotation Schedule are a small sampling of items purchased by County Departments during a recent one year period and are being used for bidding purposes only. The County reserves the right to increase or decrease quantities and guarantees no minimum amount.

**The intent of these specifications is to describe new HVAC replacement filters as required for various equipment owned and/or operated by the County of Fresno.**

**Comply/  
Not Comply**

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1. All items provided under this contract shall be equal to original equipment manufacturer's specifications or better and shall be identical in size, design and a direct replacement for items requested without any modifications. All items shall meet or exceed the specifications stated in Appendix A. Proof of certification may be required prior to award of contract.

Note: Product lines that are offered on the bid sheet shall be the same product lines provided during the term of this agreement. There shall be no substitutions for any item unless approved by County representatives. If an item is substituted, that item shall be priced at the same price on the bid sheet or at the same discount offered for the item(s) that was bid.

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2. The successful bidder shall have sufficient local inventory of replacement filters that are regularly stocked and used as needed by the County to meet the County's needs. Vendor shall also keep the most heavily used items in stock continuously. Items that are needed immediately shall be delivered within (2) hours of order. Stock orders shall be delivered within one (1) working day of order being placed. All back orders shall be filled within three (3) working days of order.

Note: Failure to maintain adequate stock shall be grounds for terminating this contract.

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3. If the successful bidder does not have the required County stock item(s), and the County's need is immediate, the vendor shall obtain the required item(s) from another supplier. There shall be no additional cost to the County for this service.
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4. If the successful bidder does not have the required items on a regular basis and/or frequently obtains items from any other suppliers, the County may determine that the bidder does not maintain an adequate stock and may terminate this agreement. \_\_\_\_\_
5. Filters furnished under this agreement shall be full line, first quality products. They shall be equivalent in function and workmanship to the filter which was furnished as original equipment on the intended application and as recommended by the manufacturer. All items supplied shall conform in strength, quality of material and workmanship to recognized industry standards. Filters trimmed by the vendor to meet County filter size requirements must be reassembled professionally to match the quality of the original manufactured filter and not simply taped or stapled back together. \_\_\_\_\_
6. The bidder/manufacturer shall use material and design practices that are the best available in the industry for the conditions which items will be subjected to. \_\_\_\_\_
7. The manufacturer's warranty shall apply to all filters described by these specifications and their use shall in no way affect the provisions of the factory warranty. Filters shall be classified categorically with published cross-reference charts for proper identification and usage. \_\_\_\_\_
8. The provisions of the contract shall in no way prohibit the County from making a purchase for the same commodities listed herein from another supplier. \_\_\_\_\_
9. Filters may be inspected before acceptance by an authorized representative of the County of Fresno for workmanship, appearance, and conformance to all other requirements of this specification. If deficiencies are found, it shall be the responsibility of the contractor to pick up the merchandise, make necessary correction and redeliver the merchandise for re-inspection and acceptance. Payment will not be made until corrective action has been made. \_\_\_\_\_

**LOCAL VENDOR PREFERENCE AND DISABLED VETERAN BUSINESS ENTERPRISE BID**

**PREFERENCE:** The Local Vendor Preference and Disabled Veteran Business Enterprise Preference **does** apply to this Request for Quotation.

**DEFINITIONS:** The terms Bidder, Proposer, Contractor and Vendor are all used interchangeably and refer to that person, partnership, corporation, organization, agency, etc. which is offering the quotation and is identified on page one of this Request For Quotation (RFQ).

**ISSUING AGENT:** This RFQ has been issued by County of Fresno, Purchasing. Purchasing shall be the vendor's sole point of contact with regard to the RFQ, its content, and all issues concerning it.

**INTERPRETATION OF RFQ:** Vendors must make careful examination of the requirements, specifications and conditions expressed in the RFQ and fully inform themselves as to the quality and character of services required. If any person planning to submit a quotation finds

discrepancies in or omissions from the RFQ or has any doubt as to the true meaning or interpretation, correction thereof may be requested in writing from Purchasing by June 13, 2014 at 10:00A.M., cut-off.

Questions shall be delivered to County of Fresno Purchasing, 4525 E. Hamilton Avenue, 2<sup>nd</sup> Floor, Fresno, California 93702, faxed to (559) 600-7126, or E-Mail: [skirby@co.fresno.ca.us](mailto:skirby@co.fresno.ca.us). If faxing, the bidder must confirm receipt by phone, within one-half (1/2) hour of transmission.

**NOTE:** Time constraints will prevent County from responding to questions submitted after the cutoff date.

Any change in the Request for Quotation will be made by written addendum issued by the County. The County will not be responsible for any other explanations or interpretations.

**AWARD:** The County of Fresno reserves the right to make the award on the basis of the entire group or on a per line item basis. The award will be made in a manner determined to be to the best advantage of the County. The County will be the sole judge in making such determination. Award Notices are tentative: Acceptance of an offer made in response to this RFQ shall occur only upon execution of an agreement by both parties or issuance of a valid written Purchase Order by Fresno County Purchasing.

**RIGHT TO REJECT BIDS:** The County reserves the right to reject any and all bids and to waive informalities or irregularities in bids.

**AUTHORIZED CONTACT:** All communication regarding this RFQ shall be directed to an authorized representative of County Purchasing. The specific buyer managing this RFQ is identified on the cover page, along with his or her telephone number, and he or she should be the primary point of contact for discussions or information pertaining to the RFQ. Contact with any other County representative, including elected officials, for the purpose of discussing this RFQ, its content, or any other issue concerning it, is prohibited unless authorized by Purchasing. Violation of this clause, by the vendor having unauthorized contact (verbally or in writing) with such other County representatives, may constitute grounds for rejection by Purchasing of the vendor's quotation.

The above stated restriction on vendor contact with County representatives shall apply until the County has awarded a purchase order or contract to a vendor or vendors, except as follows. First, in the event that a vendor initiates a formal protest against the RFQ, such vendor may contact the appropriate individual, or individuals who are managing that protest as outlined in the County's established protest procedures. All such contact must be in accordance with the sequence set forth under the protest procedures. Second, in the event a public hearing is scheduled before the Board of Supervisors to hear testimony prior to its approval of a purchase order or contract, any vendor may address the Board.

**NUMBER OF COPIES:** Submit **one (1) original and two (2) copies** of your quotation no later than the quotation closing date and time as stated on the front of this document to County of Fresno Purchasing. Each copy to be identical to the original, include all supporting documentation (i.e. literature, brochures, reports, schedules etc.). The cover page of each quotation is to be appropriately marked "Original" or "Copy".

**FIRM QUOTATION:** All quotations shall remain firm for at least, one hundred and twenty (120) days.

**TAXES:** The quoted amount must include all applicable taxes. If taxes are not specifically identified in the quotation it will be assumed that they are included in the total quoted.

**SALES TAX:** Fresno County pays California State Sales Tax in the amount of 8.225% regardless of vendor's place of doing business.

**SPECIFICATIONS AND EQUALS:** Brand names, where used, are a means of establishing quality and style. Bidders are invited to quote their equals. Alternate offers are to be supported by literature, which fully describes items that you are bidding.

No exceptions to or deviations from this specification will be considered unless each exception or deviation is specifically stated by the bidder, in the designated places. If no exceptions or deviations are shown, the bidder will be required to furnish items exactly as specified herein. The burden of proof of compliance with this specification is the responsibility of the bidder.

**LITERATURE:** Bidders shall submit literature, which fully describes items on which they are bidding, not later than the closing date of this bid. Any and all literature submitted must be stamped with bidders name and address.

**MERCHANDISE RETURNABLE FOR FULL CREDIT:** Bidder agrees to accept for full credit any merchandise sold by him on contract or award resulting from this bid, if returned in good condition by the County.

**GUARANTEE AGAINST DEFECTS:** All items are to carry a full guarantee against defects in materials and workmanship and guarantee against breakage and other malfunctions when performing work for which they are designed.

**PACKAGING:** Each item listed in the bid gives as part of its description the minimum packaging size that the County would order. The County feels it more reasonable to order the successful bidder's standard "carton" sizes; therefore, each bidder is asked to fill in the information for each item. Normally the circumstances resort to minimum package size orders. Be sure to fill in your "standard" carton size on the quotation schedule if different from stated.

Quote separate prices on each individual item in County unit of measure (i.e., EA, DZ, PG, not your standard carton price).

**SAMPLES:** On request, samples of the products on which you are bidding shall be made available to the County. County will designate where samples are to be delivered.

Successful bidder's samples may be retained for checking against delivery, in which case allowance will be made to vendor.

**VENDOR ASSISTANCE:** Successful bidder shall furnish, at no cost to the County, a representative to assist County departments in determining their product requirements

**MINOR DEVIATIONS:** The County reserves the right to negotiate minor deviations from the prescribed terms, conditions and requirements with the selected vendor.

**QUOTATION REJECTION:** Failure to respond to all questions or not to supply the requested information could result in rejection of your quotation.

**BIDDERS' LIABILITIES:** County of Fresno will not be held liable for any cost incurred by vendors in responding to the RFQ.

**PRICE RESPONSIBILITY:** The selected vendor will be required to assume full responsibility for all services and activities offered in the quotation, whether or not they are provided directly. Further, the County of Fresno will consider the selected vendor to be the sole point of contact with regard to contractual matters, including payment of any and all charges resulting from the contract. The contractor may not subcontract or transfer the contract, or any right or obligation arising out of the contract, without first having obtained the express written consent of the County.

**PRICES:** Bidder agrees that prices quoted are a maximum for the contract period, and in the event of a price decline such lower prices shall be extended to the County of Fresno. Prices shall be quoted F.O.B. destination.

**REPORTS:** Contractor upon request will provide annual reports for all products purchased under any agreement resulting from this Request for Quotation.

Report information to include usage (type and quantity of product purchased, manufacture and manufacture part number) dates of each purchase and price charged. Reports must be delivered to County of Fresno Purchasing, 4525 E. Hamilton Avenue, Fresno, California 93702, Attention: Shannon W. Kirby not later than thirty (30) days following the date of the request. The agreement number should be referenced on all reports.

**NON-EXCLUSIVE:** This will be a non-exclusive Agreement. The County of Fresno reserves the right to re-quote any of the items depending on department usage, increase in quantities, etc.

**MULTIPLE DELIVERIES:** This Request for Quotation reflects the needs of various County departments. Delivery will be required to each individual department and/or designated shop area.

**GUARANTEED DELIVERY:**

The successful bidder shall be able to provide same day delivery service as requested to the County of Fresno sites, as required, at no additional cost. All deliveries shall be free of charge, and there shall be no minimum order required. All deliveries under the agreement shall be accompanied by a packing slip.

Upon request by the County, vendor shall bundle, package and label filters for delivery according to the buildings where the filters will be used. This may include requests to package filters in boxes labelled with the building number, air handler # and the correct amount of filters for that air handler. This allows the technician to take boxes marked for that area and do this job and have no extras, waste or partial boxes lying around after the change. This will be done at no additional cost to the County. The County understands that the Contractor must be given additional time to package filters in this manner.

Bidder will be considered in award of bid only if they can guarantee delivery. Enter guaranteed delivery on this line (i.e. number of days from receipt of order to delivery).

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By: \_\_\_\_\_

(Authorized Signature)

**CONFIDENTIALITY:** Bidders shall not disclose information about the County's business or business practices and safeguard confidential data which vendor staff may have access to in the course of system implementation.

**NEWS RELEASE:** Vendors shall not issue any news releases or otherwise release information to any third party about this RFQ or the vendor's quotation without prior written approval from the County of Fresno.

**BACKGROUND REVIEW:** The County reserves the right to conduct a background inquiry of each proposer/bidder which may include collection of appropriate criminal history information, contractual and business associations and practices, employment histories and reputation in the business community. By submitting a quotation/bid to the County, the vendor consents to such an inquiry and agrees to make available to the County such books and records the County deems necessary to conduct the inquiry.

**EXCEPTIONS:** Identify with explanation, any terms, conditions, specifications or stipulations of the RFQ with which you CAN NOT or WILL NOT comply.

**ADDENDA:** In the event that it becomes necessary to revise any part of this RFQ, addenda will be provided to all agencies and organizations that receive the basic RFQ.

**SUBCONTRACTORS:** If a subcontractor is proposed, complete identification of the subcontractor and his tasks shall be provided. The primary contractor is not relieved of any responsibility by virtue of using a subcontractor.

**CONFLICT OF INTEREST:** The County shall not contract with, and shall reject any bid or quotation submitted by the persons or entities specified below, unless the Board of Supervisors finds that special circumstances exist which justify the approval of such contract:

1. Employees of the County or public agencies for which the Board of Supervisors is the governing body.
2. Profit-making firms or businesses in which employees described in Subsection (1) serve as officers, principals, partners or major shareholders.
3. Persons who, within the immediately preceding twelve (12) months, came within the provisions of Subsection (1), and who were employees in positions of substantial responsibility in the area of service to be performed by the contract, or participated in any way in developing the contract or its service specifications.
4. Profit-making firms or businesses in which the former employees described in Subsection (3) serve as officers, principals, partners or major shareholders.
5. No County employee whose position in the County enables him to influence the selection of a contractor for this RFQ, or any competing RFQ, and no spouse or economic dependent of such employee, shall be employees in any capacity by a bidder, or have any other direct or indirect financial interest in the selection of a contractor.

**INVOICING:** All invoices are to be delivered in duplicate to County of Fresno Facility Services, 4590 E. Kings Canyon Road, Fresno, CA 93702. Reference shall be made to the purchase order/contract number and equipment number if applicable on the invoice.

**PAYMENT:** County will make partial payments for all purchases made under the contract/purchase order and accumulated during the month.



**CONTRACT TERM:** It is County's intent to contract with the successful bidder for a term of three (3) years.

**RENEWAL:** Agreement may be renewed for a potential of two (2) one (1) year periods, based on the mutual written consent of all parties.

**QUANTITIES:** Quantities shown in the bid schedule are approximate and the County guarantees no minimum amount. The County reserves the right to increase or decrease quantities.

**ORDERING:** Orders will be placed as required by County of Fresno Facility Services.

**TERMINATION:** The County reserves the right to terminate any resulting contract upon written notice.

**INDEPENDENT CONTRACTOR:** In performance of the work, duties, and obligations assumed by Contractor under any ensuing Agreement, it is mutually understood and agreed that CONTRACTOR, including any and all of Contractor's officers, agents, and employees will at all times be acting and performing as an independent contractor, and shall act in an independent capacity and not as an officer, agent, servant, employee, joint venturer, partner, or associate of the COUNTY. Furthermore, County shall have no right to control or supervise or direct the manner or method by which Contractor shall perform its work and function. However, County shall retain the right to administer this Agreement so as to verify that Contractor is performing its obligations in accordance with the terms and conditions thereof. Contractor and County shall comply with all applicable provisions of law and the rules and regulations, if any, of governmental authorities having jurisdiction over matters the subject thereof.

Because of its status as an independent contractor, Contractor shall have absolutely no right to employment rights and benefits available to County employees. Contractor shall be solely liable and responsible for providing to, or on behalf of, its employees all legally-required employee benefits. In addition, Contractor shall be solely responsible and save County harmless from all matters relating to payment of Contractor's employees, including compliance with Social Security, withholding, and all other regulations governing such matters. It is acknowledged that during the term of the Agreement, Contractor may be providing services to others unrelated to the County or to the Agreement.

**SELF-DEALING TRANSACTION DISCLOSURE:** Contractor agrees that when operating as a corporation (a for-profit or non-profit corporation), or if during the term of the agreement the Contractor changes its status to operate as a corporation, members of the Contractor's Board of Directors shall disclose any self-dealing transactions that they are a party to while Contractor is providing goods or performing services under the agreement with the County. A self-dealing transaction shall mean a transaction to which the Contractor is a party and in which one or more of its directors has a material financial interest. Members of the Board of Directors shall disclose any self-dealing transactions that they are a party to by completing and signing a Fresno County Self-Dealing Transaction Disclosure Form and submitting it to the County prior to commencing with the self-dealing transaction or immediately thereafter.

**HOLD HARMLESS CLAUSE:** Contractor agrees to indemnify, save, hold harmless and at County's request, defend the County, its officers, agents and employees, from any and all costs and expenses, damages, liabilities, claims and losses occurring or resulting to County in connection with the performance, or failure to perform, by Contractor, its officers, agents or employees under this Agreement and from any and all costs and expenses, damages, liabilities,

claims and losses occurring or resulting to any person, firm or corporation who may be injured or damaged by the performance, or failure to perform, of Contractor, its officers, agents or employees under this Agreement.

**MATERIALS TO BE NEW:** All materials shall be new and of merchantable grade, free from defect. No bid will be considered unless it is accompanied by a complete list of manufacturer's catalog numbers of the items, which the bidder proposes to furnish, together with full descriptive literature on all items so enumerated. If item proposed differs from these specifications, bidder shall present specific explanation of functioning and structural characteristics for those details which differ from the specifications listed herein.

**DAMAGE TO EXISTING WORK:** Damage to existing construction, equipment, planting, etc., by the contractor in the performance of his work shall be replaced or repaired and restored to original condition by the contractor.

**SAFEGUARDS:** The contractor shall provide safeguards, in conformity with all local codes and ordinances as may be required.

**INSURANCE:**

Without limiting the COUNTY's right to obtain indemnification from CONTRACTOR or any third parties, CONTRACTOR, at its sole expense, shall maintain in full force and effect, the following insurance policies or a program of self-insurance, including but not limited to, an insurance pooling arrangement or Joint Powers Agreement (JPA) throughout the term of the Agreement:

A. Commercial General Liability

Commercial General Liability Insurance with limits of not less than One Million Dollars (\$1,000,000) per occurrence and an annual aggregate of Two Million Dollars (\$2,000,000). This policy shall be issued on a per occurrence basis. COUNTY may require specific coverages including completed operations, products liability, contractual liability, Explosion-Collapse-Underground, fire legal liability or any other liability insurance deemed necessary because of the nature of this contract.

B. Automobile Liability

Comprehensive Automobile Liability Insurance with limits for bodily injury of not less than Two Hundred Fifty Thousand Dollars (\$250,000.00) per person, Five Hundred Thousand Dollars (\$500,000.00) per accident and for property damages of not less than Fifty Thousand Dollars (\$50,000.00), or such coverage with a combined single limit of Five Hundred Thousand Dollars (\$500,000.00). Coverage should include owned and non-owned vehicles used in connection with this Agreement.

C. Professional Liability

If CONTRACTOR employs licensed professional staff, (e.g., Ph.D., R.N., L.C.S.W., M.F.C.C.) in providing services, Professional Liability Insurance with limits of not less than One Million Dollars (\$1,000,000.00) per occurrence, Three Million Dollars (\$3,000,000.00) annual aggregate.

D. Worker's Compensation

A policy of Worker's Compensation insurance as may be required by the California Labor Code.

CONTRACTOR shall obtain endorsements to the Commercial General Liability insurance naming the County of Fresno, its officers, agents, and employees, individually and collectively, as additional insured, but only insofar as the operations under this Agreement are concerned. Such coverage for additional insured shall apply as primary insurance and any other insurance, or self-insurance, maintained by COUNTY, its officers, agents and employees shall be excess only and not contributing with insurance provided under CONTRACTOR's policies herein. This insurance shall not be cancelled or changed without a minimum of thirty (30) days advance written notice given to COUNTY.

Within thirty (30) days from the date CONTRACTOR executes this Agreement, CONTRACTOR shall provide certificates of insurance and endorsement as stated above for all of the foregoing policies, as required herein, to the County of Fresno Facility Services, Attn: Mike Bartosch, 4590 E. Kings Canyon Road, Fresno, CA 93702, stating that such insurance coverage have been obtained and are in full force; that the County of Fresno, its officers, agents and employees will not be responsible for any premiums on the policies; that such Commercial General Liability insurance names the County of Fresno, its officers, agents and employees, individually and collectively, as additional insured, but only insofar as the operations under this Agreement are concerned; that such coverage for additional insured shall apply as primary insurance and any other insurance, or self-insurance, maintained by COUNTY, its officers, agents and employees, shall be excess only and not contributing with insurance provided under CONTRACTOR's policies herein; and that this insurance shall not be cancelled or changed without a minimum of thirty (30) days advance, written notice given to COUNTY.

In the event CONTRACTOR fails to keep in effect at all times insurance coverage as herein provided, the COUNTY may, in addition to other remedies it may have, suspend or terminate this Agreement upon the occurrence of such event.

All policies shall be with admitted insurers licensed to do business in the State of California. Insurance purchased shall be purchased from companies possessing a current A.M. Best, Inc. rating of A FSC VII or better.

**BIDDER TO COMPLETE:**

Name of Insurance Carrier: \_\_\_\_\_

Public Liability: \_\_\_\_\_ Expires: \_\_\_\_\_

Automotive Insurance: \_\_\_\_\_ Expires: \_\_\_\_\_

Worker's Compensation: \_\_\_\_\_ Expires: \_\_\_\_\_

Proof of maintenance of adequate insurance will be required before award is made to vendor.

**GUARANTEE:** The bidder shall state his written guarantee here:

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**GUARANTEED PICK UP AND/OR DELIVERY:** Bidder will be considered in award of bid only if they can guarantee. Enter guarantee on this line (i.e. number of days from receipt of order to delivery):

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By: \_\_\_\_\_  
(Authorized Signature)**WARRANTY AND SERVICE LOCATION:**

State the warranty and/or guarantee provisions applicable to this equipment or attach warranty form with your bid.

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State specific location, where service and/or maintenance can be obtained. Failure to furnish this information will be cause for rejection of bid.

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**ADDITIONAL ITEMS:**

The County may require additional items from those in bid schedule.

Price list for additional items:

A      percent discount from manufacturer's enclosed price list will be allowed on purchases of all additional items.

State name of price list, indicate applicable price column and give effective date of price list here:

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Prices on additional items will be based on successful bidder's firm discount prices from manufacturer's enclosed published price list.

Prices on additional items will be based on successful bidder's firm discount prices from manufacturer's current published price list. Successful bidder will be required to file any new price list that may become effective during the life of the contract with the County of Fresno Purchasing Manager within thirty (30) days of its becoming effective.

State Purchase Order mailing address:

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**MINIMUM ORDER:** Bidder to state minimum order quantities and charges for less than minimum order quantity (if not stated it will be assumed there are none).

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**SUBCONTRACTORS:**

List all subcontractors that would perform work in excess of one/half of one percent of the total amount of your bid, and state general type of work such subcontractor would be performing:

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**PERFORMANCE BOND:** The successful bidders may be required to furnish a faithful performance bond.

**BONDING COMPANY:** The company issuing bonds shall be a corporate surety admitted by the California Insurance Commissioner to do business in the State of California with an A.M Best rating of B++ VIII or better.

**DISPUTE RESOLUTION:** The ensuing contract shall be governed by the laws of the state of California .Any claim which cannot be amicably settled without court action will be litigated in the U.S. District Court for the Eastern District of California in Fresno, CA or in a state court for Fresno County.

**DEFAULT:** In case of default by the selected bidder, the County may procure the services from another source and may recover the loss occasioned thereby from any unpaid balance due the selected bidder, or by any other legal means available to the County.

**ASSIGNMENTS:** The ensuing proposed contract will provide that the vendor may not assign any payment or portions of payments without prior written consent of the County of Fresno.

**ASSURANCES:** Any contract awarded under this RFQ must be carried out in full compliance with The Civil Rights Act of 1964, The Americans With Disabilities Act of 1990, their subsequent amendments, and any and all other laws protecting the rights of individuals and agencies. The County of Fresno has a zero tolerance for discrimination, implied or expressed, and wants to ensure that policy continues under this RFQ. The contractor must also guarantee that services, or workmanship, provided will be performed in compliance with all applicable local, state, or federal laws and regulations pertinent to the types of services, or project, of the nature required under this RFQ. In addition, the contractor may be required to provide evidence substantiating that their employees have the necessary skills and training to perform the required services or work.

**AUDITS AND RETENTION:** The Contractor shall maintain in good and legible condition all books, documents, papers, data files and other records related to its performance under this contract. Such records shall be complete and available to Fresno County, the State of California, the federal government or their duly authorized representatives for the purpose of audit, examination, or copying during the term of the contract and for a period of at least three years following the County's final payment under the contract or until conclusion of any pending matter (e.g., litigation or audit), whichever is later. Such records must be retained in the manner described above until all pending matters are closed.

**BIDDER TO COMPLETE THE FOLLOWING:****PARTICIPATION**

The County of Fresno is a member of the Central Valley Purchasing Group. This group consists of Fresno, Kern, Kings, and Tulare Counties and all governmental, tax supported agencies within these counties.

Whenever possible, these and other tax supported agencies co-op (piggyback) on contracts put in place by one of the other agencies.

Any agency choosing to avail itself of this opportunity, will make purchases in their own name, make payment directly to the contractor, be liable to the contractor and vice versa, per the terms of the original contract, all the while holding the County of Fresno harmless. If awarded this contract, please indicate whether you would extend the same terms and conditions to all tax supported agencies within this group as you are proposing to extend to Fresno County.

☐ Yes, we will extend contract terms and conditions to all qualified agencies within the Central Valley Purchasing Group and other tax supported agencies.

☐ No, we will not extend contract terms to any agency other than the County of Fresno.

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(Authorized Signature)

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Title

**COUNTY OF FRESNO  
LOCAL VENDOR BID PREFERENCE  
AND  
DISABLED VETERAN BUSINESS ENTERPRISE BID  
PREFERENCE**

The Local Vendor and Disabled Veteran Business Enterprise Preferences apply to this RFQ.

Whenever the Purchasing Agent purchases supplies, materials and/or equipment for the County through the use of competitive bids, the Purchasing Agent, in evaluating the price or bid for such supplies, materials and/or equipment shall determine if each bidder is a Fresno County Local Vendor (FCLV) and/or a Disabled Veteran Business Enterprise (DVBE). Bidders that are either an FCLV or a California State Certified DVBE may be granted a preference when determining the award of a bid. FCLV and DVBE, for the purposes of this section, are defined below.

**A. Fresno County Local Vendor (FCLV)**

1. The vendor has its headquarters, distribution point or locally-owned franchise located in or having a street address within the County for at least six (6) months immediately prior to the issuance of the request for competitive bids by the Purchasing Agent; and
2. The vendor holds any required business license by a jurisdiction located in Fresno County; and
3. The vendor employs at least one (1) full-time or two (2) part-time employees whose primary residence is located within Fresno County, or if the business has no employees, shall be at least fifty percent (50%) owned by one or more persons whose primary residence(s) is located within Fresno County.

**B. Disabled Veteran Business Enterprise (DVBE)**

A vendor must be certified by the State of California as a Disabled Veteran Business Enterprise (DVBE) as of the close of the competitive bid process in which they are participating. State certification as a DVBE is issued by the California Department of General Services.

**Other Conditions**

1. Any vendor claiming to be a FCLV as defined above, or a DVBE shall so certify in writing to the Purchasing Agent. The Purchasing Agent shall not be required to verify the accuracy of any such certifications, and shall have sole discretion to determine if a vendor meets the definition of a FCLV.
2. Any person or business falsely claiming to be a FCLV or DVBE under this section shall be ineligible to transact any business with the County for a period of not less than three (3) months and not more twenty-four (24) months as determined at the sole discretion of the Purchasing Agent. The Purchasing Agent shall also have the right to terminate all or any part of any contract entered into with such person or business.
3. In the event that the Purchasing Agent rejects a vendor's claim that they are a FCLV and/or a DVBE, and as such declares them to be ineligible, such vendor shall be entitled to a public



hearing before the Board of Supervisors and a five (5) day notice of the time and place thereof.

4. This section shall not apply to contracts required by state or federal statutes or regulations to be awarded to the lowest responsible bidder or otherwise exempted from local preference.

#### Preferences

FCLVs and DVBEs that submit a bid within five percent (5%) of the lowest responsive and responsible bid will, under certain specified circumstances, qualify to submit a new bid within two County business days of County's notification. Such new bids must be in an amount less than or equal to the lowest responsive and responsible bid previously determined by the Purchasing Agent. If the Purchasing Agent receives new bids from qualifying FCLVs and/or DVBEs, he shall award the contract to the FCLV or DVBE that submits the lowest responsive and responsible bid. If no new bids are received, the contract shall be awarded to the original low bidder as announced by the Purchasing Agent. The lowest responsive and responsible bid shall be solely determined by the Purchasing Agent.

The Purchasing Agent will consider the following four categories of bidder relative to the Fresno County Local Vendor Preference and the Disabled Veteran Business Enterprise Preference.

#### Vendor Preference Categories

- 1) FCLV – Fresno County Local Vendor as defined above.
- 2) DVBE – Disabled Veteran Business Enterprise as defined above; a DVBE is not also a FCLV unless specifically designated as such.
- 3) FCLV & DVBE – A vendor that is both a Fresno County Local Vendor and Disabled Veteran Business Enterprise as defined above.
- 4) VNP – Vendor No Preference; A vendor that is neither a Fresno County Local Vendor nor a Disabled Veteran Business Enterprise.

The following table identifies the various combinations of vendor preference categories that could be received in response to an RFQ. It also indicates when a vendor qualifies for a re-bid under either the FCLV or DVBE Preference.

The first column of the table identifies the Vendor Preference Category of the bidder that the Purchasing Agent has determined to be the lowest cost, responsive and responsible bidder. Each vendor preference category is shown in the columns to the right. The table indicates when a vendor category qualifies for a re-bid relative to the low bid category in the first column (read left to right).

<b>Low Bid Submitted by Vendor Preference Category</b>	<b>FCLV &amp; DVBE</b>	<b>FCLV</b>	<b>DVBE (Not a FCLV)</b>	<b>VNP</b>
<b>FCLV &amp; DVBE</b> Award to Low Bid No Re-bid Opportunity	No Re-bid Opportunity	No Re-bid Opportunity	No Re-bid Opportunity	No Re-bid Opportunity
<b>VNP</b> Award Subject to Preference Re-bid	May Re-bid when within 5% of low bid	May Re-bid when within 5% of low bid	May Re-bid when within 5% of low bid	No Re-bid Opportunity
<b>FCLV</b> Award Subject to Preference Re-bid	May Re-bid when within 5% of low bid	No Re-bid Opportunity	No Re-bid Opportunity	No Re-bid Opportunity
<b>DVBE</b> (Not a FCLV) Award Subject to Preference Re-bid	May Re-bid when within 5% of low bid	May Re-bid when within 5% of low bid	No Re-bid Opportunity	No Re-bid Opportunity

### Applying the Preferences

In determining the award of a Request for Quotation (RFQ), the Purchasing Agent will first identify the lowest cost responsive and responsible bidder, and award will be made to that vendor when such vendor is both a FCLV and a DVBE.

If the lowest such bidder is not an FCLV, it will be determined if the Local Vendor Preference and/or the DVBE Preference are applicable to other bidders. The preferences will then apply to bids submitted by FCLVs and DVBEs that are within 5% of the designated low bid. The vendors submitting bids that are within the 5% will be granted an opportunity to submit a new bid. It must be stressed that in the event of a tie between a FCLV and a DVBE that is not a FCLV, the FCLV shall take precedence in award of the contract. This condition is necessary to remain consistent with Fresno County Charter Section 12 (h), which specifically calls for a preference to local vendors.

When the lowest responsive and responsible bidder is a FCLV, other bidders who are both FCLVs and DVBEs will have the opportunity to re-bid.

When the lowest responsive and responsible bid is from a non-local DVBE, all FCLVs will be offered a re-bid opportunity.

**PREFERENCE CERTIFICATION  
LOCAL VENDOR  
AND/OR  
DISABLED VETERANS BUSINESS ENTERPRISE**

The Fresno County Local Vendor Preference (FCLV) and the Disabled Veteran Business Enterprise Preference (DVBE) are applicable to this Request for Quotation as previously explained.

Qualified Vendors that desire consideration as a FCLV and/or a DVBE under this RFQ must complete the "Statement of Local Vendor Certification" and/or the "Statement of DVBE Certification", each is included below, and submit it/them as a part of their quotation. Late submittals of these certification forms will not be considered. Submission of either or both certifications will qualify the vendor for treatment as a local vendor or a DVBE for purposes of this RFQ only. The certification(s) made under this RFQ do not qualify the vendor for a preference under any other RFQ.

**NOTIFICATION OF RE-BID**

If a vendor's bid qualifies under the Fresno County Local Vendor Preference or the DVBE Preference, the vendor will be notified of his/her opportunity to re-bid. If so notified, the Vendor must submit his/her re-bid within two County business days of notification.

Notification will be issued by e-mail or Fax, whichever is preferred by the vendor. Notification to Vendor shall be considered complete upon County's transmission of e-mail or Fax. It will be the vendor's responsibility to check his/her e-mail or Fax messages for notification. The vendor's delay in retrieval of his/her notification will not alter the two (2) County business day period allowed for re-bid submission.

**FCLV or DVBE TO COMPLETE:**

Indicate ONE method for notification of re-bid opportunity by providing the appropriate e-mail address or Fax number. Submit this document as a part of your quotation.

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E-Mail Address or Fax Number (Identify contact person)

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## STATEMENT OF LOCAL VENDOR CERTIFICATION COUNTY OF FRESNO

Qualified local vendors desiring consideration under the Fresno County Local Vendor Preference must complete the following and submit with their quotation (print or type).

I \_\_\_\_\_, \_\_\_\_\_  
(individual submitting bid) (title)  
of/for \_\_\_\_\_  
(Company Name) Certify that \_\_\_\_\_  
(Company Name)

Is a Fresno County local Vendor as defined within this RFQ and therefore qualifies for the Local Vendor Preference.

Signature

Title

Date

(Print Name)

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## STATEMENT OF DISABLED VETERAN BUSINESS ENTERPRISE CERTIFICATION

Qualified vendors desiring consideration under the Fresno County DVBE Preference must complete the following and submit with their quotation (print or type).

I \_\_\_\_\_, \_\_\_\_\_  
(individual submitting bid) (title)  
of/for \_\_\_\_\_  
(\*Company Name) Certify that \_\_\_\_\_  
(Company Name)

Is a Disabled Veteran Business Enterprise certified by the State of California and therefore qualifies for the DVBE Preference.

State of California DVBE Certification Number: \_\_\_\_\_

Signature

Title

Date

(Print Name)

\*Company name on file with the State of California DVBE program.

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**VENDOR MUST COMPLETE AND RETURN WITH REQUEST FOR QUOTATION.**

Firm: \_\_\_\_\_

**REFERENCE LIST**

Provide a list of at least five (5) customers for whom you have recently provided similar products/services. Be sure to include all requested information.

Reference Name: \_\_\_\_\_ Contact: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Phone No.: ( \_\_\_\_\_ ) \_\_\_\_\_ Date: \_\_\_\_\_  
Service Provided: \_\_\_\_\_

Reference Name: \_\_\_\_\_ Contact: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Phone No.: ( \_\_\_\_\_ ) \_\_\_\_\_ Date: \_\_\_\_\_  
Service Provided: \_\_\_\_\_

Reference Name: \_\_\_\_\_ Contact: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Phone No.: ( \_\_\_\_\_ ) \_\_\_\_\_ Date: \_\_\_\_\_  
Service Provided: \_\_\_\_\_

Reference Name: \_\_\_\_\_ Contact: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Phone No.: ( \_\_\_\_\_ ) \_\_\_\_\_ Date: \_\_\_\_\_  
Service Provided: \_\_\_\_\_

Reference Name: \_\_\_\_\_ Contact: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Phone No.: ( \_\_\_\_\_ ) \_\_\_\_\_ Date: \_\_\_\_\_  
Service Provided: \_\_\_\_\_

***Failure to provide a list of at least five (5) customers may be cause for rejection of this RFQ.***

## QUOTATION SCHEDULE

The bid items listed are for evaluation purposes only. The quantities and items specified are estimates only of the County's requirements. Vendor agrees to furnish more or less than the estimates at the unit prices quoted in accordance with availability of funds and actual needs as they occur throughout the contract period. Price list(s) shall be included with the bid.

### PUROLATOR\*

DESCRIPTION	SIZE	PART NUMBER (some of these part numbers may have changed)	QTY	UNIT	Unit PRICE	Extended Price	Bidder Part #
Hi-E® 40 CB Pleated Filter	20" x 25" x 2"	HE40CB-0502	36	EA	\$	\$	
Hi-E® 40 CB Pleated Filter	16 x 25 x 2	HE40CB-6502	48	EA	\$	\$	
Purolator P312	20 X 25 X 2	P312-20252	48	EA	\$	\$	
Purolator P312	16 x 25 x 2	P312-16252	12	EA	\$	\$	
Purolator P312	15 X 25 X 1	P312-15251	24	EA	\$	\$	
Panel Filter, Facet-Aire 2	24 X 24 X 2	2F24242	24	EA	\$	\$	
Panel Filter, Facet-Aire 2	16 X 20 X 2	2F16202	24	EA	\$	\$	
Hi-E 40™ Pleated Filters	10 X 22 X 1	HE40-10221	24	EA	\$	\$	
Hi-E 40™ Pleated Filters	16 X 16 X 1	HE40-16161	48	EA	\$	\$	
Hi-E 40™ Pleated Filters	14 x 25 x 1	HIE40-4501	24	EA	\$	\$	
Hi-E 40™ Pleated Filters	14 X 30 X 1	HE40-14301	24	EA	\$	\$	
Hi-E 40™ Pleated Filters	15 X 30 X 1	HE40-15301	12	EA	\$	\$	
Hi-E 40™ Pleated Filters	16 X 30 X 1	HE40-16301	12	EA	\$	\$	
	20 X 20 X 1		12		\$	\$	
Hi-E 40™ Pleated Filters	20 X 30 X 1	HE40-0301	72	EA	\$	\$	
Hi-E 40™ Pleated Filters	12 X 24 X 2	HE40-2402	24	EA	\$	\$	
	14 X 20 X 2		8		\$	\$	
Hi-E 40™ Pleated Filters	14 X 25 X 2	HE40-4502	4	EA	\$	\$	
Hi-E 40™ Pleated Filters	15 X 20 X 2	HE40-5002	80	EA	\$	\$	
Hi-E 40™ Pleated Filters	16 X 16 X 2	HE40-6602D	24	EA	\$	\$	
Hi-E 40™ Pleated Filters	16 X 20 X 2	HE40-6002	550	EA	\$	\$	
Hi-E 40™ Pleated Filters	16 X 24 X 2	HE40-6402	24	EA	\$	\$	

<i>DESCRIPTION</i>	<i>SIZE</i>	<i>PART NUMBER (some of these part numbers may have changed)</i>	<i>QTY</i>	<i>UNIT</i>	<i>Unit PRICE</i>	<i>Extended Price</i>	<i>Bidder Part #</i>
Hi-E 40™ Pleated Filters	16 X 25 X 2	HE40-6502	356	EA	\$	\$	
Hi-E 40™ Pleated Filters	20 X 30 X 2	HE40-0302	84	EA	\$	\$	
Hi-E 40™ Pleated Filters	20 X 20 X 2	HE40-0002	426	EA	\$	\$	
Hi-E 40™ Pleated Filters	20 X 30 X 2	HE40-0302	28	EA	\$	\$	
Hi-E 40™ Pleated Filters	20 X 24 X 2	HE40-0402	72	EA	\$	\$	
Hi-E 40™ Pleated Filters	20 X 25 X 2	HE40-0502	188	EA	\$	\$	
Hi-E 40™ Pleated Filters	22 X 25 X 2		8		\$	\$	
Hi-E 40™ Pleated Filters	24 X 24 X 2	HE40-4402	156	EA	\$	\$	
Hi-E 40™ Pleated Filters	16 X 25 X 4	HE40-6504	18	EA	\$	\$	
Hi-E 40™ Pleated Filters	18 X 20 X 4		8		\$	\$	
Hi-E 40™ Pleated Filters	20 X 25 X 4	HE40-0504	40	EA	\$	\$	
Hi-E 40™ Pleated Filters	24 X 24 X 4	HE40-4404	12	EA	\$	\$	
Cardboard Frame	16 X 30 X 1		4	EA	\$	\$	
Cardboard Frame	25 X 25 X 1		12	EA	\$	\$	
Cardboard Frame	12 X 20 X 1		8	EA	\$	\$	
Mono Pleat Filters	8 x 25 x 1	MP-8251	14	EA	\$	\$	
Mono Pleat Filters	8 X 16 X 1	MP-8161	60	EA	\$	\$	
Mono Pleat Filters	8 X 30 X 1	MP-8301	84	EA	\$	\$	
Mono Pleat Filters	8 X 36 X 1	MP-8361	43	EA	\$	\$	
Mono Pleat Filters	10 X 20 X 1	MP-10201	24	EA	\$	\$	
Mono Pleat Filters	12 X 20 X 1	MP-12201	24	EA	\$	\$	
Mono Pleat Filters	12 X 24 X 1	MP-12241	12	EA	\$	\$	
Mono Pleat Filters	14 X 18 X 1	MP-14181	50	EA	\$	\$	
Mono Pleat Filters	14 X 20 X 1	MP-14201	24	EA	\$	\$	
Mono Pleat Filters	14 X 25 X 1	MP-14251	60	EA	\$	\$	
Mono Pleat Filters	14 X 26 X 1	MP-14261	50	EA	\$	\$	
Mono Pleat Filters	15 X 16 X 1	MP-15161	48	EA	\$	\$	
Mono Pleat Filters	15 X 18 X 1	MP-15181	50	EA	\$	\$	

<i>DESCRIPTION</i>	<i>SIZE</i>	<i>PART NUMBER (some of these part numbers may have changed)</i>	<i>QTY</i>	<i>UNIT</i>	<i>Unit PRICE</i>	<i>Extended Price</i>	<i>Bidder Part #</i>
Mono Pleat Filters	15 X 48 X 1	MP-15481	50	EA	\$	\$	
Mono Pleat Filters	16 X 20 X 1	MP-16201	12	EA	\$	\$	
Mono Pleat Filters	16 X 25 X 1	MP-16251	48	EA	\$	\$	
Mono Pleat Filters	18 X 35 X 1	MP-18351	12	EA	\$	\$	
Mono Pleat Filters	20 X 20 X 1	MP-20201	48	EA	\$	\$	
Mono Pleat Filters	20 X 25 X 1	MP-20251	62	EA	\$	\$	
Mono Pleat Filters	25 X 25 X 1	MP-25251	12	EA	\$	\$	
Serva-Pak 50S	24 X 24 X 22	SP50S06-4422	27	EA	\$	\$	
Serva-Pak 50S	12 X 24 X 22	SP50S03-2422	7	EA	\$	\$	
Mark 7 Self-Support Pleated Filters	12 X 24 X 2	MK7-2402	100	EA	\$	\$	
Mark 7 Self-Support Pleated Filters	14 X 20 X 2	MK7-4002	12	EA	\$	\$	
Mark 7 Self-Support Pleated Filters	14 X 25 X 2	MK7-4502	72	EA	\$	\$	
Mark 7 Self-Support Pleated Filters	15 X 20 X 2	MK7-5002	60	EA	\$	\$	
Mark 7 Self-Support Pleated Filters	16 X 20 X 2	MK7-6002	748	EA	\$	\$	
Mark 7 Self-Support Pleated Filters	16 X 24 X 2	MK7-6402	96	EA	\$	\$	
Mark 7 Self-Support Pleated Filters	16 X 25 X 2	MK7-6502	820	EA	\$	\$	
Mark 7 Self-Support Pleated Filters	20 X 20 X 2	MK7-0002	320	EA	\$	\$	
Mark 7 Self-Support Pleated Filters	20 X 24 X 2	MK7-0402	48	EA	\$	\$	
Mark 7 Self-Support Pleated Filters	20 X 25 X 2	MK7-0502	420	EA	\$	\$	
Mark 7 Self-Support Pleated Filters	24 X 24 X 2	MK7-4402	504	EA	\$	\$	
Mark 7 Self-Support Pleated Filters	25 X 25 X 2	MK7-5502	24	EA	\$	\$	



**GRAINGER**

<i>DESCRIPTION</i>	<i>SIZE</i>	<i>PART NUMBER (some of these part numbers may have changed)</i>	<i>QTY</i>	<i>UNIT</i>	<i>Unit PRICE</i>	<i>Extended Price</i>	<i>Bidder Part #</i>
Ring Panel Filter	10" x 10"		20	EA	\$	\$	
Ring Panel Filter	10" x 20"		20	EA	\$	\$	
Ring Panel Filter	12" x 12"		20	EA	\$	\$	
Ring Panel Filter	12" x 20"		20	EA	\$	\$	
Ring Panel Filter	12" x 24"		20	EA	\$	\$	
Ring Panel Filter	14" x 16"		20	EA	\$	\$	
Ring Panel Filter	14" x 20"		20	EA	\$	\$	
Ring Panel Filter	14" x 24"		20	EA	\$	\$	
Ring Panel Filter	14" x 25"		20	EA	\$	\$	
Ring Panel Filter	15" x 20"		20	EA	\$	\$	
Ring Panel Filter	16" x 16"		20	EA	\$	\$	
Ring Panel Filter	16" x 18"		20	EA	\$	\$	
Ring Panel Filter	16" x 20"		20	EA	\$	\$	
Ring Panel Filter	16" x 24"		20	EA	\$	\$	
Ring Panel Filter	16" x 25"		20	EA	\$	\$	
Ring Panel Filter	18" x 20"		20	EA	\$	\$	
Ring Panel Filter	18" x 24"		20	EA	\$	\$	
Ring Panel Filter	18" x 25"		20	EA	\$	\$	
Ring Panel Filter	18" x 25"		20	EA	\$	\$	
Ring Panel Filter	20" x 20"		20	EA	\$	\$	
Ring Panel Filter	20" x 22"		20	EA	\$	\$	
Ring Panel Filter	20" x 24"		20	EA	\$	\$	
Ring Panel Filter	20" x 25"		20	EA	\$	\$	
Ring Panel Filter	22" x 22"		20	EA	\$	\$	
Ring Panel Filter	22" x 25"		20	EA	\$	\$	
Ring Panel Filter	24" x 24"		20	EA	\$	\$	
Ring Panel Filter	25" x 25"		20	EA	\$	\$	

**Additional Items**

The items shown above are a sampling of what is required by the County. Since various types of equipment are used by the County, other items may be required from time to time. Bidder must therefore make all HVAC filters in a manufacturer's catalog available, and the allowed discount(s) for items not indicated above. Prices on additional items will be based on successful bidder's firm discount prices from manufacturer's current published price list. Successful bidder will be required to file any new price list that may become effective during the life of the contract with the County of Fresno Purchasing Manager within thirty (30) days of its becoming effective.

**Note: All discount(s) allowed on bid items shall be applied to all County purchases of like or similar items covered by that price list(s).**

## CHECK LIST

This Checklist is provided to assist the vendors in the preparation of their bid response. Included in this list, are important requirements and is the responsibility of the bidder to submit with the bid package in order to make the bid compliant. Because this checklist is just a guideline, the bidder must read and comply with the bid in its entirety.

*Check off each of the following:*

1. \_\_\_\_\_ Front page of the Request for Quotation (RFQ) has been signed (original signature) and completed.
2. \_\_\_\_\_ **One (1) original** and **two (2) copies** of the RFQ have been provided.
3. \_\_\_\_\_ Addenda, if any, have been completed, signed and included in the bid package.
4. \_\_\_\_\_ The completed *Reference List* as provided with this RFQ.
5. \_\_\_\_\_ The *Quotation Schedule* as provided with this RFQ has been completed, price reviewed for accuracy and any corrections initialed in ink.
6. \_\_\_\_\_ Indicate all of bidder exceptions to the County's requirements, conditions and specifications as stated within this RFQ.
7. \_\_\_\_\_ The *Participation* page as provided within this RFQ has been signed and included
8. \_\_\_\_\_ The *Local Vendor Bid Preference and Disabled Veteran Business Enterprise Bid Preference* section (if applicable) has been completed signed and included.
9. \_\_\_\_\_ *Bidder to Complete* page as provided with this RFQ.
10. \_\_\_\_\_ Specification, descriptions etc. for items offered under bidder(s) quotation.
11. \_\_\_\_\_ Lastly, on the **LOWER LEFT HAND CORNER** of the sealed envelope, box, etc. transmitting your bid include the following information:

County of Fresno RFQ No. <b>578-5277</b>
Closing Date: <b>June 26, 2014</b>
Closing Time: <b>2:00 P.M.</b>
Commodity or Service: <b>HVAC Air Filters</b>

**This Checklist does not need to be returned with your bid.**

## APPENDIX A

### Filter Specifications

## Hi-E™ 40

### Standard Capacity Medium Efficiency Pleated Air Filter

The Purolator® **Hi-E™ 40** is a medium efficiency, extended surface, pleated air filter. The media area and initial air flow resistance have been carefully balanced to withstand flow capacity up to 625 FPM while maximizing dust holding capacity.

**Frame** – The **Hi-E 40** filter elements are enclosed in a two piece heavy duty, high wet strength beverage board frame. When assembled, the fully bonded double wall frame combines with the integral corner flaps and forms a rugged, durable filter which will not rack, warp or leak under normal operating conditions.

**Media** – A lofted, non-woven pleated filter media composed of non-dyed, natural cotton and synthetic fibers makes up the **Hi-E 40** media. When tested in accordance with ASHRAE testing method 52.1-1992, this fiber blend provides a 25-30% average efficiency and a 90-93% average arrestance and maximizes dust retention capabilities. This media offers a performance of MERV 7 as tested in accordance with ASHRAE testing method 52.2-1999.

To inhibit microbial organism growth, Purolator also offers a **Hi-E 40** filter treated with an EPA approved bound antimicrobial agent (order as HE40AM).

The Purolator **Hi-E 40** pleated filter is U.L. Classified Class 2. Testing on this product was performed in accordance with U.L. Standard 900. Suggested operating temperatures not to exceed 200°F (93°C).

- MERV 7 RATED
- Safe, easy, fast installation
- Lofted, non-woven pleated media
- Expanded metal support grid downstream
- High wet strength beverage board frame
- Diagonal support members bonded to pleats
- Double wall frame construction



The **Hi-E 40** is available in many standard face sizes in order to accommodate most system requirements.

## Applications

The Purolator **Hi-E 40** is effective in stand-alone applications or as a prefilter in higher efficiency systems. In situations where a significantly higher degree of cleanliness and/or longer service life is desired, a **Hi-E 40** pleated filter should be considered.

As time required for installation of filtration products is often a concern, it should be noted that the **Hi-E 40** is easy to install in new or existing side-access housings, package air handling units, and built-up filter banks.

## Economy

The Purolator **Hi-E 40** provides filtration economy in two ways:

1. Medium efficiency filtration drastically reduces building maintenance costs by protecting expensive HVAC equipment from the damaging effects of dirty air.
2. The use of the **Hi-E 40** as a prefilter prolongs the useful life of expensive final filters.

## Hi-E 40 Filter Construction Features

Solvent-free water based adhesive bonds media to frame

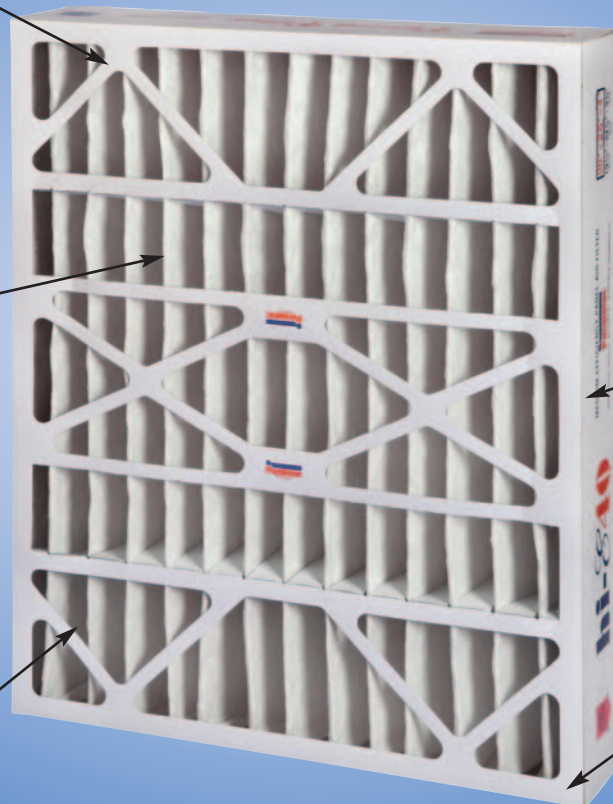
Lofted, non-woven, non-dyed, natural, cotton/synthetic media

Diagonal support members bonded to pleats

Expanded metal support grid downstream

Double-wall construction

High wet strength beverage board frame



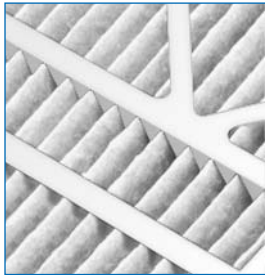
## Pleat Configuration

The filter media derives its support from being continuously bonded to a corrosion resistant, 28-gauge, expanded metal grid allowing a 95% open face area. This media/backing configuration is formed into aerodynamic wedge-shaped pleats. The metal grid maintains pleat shape and prevents fluttering.

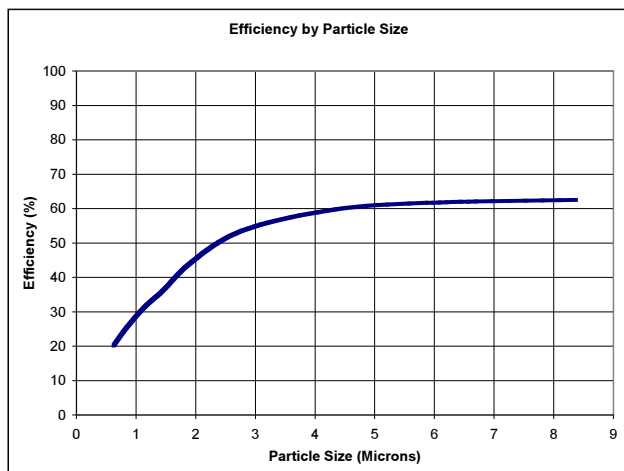
To eliminate the possibility of dirty air bypass, the media pack is securely bonded to the periphery of the enclosure frame with solvent-free water based glue. Pleat stability in operation prevents dirt particles from shaking loose and blowing downstream. Consistent pleat shape also assures maximum air flow with minimum resistance and high dirt loading characteristics throughout the life of the filter.

## Pleat Stabilizers

The 4" deep filters are designed with individual die cut fingers that separate and stabilize each pleat. Consistent pleat alignment enhances dust holding capacity for longer service life.



## Efficiency By Particle Size (Clean Filter)



## Product Specifications

- Available in 1", 2", or 4" depths.
- Media is made of lofted, non-woven, non-dyed, natural cotton and synthetic fibers.
- Media is bonded to a 28-gauge corrosion resistant, expanded metal support grid with a 95% open face area.
- Media grid assembly is bonded to all interior surfaces of the heavy-duty, high wet strength beverage board frame with solvent free water-based glue.
- Media support grid formed into a wedge configuration to optimize use of filter media.
- Rated average efficiency of 25-30% and average arrestance of 90-93% as tested in accordance with ASHRAE 52.1-1992 Test Standard.
- MERV 7 Rating when tested in accordance with ASHRAE Standard 52.2.
- The 1", 2" or 4" series **Hi-E 40** filter has a minimum of \_\_\_\_\_ pleats per lineal foot and contains not less than \_\_\_\_\_ square feet of effective filtering media per square foot of face area.
- Capable of operating at face velocities of up to \_\_\_\_\_ FPM with initial resistance not to exceed \_\_\_\_\_ inches W.G.

# PERFORMANCE DATA: Hi-E 40 Filters

Series in Inches	Nominal(1) Size (In.) WxHxD		Actual Size (In.) WxHxD			Hi-E 40 Model Number	CFM(2) Capacity 300 FPM	CFM(2) Capacity 500 FPM	Resist. In. W.G. 300 FPM	Resist. In. W.G. 500 FPM	Resist. In. W.G. Final(3)	Total Media Area/Filter	Media Area/sq.ft. Face Area
1”  11 pleats per lineal foot of face area	10x10x1	9-1/2	x	9-1/2	x	3/4	HE40-1101	200	350	.24	.42	1.00	1.2
	10x15x1	9-3/4	x	14-3/4	x	3/4	HE40-1501	200	350	.24	.42	1.00	1.6
	10x20x1	9-1/2	x	19-1/2	x	3/4	HE40-1001	425	700	.24	.42	1.00	2.4
	10x24x1	9-3/4	x	23-3/4	x	3/4	HE40-1401	425	700	.24	.42	1.00	2.6
	12x12x1	11-3/4	x	11-3/4	x	3/4	HE40-2201	300	500	.24	.42	1.00	1.5
	12x16x1	11-1/2	x	15-3/4	x	3/4	HE40-2601	300	500	.24	.42	1.00	2.1
	12x20x1	11-1/2	x	19-1/2	x	3/4	HE40-2001	500	850	.24	.42	1.00	2.6
	12x24x1	11-3/8	x	23-3/8	x	3/4	HE40-2401	600	1000	.24	.42	1.00	3.1
	14x14x1	13-3/4	x	13-3/4	x	3/4	HE40-4141	400	680	.24	.42	1.00	3.1
	14x20x1	13-1/2	x	19-1/2	x	3/4	HE40-4001	585	975	.24	.42	1.00	2.8
	14x24x1	13-3/4	x	23-3/4	x	3/4	HE40-1441	730	1200	.24	.42	1.00	2.0
	14x25x1	13-1/2	x	24-1/2	x	3/4	HE40-4501	730	1215	.24	.42	1.00	3.6
	14x30x1	13-3/4	x	29-3/4	x	3/4	HE40-4301	850	1400	.24	.42	1.00	2.2
	15x20x1	14-1/2	x	19-1/2	x	3/4	HE40-5001	625	1040	.24	.42	1.00	3.1
	15x30x1	14-3/4	x	29-3/4	x	3/4	HE40-5301	850	1400	.24	.42	1.00	2.5
	16x16x1	15-3/4	x	15-3/4	x	3/4	HE40-6601	530	890	.24	.42	1.00	2.6
	16x20x1	15-1/2	x	19-1/2	x	3/4	HE40-6001	665	1100	.24	.42	1.00	3.3
	16x24x1	15-1/2	x	23-3/8	x	3/4	HE40-6401	800	1335	.24	.42	1.00	3.4
	16x25x1	15-1/2	x	24-1/2	x	3/4	HE40-6501	850	1400	.24	.42	1.00	4.2
	16x30x1	15-3/4	x	29-3/4	x	3/4	HE40-6301	850	1400	.24	.42	1.00	2.9
	18x18x1	17-3/4	x	17-3/4	x	3/4	HE40-8801	675	1125	.24	.42	1.00	2.9
	18x20x1	17-3/8	x	19-1/2	x	3/4	HE40-8001	750	1250	.24	.42	1.00	3.3
	18x22x1	17-3/8	x	21-1/2	x	3/4	HE40-8201	900	1500	.24	.42	1.00	4.2
	18x24x1	17-3/8	x	23-3/8	x	3/4	HE40-8401	900	1500	.24	.42	1.00	4.5
	18x25x1	17-1/2	x	24-1/2	x	3/4	HE40-8501	950	1550	.24	.42	1.00	4.8
	20x20x1	19-1/2	x	19-1/2	x	3/4	HE40-0001	850	1400	.24	.42	1.00	4.3
	20x22x1	19-3/4	x	21-3/4	x	3/4	HE40-0221	900	1500	.24	.42	1.00	4.3
	20x24x1	19-3/8	x	23-3/8	x	3/4	HE40-0401	1000	1665	.24	.42	1.00	5.1
	20x25x1	19-1/2	x	24-1/2	x	3/4	HE40-0501	1050	1750	.24	.42	1.00	5.4
	20x30x1	19-1/2	x	29-1/2	x	3/4	HE40-0301	1200	1600	.24	.42	1.00	4.3
	22x22x1	21-3/4	x	21-3/4	x	3/4	HE40-2221	1000	1680	.24	.42	1.00	4.3
	24x24x1	23-3/8	x	23-3/8	x	3/4	HE40-4401	1200	2000	.24	.42	1.00	6.0
	24x30x1	23-3/4	x	29-3/4	x	3/4	HE40-2301	1500	2500	.24	.42	1.00	6.0
	25x25x1	24-1/2	x	24-1/2	x	3/4	HE40-5501	1200	2000	.24	.42	1.00	6.6
2”  10 pleats per lineal foot of face area	10x20x2	9-1/2	x	19-1/2	x	1-3/4	HE40-1002	425	700	.16	.24	1.00	4.6
	12x12x2	11-3/4	x	11-3/4	x	1-3/4	HE40-2202	600	900	.16	.24	1.00	3.1
	12x20x2	11-1/2	x	19-1/2	x	1-3/4	HE40-2002	500	850	.16	.24	1.00	5.1
	12x24x2	11-3/8	x	23-3/8	x	1-3/4	HE40-2402	600	1000	.16	.24	1.00	6.1
	14x20x2	13-1/2	x	19-1/2	x	1-3/4	HE40-4002	585	975	.16	.24	1.00	5.6
	14x25x2	13-1/2	x	24-1/2	x	1-3/4	HE40-4502	730	1215	.16	.24	1.00	7.0
	15x20x2	14-1/2	x	19-1/2	x	1-3/4	HE40-5002	625	1040	.16	.24	1.00	6.1
	16x16x2	15-3/4	x	15-3/4	x	1-3/4	HE40-6602	530	890	.16	.24	1.00	5.7
	16x20x2	15-1/2	x	19-1/2	x	1-3/4	HE40-6002	665	1100	.16	.24	1.00	6.6
	16x24x2	15-3/8	x	23-3/8	x	1-3/4	HE40-6402	800	1335	.16	.24	1.00	7.4
	16x25x2	15-1/2	x	24-1/2	x	1-3/4	HE40-6502	850	1400	.16	.24	1.00	8.3
	18x18x2	17-3/4	x	17-3/4	x	1-3/4	HE40-8802	675	1125	.16	.24	1.00	8.3
	18x20x2	17-1/2	x	19-1/2	x	1-3/4	HE40-8002	750	1250	.16	.24	1.00	7.1
	18x22x2	17-1/2	x	21-1/2	x	1-3/4	HE40-8202	900	1500	.16	.24	1.00	7.8
	18x24x2	17-3/8	x	23-3/8	x	1-3/4	HE40-8402	900	1500	.16	.24	1.00	9.1
	18x25x2	17-1/2	x	24-1/2	x	1-3/4	HE40-8502	950	1550	.16	.24	1.00	9.6
	20x20x2	19-1/2	x	19-1/2	x	1-3/4	HE40-0002	850	1400	.16	.24	1.00	8.1
	20x24x2	19-3/8	x	23-3/8	x	1-3/4	HE40-0402	1000	1665	.16	.24	1.00	9.7
	20x25x2	19-1/2	x	24-1/2	x	1-3/4	HE40-0502	1050	1750	.16	.24	1.00	10.2
	20x30x2	19-3/4	x	29-3/4	x	1-3/4	HE40-0302	1200	2000	.16	.24	1.00	13.1
24x24x2	23-3/8	x	23-3/8	x	1-3/4	HE40-4402	1200	2000	.16	.24	1.00	11.6	
25x25x2	24-1/2	x	24-1/2	x	1-3/4	HE40-5502	1200	2000	.16	.24	1.00	12.8	
4”  9 pleats per lineal foot of face area	12x24x4	11-3/8	x	23-3/8	x	3-3/4	HE40-2404	1000	1250	.20	.28	1.00	11.5
	16x20x4	15-1/2	x	19-1/2	x	3-3/4	HE40-6004	1100	1400	.20	.28	1.00	12.7
	16x25x4	15-1/2	x	24-1/2	x	3-3/4	HE40-6504	1400	1750	.20	.28	1.00	15.9
	18x24x4	17-3/8	x	23-3/8	x	3-3/4	HE40-8404	1500	1875	.20	.28	1.00	16.6
	20x20x4	19-1/2	x	19-1/2	x	3-3/4	HE40-0004	1400	1750	.20	.28	1.00	15.9
	20x24x4	19-3/8	x	23-3/8	x	3-3/4	HE40-0404	1625	2050	.20	.28	1.00	19.2
	20x25x4	19-3/8	x	24-3/8	x	3-3/4	HE40-0504	1750	2170	.20	.28	1.00	20.0
	24x24x4	23-3/8	x	23-3/8	x	3-3/4	HE40-4404	2000	2500	.20	.28	1.00	23.0
	25x29x4	24-1/2	x	28-1/2	x	3-3/4	HE40-5904	2500	3150	.20	.28	1.00	29.3
28x30x4	27-1/2	x	29-1/2	x	3-3/4	HE40-8004	2900	3650	.20	.28	1.00	33.6	

(1) Width and height dimensions are interchangeable. The Hi-E 40 may be installed with pleats running vertical or horizontal.

(2) Capacity ratings are recommended levels. Resistance to airflow data is based on the ASHRAE 52.2-1999 Test Method.

Performance tolerances conform to Section 7.4 of ARI Standard 850-93.

(3) The recommended final operating resistance is typical of systems currently in operation. The Hi-E 40 can be operated to higher or lower final resistance levels without adversely affecting filter efficiency.

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## Hi-E<sup>®</sup> 40 CB PLEATED FILTER

*MERV 8 Carbon-loaded Pleated Media*

### Product features

The goal of a Purolator Hi-E 40 CB pleated filter is to promote improved indoor air quality through odor control. These carbon-loaded pleated filters clean the air by removing airborne molecular contaminants present at levels less than one particle per million.

- Efficiency MERV 8: Small (20 x 50 mesh) carbon particles and pleated configuration maximize adsorbent surface area
- Low pressure drop: Uniform dispersion of carbon throughout media, not just on surface, lets air flow freely
- Longer filter life, minimal shedding/dusting: thermal bonding of media to carbon exposes maximum adsorbent surface area
- More adsorbent: pound for pound, our carbon media is six times more effective than competitive GAC carbons

### Applications

The Purolator Hi-E 40 CB filter is recommended for typical IAQ settings of 1ppm or less. Specific applications include air conditioning filters, furnace filters, heating vents, air intakes, air purification devices, and ozone removal devices.

Appropriate end users are those involved with filtration of hospital facilities, chemical plant offices/labs, pollution control areas, sewage disposal and waste management plant offices, airports, kitchens and restaurants, or commercial offices.

### Media

A non-woven dual layer pleated filter media composed of synthetic fibers makes up the Hi-E 40 CB media. The media of the Hi-E 40 CB filter is so stiff with carbon that it is actually self-supporting and requires no external wire reinforcements. The pre-filter layer is MERV 8 - allowing for particulate and odor removal in one package.

Each Hi-E 40 CB filter is loaded with 200 grams/sq. meter (GSM) of superior, 60% active, 20 x 50 mesh-size carbon particles. Our top-grade carbon provides six times the adsorbent surface area of standard GAC carbon - making it vastly more effective, efficient, and long-lasting. No adhesive is used in the media. Fine mesh carbon granules are



bonded to the synthetic fibers by a unique thermal process that requires no adhesive and blinds less than 1.5% of each carbon particle's effective surface area. As a result, more than 98.5% of the carbon's surface is exposed to contaminated air - resulting in maximum gas adsorbing capacity and efficiency. This bonding method also features minimal dust release.

The pleated configuration of the Hi-E 40 CB media also increases the filter's exposed surface area, thereby providing a higher overall efficiency by expanding its capability to adsorb contaminants.

### Frame

The Hi-E 40 CB filter elements are enclosed in a two-piece heavy duty, high-wet-strength beverage board frame. When assembled, the fully bonded double-wall frame combines with the integral corner flaps and forms a rugged, durable filter which will not rack, warp, or leak under normal operating conditions.

# Hi-E® 40 CB PLEATED FILTER

Carbon-loaded Pleated Media



## Performance Data: Hi-E® 40 CB

Series	Hi-E 40 CB Model Number	Nominal <sup>1</sup> Size W x H x D	Actual Size W x H x D	CFM <sup>2</sup> Capacity	Resistance			
					Inches W.G.	Inches W.G. Final <sup>3</sup>	Media Area Sq.ft.	Carbon Weight (g)
<b>1</b> 12 pleats per lineal foot of face area	HE40CB-STD1	12x24x1	11 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 3 <sup>4</sup> / <sub>4</sub>	600	.45	1.00	2.6	48
	HE40CB-STD1	16x20x1	15 <sup>1</sup> / <sub>2</sub> x 19 <sup>1</sup> / <sub>2</sub> x 3 <sup>4</sup> / <sub>4</sub>	665	.45	1.00	3.4	63
	HE40CB-STD1	16x25x1	15 <sup>1</sup> / <sub>2</sub> x 24 <sup>1</sup> / <sub>2</sub> x 3 <sup>4</sup> / <sub>4</sub>	850	.45	1.00	4.3	80
	HE40CB-STD1	18x24x1	17 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 3 <sup>4</sup> / <sub>4</sub>	900	.45	1.00	4.4	81
	HE40CB-STD1	20x20x1	19 <sup>1</sup> / <sub>2</sub> x 19 <sup>1</sup> / <sub>2</sub> x 3 <sup>4</sup> / <sub>4</sub>	850	.45	1.00	4.3	80
	HE40CB-STD1	20x25x1	19 <sup>1</sup> / <sub>2</sub> x 24 <sup>1</sup> / <sub>2</sub> x 3 <sup>4</sup> / <sub>4</sub>	1050	.45	1.00	5.3	98
	HE40CB-STD1	24x24x1	23 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 3 <sup>4</sup> / <sub>4</sub>	1200	.45	1.00	6.1	113
<b>2</b> 11 pleats per lineal foot of face area	HE40CB-STD2	12x24x2	11 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 1 <sup>3</sup> / <sub>4</sub>	1000	.60	1.00	5.9	109
	HE40CB-STD2	16x20x2	15 <sup>1</sup> / <sub>2</sub> x 19 <sup>1</sup> / <sub>2</sub> x 1 <sup>3</sup> / <sub>4</sub>	1100	.60	1.00	6.9	128
	HE40CB-STD2	16x25x2	15 <sup>1</sup> / <sub>2</sub> x 24 <sup>1</sup> / <sub>2</sub> x 1 <sup>3</sup> / <sub>4</sub>	1400	.60	1.00	8.7	162
	HE40CB-STD2	18x24x2	17 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 1 <sup>3</sup> / <sub>4</sub>	1500	.60	1.00	9.3	172
	HE40CB-STD2	20x20x2	19 <sup>1</sup> / <sub>2</sub> x 19 <sup>1</sup> / <sub>2</sub> x 1 <sup>3</sup> / <sub>4</sub>	1400	.60	1.00	8.9	165
	HE40CB-STD2	20x25x2	19 <sup>1</sup> / <sub>2</sub> x 24 <sup>1</sup> / <sub>2</sub> x 1 <sup>3</sup> / <sub>4</sub>	1750	.60	1.00	11.2	208
	HE40CB-STD2	24x24x2	23 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 1 <sup>3</sup> / <sub>4</sub>	2000	.60	1.00	12.5	232
<b>4</b> 11 pleats per lineal foot of face area	HE40CB-STD4	12x24x4	11 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 3 <sup>3</sup> / <sub>4</sub>	1250	.55	1.00	12.7	235
	HE40CB-STD4	16x20x4	15 <sup>3</sup> / <sub>8</sub> x 19 <sup>3</sup> / <sub>8</sub> x 3 <sup>3</sup> / <sub>4</sub>	1400	.55	1.00	14.9	275
	HE40CB-STD4	16x25x4	15 <sup>3</sup> / <sub>8</sub> x 24 <sup>3</sup> / <sub>8</sub> x 3 <sup>3</sup> / <sub>4</sub>	1750	.55	1.00	18.7	346
	HE40CB-STD4	18x24x4	17 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 1 <sup>3</sup> / <sub>4</sub>	1875	.55	1.00	18.8	348
	HE40CB-STD4	20x20x4	19 <sup>3</sup> / <sub>8</sub> x 19 <sup>3</sup> / <sub>8</sub> x 3 <sup>3</sup> / <sub>4</sub>	1750	.55	1.00	19.1	353
	HE40CB-STD4	20x25x4	19 <sup>3</sup> / <sub>8</sub> x 24 <sup>3</sup> / <sub>8</sub> x 3 <sup>3</sup> / <sub>4</sub>	2170	.55	1.00	24.1	446
	HE40CB-STD4	24x24x4	23 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 3 <sup>3</sup> / <sub>4</sub>	2500	.55	1.00	26.8	496

(1) Width and height dimensions are interchangeable. The Hi-E 40 CB may be installed with pleats running vertical or horizontal.

(2) Capacity ratings are recommended levels. Resistance to airflow data is based on ASHRAE 52.2 Test Method. Data based on a 24x24 at a test velocity of 492 FPM.

(3) The recommended final operating resistance is typical of systems currently in operation. The Hi-E 40 CB can be operated to higher or lower final resistance levels without materially affecting filter efficiency.

## Product Specifications

1. The filter shall be the Hi-E 40 CB as manufactured by CLARCOR Air Filtration.
2. The filter shall have a MERV 8 pre-filter layer.
3. Air filters shall be (1"), (2"), and (4") deep pleated media, disposable panel type.
4. Pleat element shall be made with carbon element containing 200 grams/sq. meter (GSM).
5. To assure no dirty air bypass, the media grid assembly shall be bonded to all interior surfaces of the water resistant, die-cut frame with solvent-free water based glue.
6. The support grid shall be formed into a wedge configuration to optimize use of the filter media.
7. To maintain accurate pleat alignment on 4" depth filters, die-cut diagonal frame members shall be bonded to the media pack upstream and downstream.

P-HIE40CB-0813



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## MONO PLEAT

*Monobond Frame Medium Efficiency  
Pleated Air Filter*

### Introduction

The Purolator Mono Pleat combines high performance filtration with a unique Monobond frame construction. The result is an economical, high capacity, medium efficiency air filter designed for applications where a 1" disposable panel filter is required.

### Frame Construction

The Mono Pleat utilizes a one-piece wrap around chipboard frame. The media is mechanically bonded to the frame by a thermal plastic sealant activated by heat and pressure.

The Monobond frame design prevents sagging and provides overall filter strength necessary for residential, commercial or light industrial applications.

### Filtration Media

The filter element is a synthetic material laminated to an electro-galvanized expanded metal support grid.

When tested in accordance with ASHRAE 52.1-1992 Test Standard, the fiber blend maximizes dust retention capabilities while giving the Mono Pleat an average arrestance of 85-90% and an average efficiency of 20-25%.

### Applications

Purolator manufactures the Mono Pleat for use in homes, apartments, hotels and service industries desiring upgraded performance from low-efficiency filtration.



### Performance Data

Series	FPM Capacity	Resistance @Capacity (in w.g.)	Pleats Per Foot
Standard Capacity	150	.12	11
	225	.18	
	300	.25	
	375	.34	
High Capacity	150	.08	16
	225	.12	
	300	.16	
	375	.22	



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P-MPLEAT-210

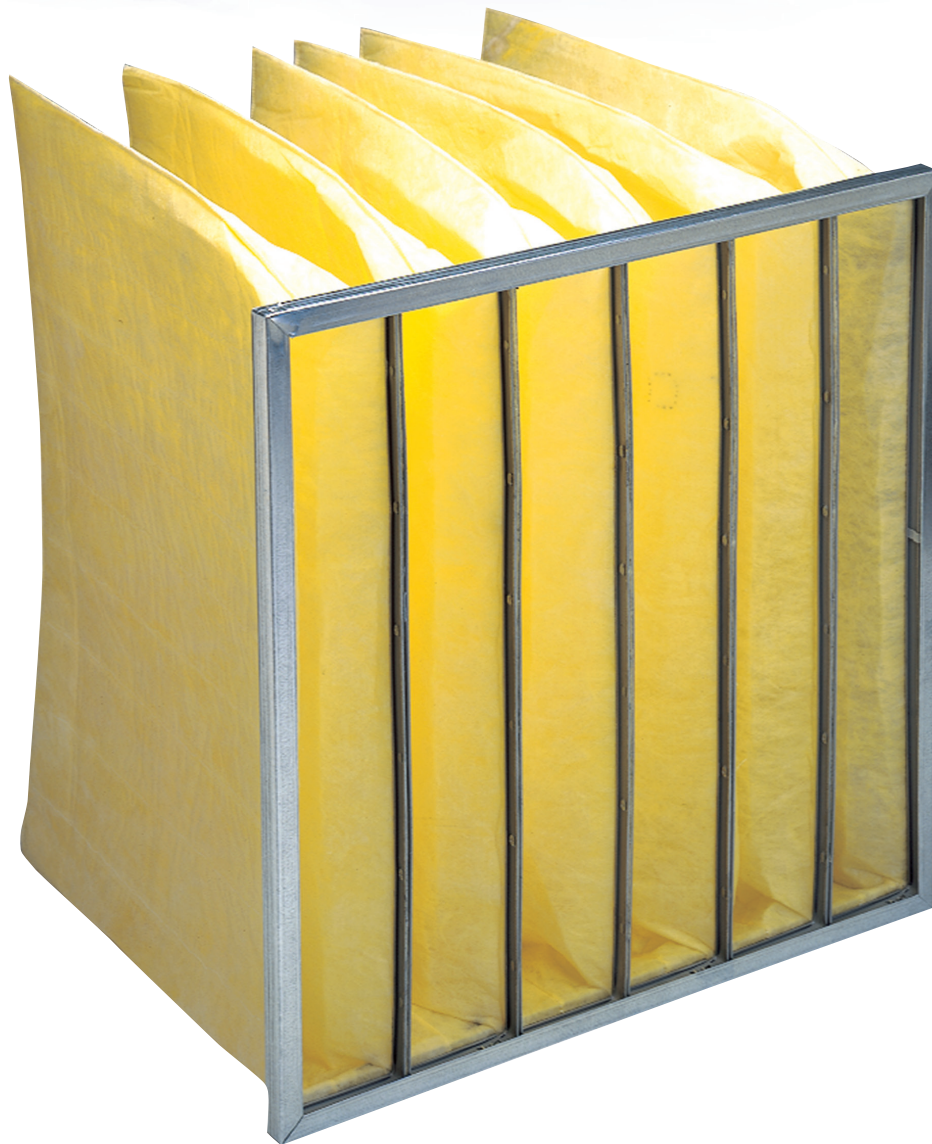
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## **SERVA-PAK™**

*Extended Surface, High-Capacity Bag Filter*



*Unique Stitch Configuration For Superior Air Flow And Uniform Media Separation:*

- High Density Glass Microfibers
- Classified per UL Standard 900
- Up To MERV 14 Performance
- Corrosion-Resistant Galvanized Header
- Rigid Internal Support



# SERVA-PAK™

*Extended Surface, High Capacity Bag Filter*

Purolator's SERVA-PAK is an extended surface high capacity air filter composed of individual dust holding pockets assembled in a metal support frame. A special multi-row stitching process performed on layers of ultra-fine glass bonded to a non-woven backing produces uniform spacing between each pocket, and provides optimum media performance while extending filter life.

Each pocket is bonded and sealed to its own J-channel support frame, which is mechanically fastened to a heavy duty, corrosion resistant, galvanized enclosure frame. This design creates a rigid, air tight construction with a minimum of 85% open face area.

The SERVA-PAK is available in a variety of filter efficiencies, face sizes, depth and capacity combinations to accommodate most system requirements: limited fan static, high concentration of contaminants, limited filter bank face area, etc. Appropriate product selection will maximize performance. (Refer to the performance data section for full listing of sizes and efficiency data.)

## Fire-Resistant Construction

All SERVA-PAK filters are classified by Underwriters Laboratories, Inc. Testing is performed in accordance with UL Standard 900 for flammability.

Unique stitch configuration for superior air flow and uniform media separation

Double-lock stitching

High-density glass microfibers

## Header Frame Construction

The corrosion resistant, galvanized header frame is designed with interlocking mitered corners to create rigid internal support. To maximize SERVA-PAK performance the header is constructed to prevent air leakage by eliminating metal-to-metal contact points between individual components. During assembly, each fiberglass-to-metal contact point is glued to prevent air bypass between mechanically fastened pockets. A unique process of fastening adjacent J-channel frames prevents media damage during assembly and shipment.

## Standard Sizes

The SERVA-PAK filter is offered in twelve standard filter face sizes, making it adaptable to a variety of frame and track systems.

## Multiple Capacities and Depths

The variety of SERVA-PAK filter sizes and efficiency options allows you to match the proper filter with virtually any application. With many depth and capacity combinations to choose from, most system conditions, including limited fan static, high concentration of contaminants, and limited filter bank face area, can be accommodated.

## Frame Features

The SERVA-PAK header is manufactured from corrosion-resistant, galvanized metal. The frame features rigid internal support for the filter, and interlocking mitered corners.

Pack secured by means of internal mechanical fasteners

Continuous media-to-metal bonded construction

Individual galvanized J-channel support frame

**Purolator**

### Frame Features

- Corrosion-resistant, galvanized header
- Rigid internal support
- Interlocking mitered corners

## Product Specifications

Air filters shall be replaceable, factory assembled filters consisting of multiple dust holding pockets assembled in a corrosion-resistant galvanized steel frame.

Filter media shall be of high density ultra-fine glass microfiber formed into a .25" thick filter blanket and reinforced by an integral scrim backing. The filter shall have a MERV of \_\_\_\_ when tested in accordance with ASHRAE standard 52.2-2007.

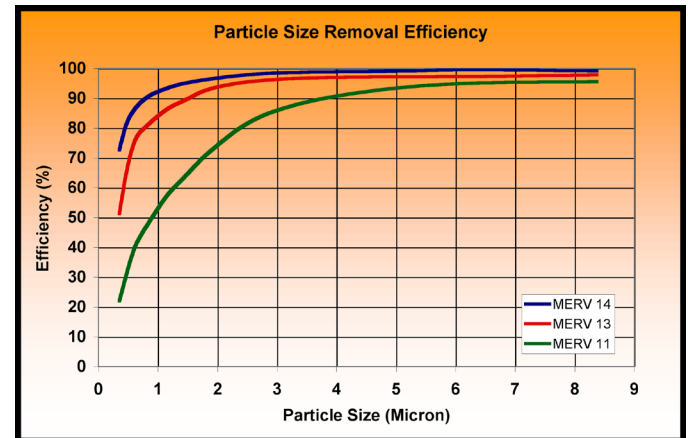
A multi-row stitching process shall produce individual self-supporting dust holding pockets to achieve uniform media spacing thereby extending filter life and optimizing performance. The multiple rows of stitching shall be sealed with a hot-melt adhesive. Dust holding pockets shall be bonded to their own metal support frame and assembled into a heavy gauge galvanized steel enclosure frame. Side-by-side pockets shall be mechanically fastened to the adjacent frames using a non-piercing clinch. The open area of the filter shall be greater than 85% of the total face area.

The filter shall be classified by Underwriters Laboratories, Inc. for flammability. Each filter shall have a rating of \_\_\_\_\_ CFM at an initial resistance not to exceed \_\_\_\_\_ inches w.g. Each filter shall have no less than \_\_\_\_\_ sq. ft. of media area.

## Performance Data: SERVA-PAK 50

Nominal size WxHxD	# of pockets	Media area sq. ft.	model no.	CFM capacity			Resist. in. W.G.		
				low	med	high	low	med	high
24x24x10	6	22	SP5006 4410	800	1200	1600	.08	.12	.18
20x24x10	5	18	SP5005 0410	650	1000	1250	.08	.14	.18
20x20x10	5	15	SP5005 0010	575	900	1050	.08	.14	.16
12x24x10	3	10	SP5003 2410	400	600	800	.08	.13	.20
24x24x15	6	33	SP5006 4415	1000	1500	2000	.06	.10	.16
20x24x15	5	28	SP5005 0415	750	1250	1500	.06	.13	.18
20x20x15	5	24	SP5005 0015	625	1150	1300	.06	.13	.16
12x24x15	3	16	SP5003 2415	500	750	1000	.06	.14	.20
24x24x18	6	40	SP5006 4418	1500	2000	2500	.10	.16	.24
20x24x18	5	33	SP5005 0418	1250	1600	2000	.10	.16	.24
20x20x18	5	28	SP5005 0018	1150	1500	1750	.12	.17	.22
12x24x18	3	20	SP5003 2418	750	1000	1250	.11	.18	.27
24x24x22	6	49	SP5006 4422	2000	2500	3000	.17	.24	.34
20x24x22	5	41	SP5005 0422	1600	2000	2500	.16	.24	.34
20x20x22	5	35	SP5005 0022	1500	1750	2000	.17	.22	.28
12x24x22	3	25	SP5003 2422	1000	1250	1500	.18	.26	.37

## Efficiency curve



## Media efficiency

Series Rating	Media Color	MERV
VP40	yellow	9
VP50	tan	10
VP65	orange	11
VP85	red	13
VP95	yellow	14

Header Sizes (W x H)	Number of Pockets (3-12)
24x24	5-12
12x24	3-5
24x12	5-12
20x24	5-9
24x20	5-12
20x20	4-9
16x20	3-7
20x16	4-9
16x25	4-7
25x16	5-12
20x25	5-9
25x20	5-12

Min Depth 10"; Max Depth 36"

## Performance Data: SERVA-PAK 40

Nominal size WxHxD	# of pockets	Media area sq. ft.	model no.	CFM capacity			Resist. in. W.G.		
				low	med	high	low	med	high
24x24x12	6	27	SP40G6 4412	1000	1500	2000	.06	.10	.16
20x24x12	5	24	SP40G5 0412	850	1250	1600	.08	.10	.15
20x20x12	5	22	SP40G5 0012	775	1000	1500	.07	.11	.19
12x24x12	3	13	SP40G3 2412	500	750	1000	.07	.11	.18
24x24x21	6	46	SP40G6 4421	2000	2500	3000	.14	.20	.28
20x24x21	5	41	SP40G5 0421	1600	2000	2500	.13	.20	.28
20x20x21	5	39	SP40G5 0021	1500	1750	2000	.17	.22	.28
12x24x21	3	23	SP40G3 2421	1000	1250	1500	.14	.22	.32

# SERVA-PAK™

Extended Surface, High-Capacity Bag Filter



## Performance Data: SERVA-PAK 65/85/95

Nominal size WxHxD	# of pockets	Media area sq. ft.	CFM capacity			65				85				95			
			low	med	high	model no.	low	med	high	model no.	low	med	high	model no.	low	med	high
24x24x15	12	61	1000	1500	2000	SP6512 4415	.16	.32	.54	SP8512 4415	.22	.39	.61	SP9512 4415	.38	.69	.82
20x24x15	10	51	800	1250	1600	SP6510 0415	.08	.16	.25	SP8510 0415	.18	.31	.44	SP9510 0415	.33	.55	.75
12x24x15	6	30	500	750	1000	SP6506 2415	.14	.28	.38	SP8506 2415	.20	.28	.44	SP9506 2415	.43	.54	.80
24x24x36	10	120	2000	2500	-	SP6510 4436	.19	.30	-	SP8510 4436	.32	.46	-	SP9510 4436	.46	.67	-
20x24x36	8	96	1600	2000	-	SP6508 0436	.19	.28	-	SP8508 0436	.29	.41	-	SP9508 0436	.33	.46	-
12x24x36	5	60	1000	1250	-	SP6505 2436	.22	.32	-	SP8505 2436	.34	.50	-	SP9505 2436	.48	.70	-
24x24x30	10	99	1500	2000	2500	SP6510 4430	.12	.19	.29	SP8510 4430	.20	.34	.50	SP9510 4430	.32	.50	.70
20x24x30	8	79	1200	1600	2000	SP6508 0430	.11	.18	.26	SP8508 0430	.16	.24	.34	SP9508 0430	.32	.47	.63
12x24x30	5	50	750	1000	1250	SP6505 2430	.13	.21	.32	SP8505 2430	.24	.37	.54	SP9505 2430	.34	.50	.70
24x24x22	10	76	1000	1500	2000	SP6510 4422	.06	.12	.20	SP8510 4422	.14	.22	.38	SP9510 4422	.25	.40	.58
20x24x22	8	61	800	1200	1600	SP6508 0422	.06	.10	.18	SP8508 0422	.13	.21	.31	SP9508 0422	.24	.36	.51
12x24x22	5	38	500	750	1000	SP6505 2422	.09	.14	.25	SP8505 2422	.15	.26	.42	SP9505 2422	.33	.38	.52
24x24x37	9	117	2000	2500	-	SP6509 4437	.19	.30	-	SP8509 4437	.30	.44	-	SP9509 4437	.48	.68	-
24x24x30	9	87	1500	2000	2500	SP6509 4430	.12	.20	.31	SP8509 4430	.24	.37	.53	SP9509 4430	.34	.52	.73
24x24x22	9	69	1000	1500	2000	SP6509 4422	.07	.14	.22	SP8509 4422	.16	.28	.42	SP9509 4422	.28	.45	.62
24x24x36	8	100	1500	2000	2500	SP6508 4436	.12	.20	.30	SP8508 4436	.19	.30	.42	SP9508 4436	.30	.45	.62
20x24x36	6	75	1200	1600	2000	SP6506 0436	.09	.14	.21	SP8506 0436	.15	.22	.31	SP9506 0436	.30	.40	.54
12x24x36	4	50	750	1000	1250	SP6504 2436	.14	.22	.33	SP8504 2436	.20	.31	.44	SP9504 2436	.29	.43	.60
24x24x30	8	84	1500	2000	2500	SP6508 4430	.12	.20	.30	SP8508 4430	.22	.34	.50	SP9508 4430	.34	.50	.65
20x24x30	6	63	1200	1600	2000	SP6506 0430	.09	.15	.22	SP8506 0430	.19	.28	.38	SP9506 0430	.27	.39	.51
12x24x30	4	42	750	1000	1250	SP6504 2430	.13	.22	.32	SP8504 2430	.21	.33	.46	SP9504 2430	.42	.61	.83
24x24x22	8	62	1000	1500	2000	SP6508 4422	.07	.13	.21	SP8508 4422	.16	.27	.40	SP9508 4422	.30	.45	.64
20x24x22	6	47	800	1200	1600	SP6506 0422	.05	.09	.15	SP8506 0422	.16	.25	.36	SP9506 0422	.29	.44	.62
12x24x22	4	31	500	750	1000	SP6504 2422	-	.14	.22	SP8504 2422	.16	.28	.40	SP9504 2422	.29	.46	.64
24x24x37	7	94	1500	2000	2500	SP6507 4437	.11	.20	.30	SP8507 4437	.18	.28	.40	SP9507 4437	.30	.44	.60
24x24x30	7	70	1500	2000	2500	SP6507 4430	.11	.19	.28	SP8507 4430	.21	.31	.44	SP9507 4430	.31	.45	.60
24x24x22	7	55	1000	1500	2000	SP6507 4422	.06	.12	.19	SP8507 4422	.18	.30	.44	SP9507 4422	.32	.50	.71
24x24x36	6	78	-	1500	2000	SP6506 4436	-	.11	.20	SP8506 4436	-	.18	.28	SP9506 4436	-	.34	.48
20x24x36	5	65	-	1200	1600	SP6505 0436	-	.12	.19	SP8505 0436	-	.18	.28	SP9505 0436	-	.34	.48
12x24x36	3	39	-	750	1000	SP6503 2436	-	.14	.24	SP8503 2436	-	.20	.32	SP9503 2436	-	.36	.55
20x20x36	5	55	-	1200	1600	SP6505 0036	-	.13	.20	SP8505 0036	-	.24	.35	SP9505 0036	-	.38	.55
24x24x30	6	65	-	1500	2000	SP6506 4430	-	.11	.18	SP8506 4430	-	.24	.36	SP9506 4430	-	.33	.47
20x24x30	5	54	-	1200	1600	SP6505 0430	-	.11	.18	SP8505 0430	-	.22	.32	SP9505 0430	-	.41	.57
12x24x30	3	33	-	750	1000	SP6503 2430	-	.12	.18	SP8503 2430	-	.22	.33	SP9503 2430	-	.34	.50
20x20x30	5	45	-	1200	1600	SP6505 0030	-	.14	.24	SP8505 0030	-	.28	.40	SP9505 0030	-	.48	.66
24x24x22	6	48	1000	1250	1500	SP6506 4422	.07	.10	.13	SP8506 4422	.21	.26	.34	SP9506 4422	.36	.46	.56
20x24x22	5	40	750	1000	1250	SP6505 0422	.06	.10	.13	SP8505 0422	.18	.24	.31	SP9505 0422	.27	.40	.49
12x24x22	3	24	500	625	750	SP6503 2422	.07	.10	.14	SP8503 2422	.20	.26	.32	SP9503 2422	.36	.46	.57
20x20x22	5	34	750	1000	1250	SP6505 0022	.08	.12	.17	SP8505 0022	.21	.30	.39	SP9505 0022	.36	.52	.66

### Nominal Size

W x H

24" x 24"

20" x 24"

20" x 20"

12" x 24"

### Actual Size

W x H

23-3/8" x 23-3/8"

19-3/8" x 23 3/8"

19-3/8" x 19-3/8"

11-3/8" x 23-3/8"

### NOTES:

- All performance data based on ASHRAE standard 52.2-2007  
Tested at 492 FPM on standard 24x24x29, 8 pocket filter.
- Filters operate satisfactorily in the CFM range shown.

Nominal and Actual Depths are 11", 19", 22", 26", and 30"

P-SPAK-0912



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## MARK 7

*Self-Supported Pleated Panel Filters*



### *Main Features:*

- MERV 7 (Mechanical)
- 100% Synthetic Media
- Self Supported
- Damage Resistant
- No Metal
- Fully Incinerable



# MARK 7

Self-Supported Pleated Panel Filters

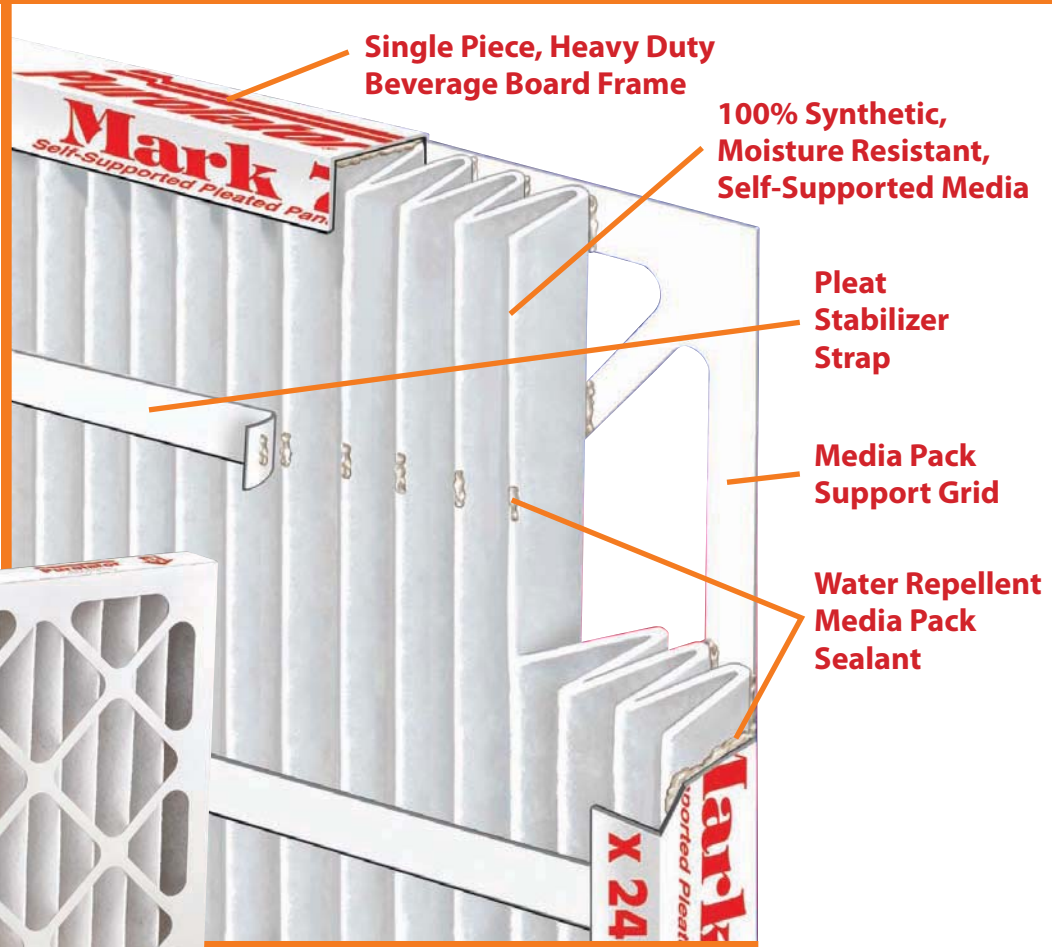
## Self-Supported Media Produces Totally Consistent Pleat Shape and Spacing

The inherent strength and stiffness of the unique Mark 7 media results in totally consistent pleat shape, pleat spacing and pleat height. Uniform pleat shape and spacing produce optimum performance, including uniform dirt loading, high dust holding capacity, long service life. No pleat bunching, no media blockage.



## Excellent Memory – No Pleat Deformation, Damage Resistant

The high strength, stiff media has excellent memory and resiliency. If it is damaged or deformed in any way, it snaps back to its original shape with no loss of structural integrity. Shipping and handling damage are largely a thing of the past with Mark 7 Pleats. They take a beating and keep on working.



*Consistent pleat shape and spacing allow dirt to collect evenly over the entire surface of the media. Pleat stabilizer straps add rigidity and maintain proper pleat spacing. Inset photo of air leaving side shows the integral media pack support grid.*

## Heavy Duty Single Piece Frame Reinforced with Pleat Stabilizer Straps

Mark 7 pleats are built tough to hold up in all types of operating conditions. The media pack is contained in a single piece beverage board frame for high moisture resistance and long service life. The frame has an integral media pack support grid on the air leaving side reinforced with pleat stabilizer straps on the air entering side.

The grid provides necessary support to the pleat pack as the dirt load builds and resistance rises. The stabilizer straps add rigidity to the filter assembly and maintain uniform pleat spacing to maximize dirt loading.

**Moisture Resistant,  
100% Synthetic Media (Uncharged)**

Mark 7 media is a unique blend of synthetic fibers formed into a rigid mat with high strength and high stiffness characteristics. The inherent strength provides rugged durability in operation. Stiffness allows totally consistent pleating. Blended fiber construction allows full depth loading for high dust holding capacity. The media is unaffected by high humidity or moisture and does not support microbial growth.

Mark 7 filter media operates totally on mechanical filtration principles which causes efficiency to increase as the filters load. It is not enhanced with an electrostatic charge.

**100% Adhesive Application –  
Assures Filter Integrity**

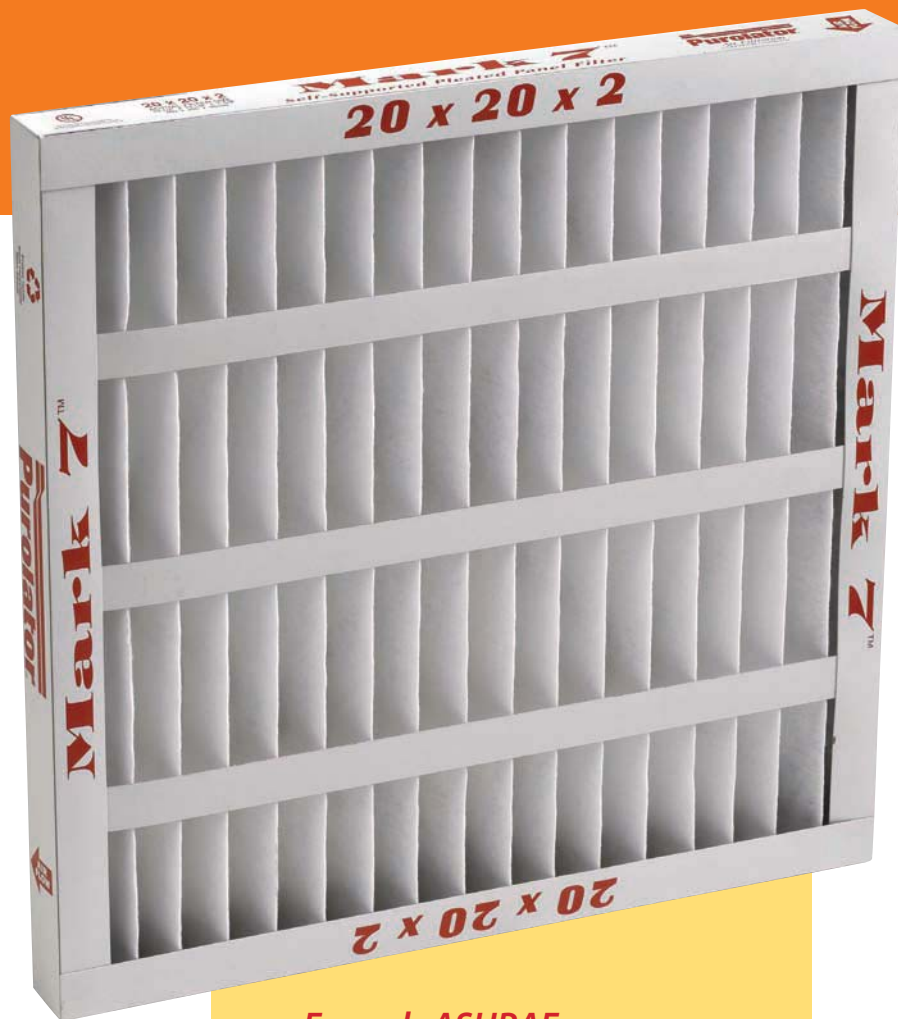
The inside of the die cut frame is completely coated with adhesive to assure a solid bond at all points of contact with the media pack. The pack is sealed inside the frame and the pleat tips are bonded to the stabilizers and diagonal support members.

**Water Repellent Adhesive –  
Adheres Even When Wet**

The sealant used to bond the frame and media pack into a unitized assembly is highly water repellent. The filters maintain structural integrity even when wet. No delaminating, no excessive buckling, no collapsing.

**No Metal Components.  
Fully Incinerable, No Rust**

Self-supported Mark 7 filters eliminate the need for a metal backing to shape the pleats. They are fully incinerable, simplifying disposal. Metal-free construction is rust-free and also eliminates sharp edges which could injure maintenance personnel.



*Exceeds ASHRAE  
Standard 62 air cleaning  
specifications for filters  
installed upstream of  
cooling coils.*

**It's all about Engineering  
with Imagination**

Mark 7 Pleats are the result of combining creative engineering with imagination. Through effective use of materials, media development and a breakthrough in automated assembly techniques, Mark 7 sets a new standard for pleated filter construction and performance.

  
**Purolator®**

# MARK 7

Self-Supported Pleated Panel Filters

Nominal Size <sup>2</sup> Inches (WxHxD)	Actual Size Inches (WxHxD)	Rated Air Flow Capacity (CFM)		
		300 FPM	500 FPM	625 FPM
10 x 20 x 2	9½ x 19½ x 1¾	425	700	870
12 x 20 x 2	11½ x 19½ x 1¾	500	840	1050
12 x 24 x 2	11¾ x 23¾ x 1¾	600	1000	1250
14 x 20 x 2	13½ x 19½ x 1¾	590	980	1220
14 x 25 x 2	13½ x 24½ x 1¾	730	1220	1525
14½ x 26¾ x 2	14½ x 26¾ x 1¾	810	1350	1690
15 x 20 x 2	14½ x 19½ x 1¾	630	1050	1310
16 x 20 x 2	15½ x 19½ x 1¾	670	1120	1400
16 x 24 x 2	15¾ x 23¾ x 1¾	800	1340	1670
16 x 25 x 2	15½ x 24½ x 1¾	840	1400	1750
18 x 20 x 2	17½ x 19½ x 1¾	750	1250	1570
18 x 24 x 2	17¾ x 23¾ x 1¾	900	1500	1875
18 x 25 x 2	17½ x 24½ x 1¾	940	1570	1960
20 x 20 x 2	19½ x 19½ x 1¾	840	1400	1750
20 x 24 x 2	19¾ x 23¾ x 1¾	1000	1670	2090
20 x 25 x 2	19½ x 24½ x 1¾	1050	1750	2170
24 x 24 x 2	23¾ x 23¾ x 1¾	1200	2000	2500
25 x 25 x 2	24½ x 24½ x 1¾	1310	2170	2720

1. All performance data is based on the ASHRAE 52.2-2007 Test Standard. Tests performed at 492 FPM on 24x24x2 nominal size.

2. Filters may be installed with the pleats either vertical (preferred) or horizontal.

**Underwriters Laboratories, Inc. Classification:** Mark 7 filters are classified U.L. Class 2 per U.L. Standard 900.

**Operating Temperature Limits:** Maximum operating temperature is 150°F (65°C).

## Performance Data

MERV ..... 7

Initial Resistance

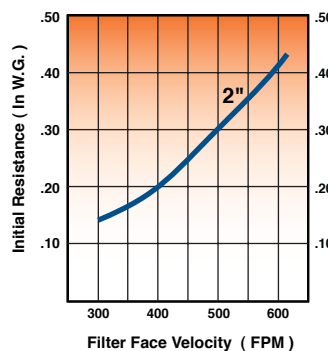
@300 FPM ..... 14"

@500 FPM ..... 30"

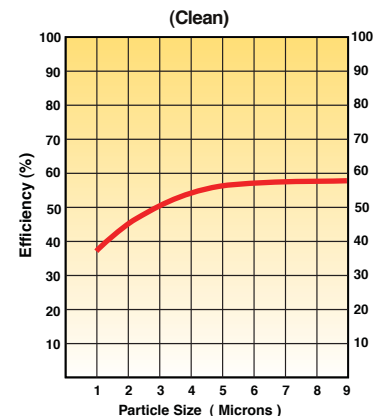
Recommended

Final Resistance ..... 1.0" W.G.

## Initial Resistance vs. Filter Face Velocity



## Efficiency by Particle Size



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**P-MARK7-509**

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The **F312** disposable panel filters are designed to withstand the demands of tough industrial and commercial applications. Purolator assures filter durability by utilizing construction features not found in traditional designs.

**Frame** – Purolator **F312** frames are produced using post-consumer recycled materials. The unique Monobond pinch frame concept involves a one-piece frame sealed to the media under heat and pressure. This construction feature produces a continuous bond of media to board around the periphery of the frame, eliminating weak corners and air bypass. The use of a high tensile strength polyethylene binder increases the integrity of the seal, allowing the filter to withstand varying temperatures and humidity levels.

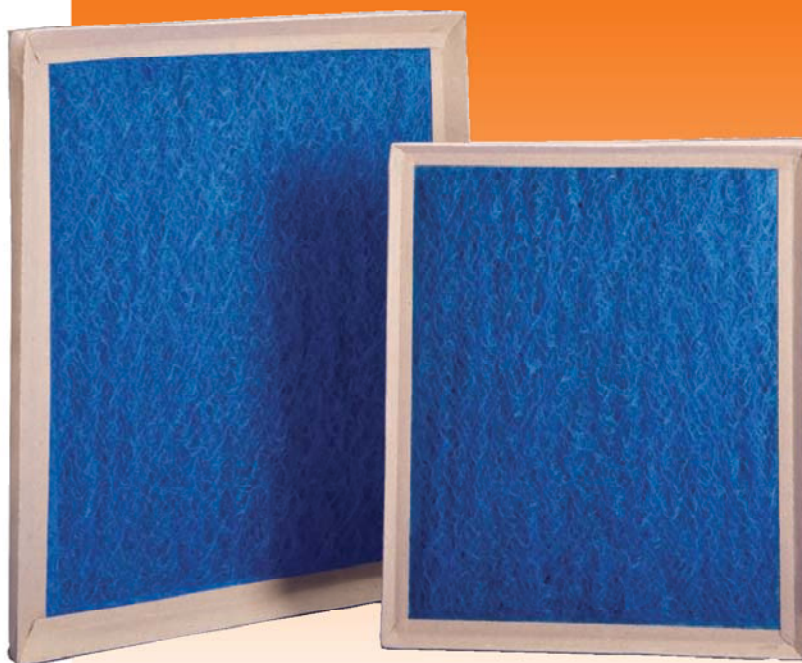
**Media** – Purolator **F312** filters are manufactured with superior grade fiberglass media to guarantee full depth loading and high dust holding capacity. A computer-controlled manufacturing process assures a uniform gradient density pattern in the media.

To enhance filtration capability and prevent migration of finer particles, the filter media has a skin backing and is evenly coated with a gelled adhesive.

**Application** – Purolator's **F312** filters perform best in conditions where large quantities of lint and dust are present. The rugged construction makes these filters industry leaders in the high velocity system, prefilter market.

## Model F312

*Industrial Strength, 1" & 2" Disposable Panel Filters  
Fiberglass Media*



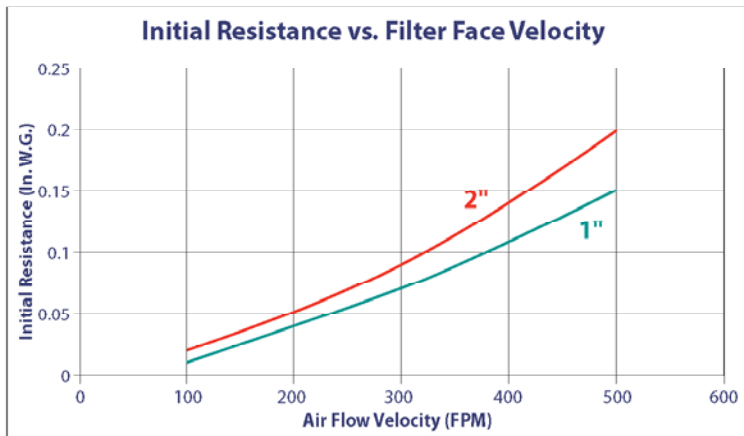
**Pinch Frame Design**

- **Performance is enhanced by a skin backing on the air leaving side of the media**
- **Improved aerodynamics reduce restriction to air flow**
- **Safe, easy, fast installation**
- **Larger effective filtering surface area**
- **Wide selection of standard sizes**
- **Classified Class 2 by Underwriters Laboratories, Inc.**

# Model F312

Industrial Strength, 1" & 2" Disposable Panel Filters, Fiberglass Media

Category	F312 1"	F312 2"
Air Flow Velocity (FPM)	300	300
Initial Resistance (In. W.G.)	.07"	.09"
Recommended Final Resistance (In. W.G.)	.50"	1.0"
Average Arrestance (%)	72%	75%



\*Resistance climbs more rapidly on 1" thus reducing dust holding capacity and filter life. Testing conducted in accordance with the ASHRAE 52.1-1992 Test Standard. Classified Class 2 by Underwriters Laboratories, Inc.

## Standard 1" and 2" Sizes

1 Inch					2 Inch	
8x16	12x18	14x25	16x25	20x25	10x20	18x24
8x30	12x20	14x30	16x30	20x30	12x24	20x20
10x10	12x24	15x20	18x18	22x22	14x20	20x24
10x16	12x25	15x25	18x20	24x24	14x25	20x25
10x20	12x30	15x30	18x24	24x30	15x20	24x24
10x24	14x14	15x30½	18x25	25x25	16x16	25x25
10x25	14x16	16x16	18x30		16x20	
10x30	14x18	16x18	20x20		16x24	
12x12	14x20	16x20	20x22¼		16x25	
12x16	14x24	16x24	20x24			

P-F312-810



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## Model P312

*Industrial Strength, 1" & 2" Disposable Panel Filters  
Synthetic Media*

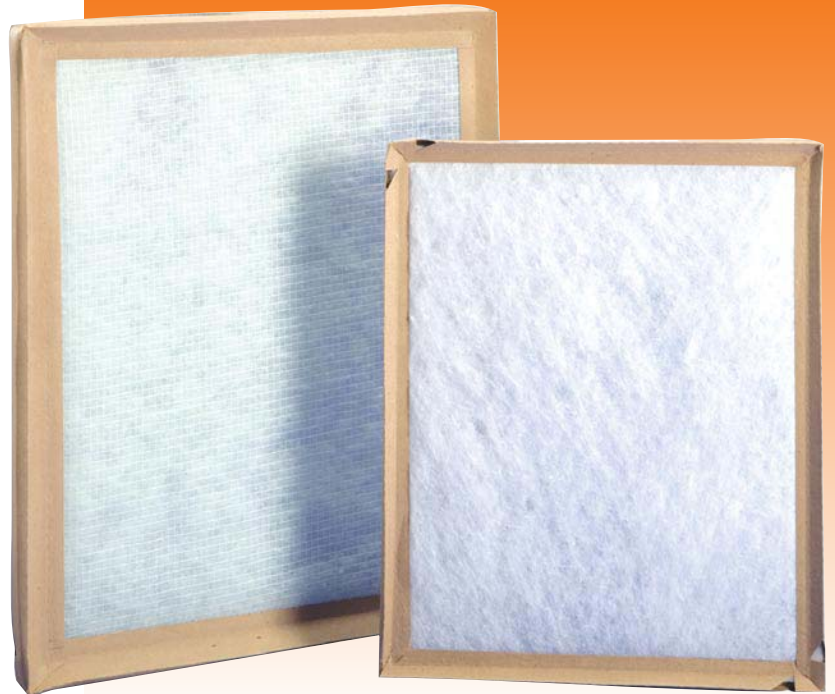
Our long standing excellence in providing durable, top performing disposable filters is applied to the manufacturing of poly fiber **P312** filters. Ideally suited for residential, commercial, or light industrial use, the polyester media was developed for situations where synthetic media products are required.

**Frame** – The **P312** frame is produced using post consumer materials. The unique Monobond pinch frame concept involves a one piece frame sealed to the media under heat and pressure. This construction feature produces a continuous bond of media to board around the periphery of the frame, eliminating weak corners and air bypass. The use of a high tensile strength binder increases the integrity of the seal, allowing the filter to withstand varying temperatures and humidity levels.

When compared to traditional designs, the filter's notched frame corners allow units to interlock, providing up to 33% savings on warehouse space and freight costs.

**Media** – The synthetic media used in a **P312** consists of polyester filters bonded together in an interlocking pattern of tiny lint and dust traps. This configuration maximizes dust loading while minimizing resistance and surface loading.

**Application** – **P312** filters perform best in conditions where large quantities of lint and dust are present. Their rugged construction makes them industry leaders in the high velocity system, prefilter market.



**Pinch Frame Design**



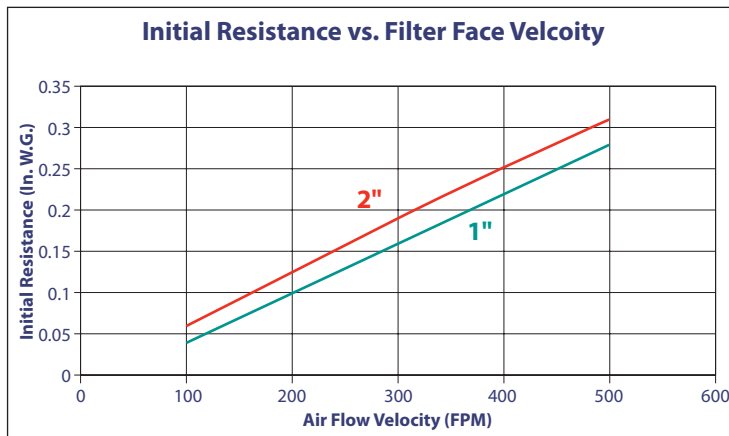
**Notched Frame Design**

- **Space saving notched frame**
- **Reduce warehouse space and shipping costs with innovative Monobond pinch frame notched design**
- **Improved aerodynamics reduce restriction to air flow**
- **Safe, easy, fast installation**
- **Larger effective filtering surface area**
- **Wide selection of standard sizes**
- **Classified Class 2 by Underwriters Laboratories, Inc.**

# Model P312

Industrial Strength, 1" & 2" Disposable Panel Filters, Synthetic Media

Category	P312 1"	P312 2"
Air Flow Velocity (FPM)	300	300
Initial Resistance (In. W.G.)	.16"	.19"
Recommended Final Resistance (In. W.G.)	.50"	1.00"
Average Arrestance (%)	82%	89%



\*Resistance climbs more rapidly on 1" thus reducing dust holding capacity and filter life. Testing conducted in accordance with the ASHRAE 52.1-1992 Test Standard. Classified Class 2 by Underwriters Laboratories, Inc.

Standard 1" and 2" Sizes					
1 Inch			2 Inch		
10x10	14x20	18x20	10x20	18x24	
10x20	14x24	18x24	12x24	20x20	
10x24	14x25	18x25	14x20	20x24	
12x12	14x30	20x20	14x25	20x25	
12x20	15x20	20x24	15x20	24x24	
12x24	16x16	20x25	16x16	25x25	
12x25	16x20	20x30	16x20		
12x30	16x24	24x24	16x24		
14x14	16x25	24x30	16x25		
	18x18	25x25			

P-P312-207



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# FACET-Aire 3 and 2F

## Space-saving Industrial Strength 1" and 2" Air Filters

**Facet-Aire 3**



**Facet 2F**



- Reduce warehouse space and shipping costs with innovative Monobond frame design
- Tri-directional scrim backing increases filter integrity
- Improved aerodynamics reduce restriction to air flow
- Safe, easy, fast installation
- Larger effective filtering surface area
- Class 2 listed by Underwriters Laboratories, Inc.

The FACET-Aire 3 (F312) and Facet 2F (2F) disposable panel filters are designed to withstand the demands of tough industrial and commercial applications. Purolator assures filter durability by utilizing construction features not found in traditional designs.



## Frame

Both the F312 and 2F frames are produced using 100% recycled post consumer materials. The unique Monobond concept involves a one-piece frame sealed to the media under heat and pressure. This construction feature produces a continuous bond of media to board around the periphery of the frame eliminating weak corners and air bypass. The use of a high tensile strength polyethylene binder increases the integrity of the seal, allowing the filter to withstand varying temperatures and humidity levels.



**Cut-away of the Facet Monobond frame construction feature - 2" size depicted here.**



**The space saving notched corner feature of a monobond frame**

When compared to traditional designs, the Monobond type filter's notched frame corners allow units to interlock providing up to 33% savings on warehouse space and freight costs.

For certain heavy duty applications, Facet also offers a 2" Box frame construction available in sixteen (16) standard sizes.

## Media

Both the F312 and 2F are manufactured with superior grade fiberglass media to guarantee full depth loading and high dust holding capacity.

A computer controlled manufacturing process assures a uniform gradient density pattern in the media.

To enhance filtration capability and prevent migration of finer particles, the filter media is evenly coated with a gelled adhesive.

Overall filter integrity is assisted by the addition of a Tri-Directional Scrim backing to the downstream side of the media. This scrim backing is laminated to the fiberglass and provides downstream support while promoting minimum fiber displacement at high velocities, and reducing restriction to air flow. The non-metal nature of the backing also eliminates sharp edges making for safe installation and easy disposal.

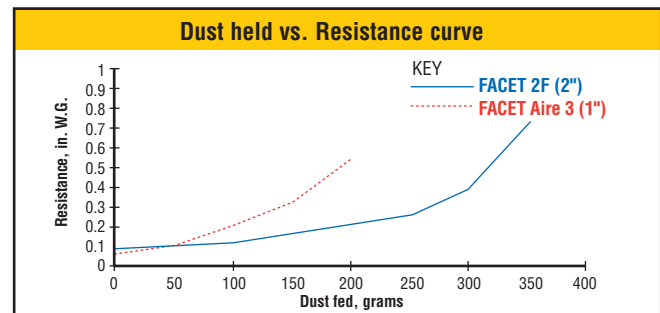
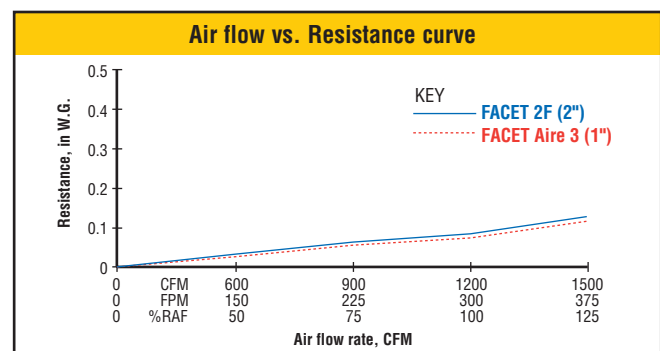
## Performance data

Category	F312 (1")	2F (2")
Air Velocity (FPM)	300	300
Initial Resistance (in. W.G.)	.07	.09
Final Resistance (in. W.G.)	.50	.50
Average Arrestance (%)	72	80
Dust Holding Capacity (gm/ft <sup>2</sup> )	55.9	74.0

## Resistance performance curves

Resistance climbs more rapidly on 1" thus reducing dust holding capacity and filter life.

Testing conducted in accordance with ASHRAE 52.1-1992 test standards. Approved and listed Class 2 by Underwriters Laboratories, Inc.



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FAX: 252/492-6157  
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Metuchen, New Jersey 08840  
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Member ASHRAE

PB1-1 (8/02)



# The Activator™ Series

*Ring Panels and Links - 2 Ply & 3 Ply*



**Links**



**2-Ply MERV-6**



**3-Ply MERV-7**

- Self-Sealing
- Eliminates Bypass
- Moisture Resistant
- Totally Unitized Assembly
- Fast, Easy Installation
- No Latches Required
- Compact Packaging

# The Activator™ Series

Ring Panels and Links - 2 Ply & 3 Ply

## General Product Information

The Activator Series panels and links consist of layers of multi-denier polyester media sealed around a heavy duty 9 gauge internal wire frame with integral cross wire support members.

## Bio-Pure® Antimicrobial Treated Panel

To inhibit microbial growth on the filters, 2-ply Bio-Pure panels are available treated with an EPA Registered antimicrobial agent.

Activator panels offer wide flexibility in meeting the needs of a variety of filtration applications, including:

- General ventilation
- Prefilters
- Stand alone, single stage filtration
- Built up frame banks
- Side access systems
- Rooftop air handlers
- Air supply for paint spray booths
- Economical upgrade from fiber glass or synthetic framed disposable panel filters

Select from 2-ply or 3-ply models to provide the right combination of filter construction, performance and budget to meet your needs.

## 2-Ply - MERV 6

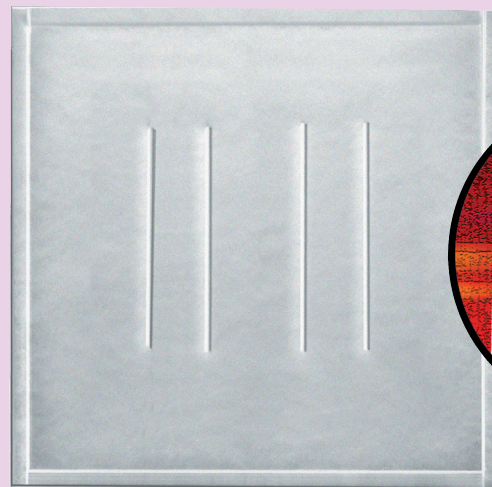
The 2-ply filter is a dual layer design with a multi-denier, blended fiber pad on the air entering side followed by a denser, needled media on the air leaving side that forms a final barrier to capture dirt particles. A dry tack adhesive applied on the air leaving side holds dirt and prevents particles from breaking loose. No particle migration down stream.

*Recommended for normal dirt loading applications.*

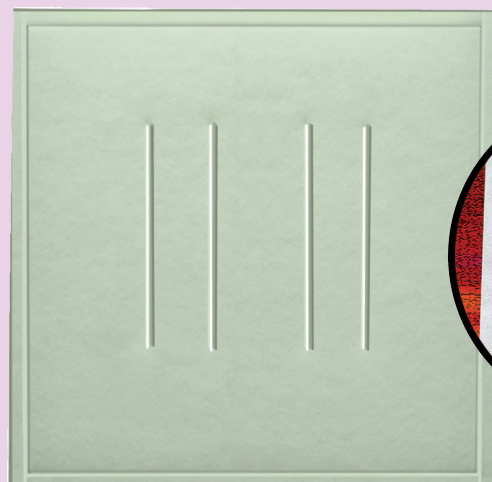
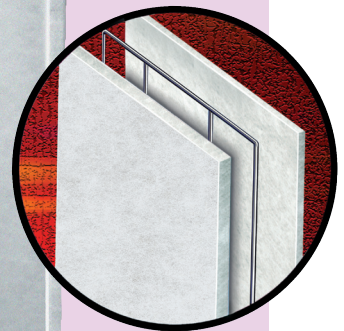
## 3-Ply - MERV 7

The upstream media is a stratified, dual layer pad made with two distinct layers of polyester fibers for greater depth loading. The down stream media pad is a denser, needled media that forms a final barrier to capture dirt particles. A dry tack adhesive applied on the air leaving side holds dirt and prevents particles from breaking loose. No particle migration down stream.

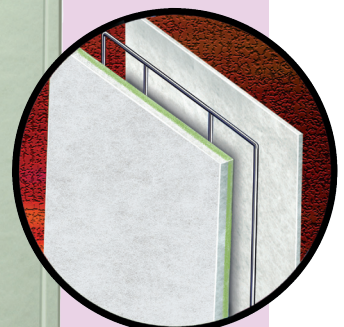
*Recommended for heavier dirt loading conditions or where higher efficiency particulate removal is desired.*



2-Ply



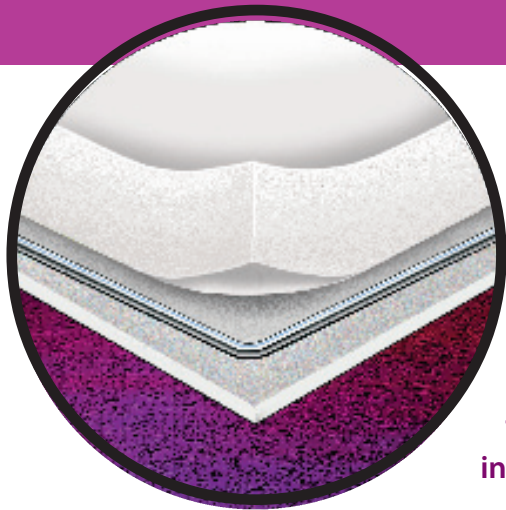
3-Ply





# Here's Why The Activator Panels Are Your Best Panel Filter Buy

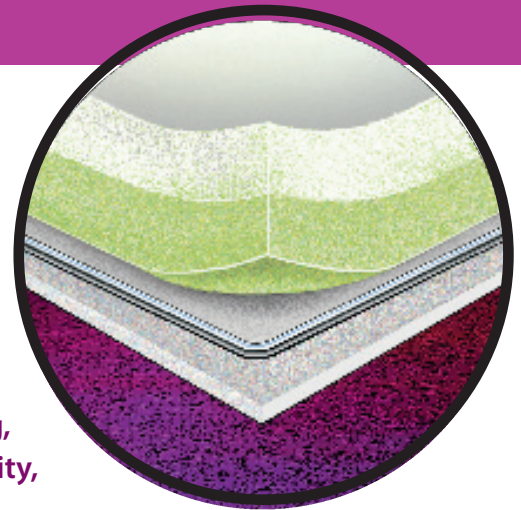
## Multi-Stage Media Construction



**2-Ply**



Layers of multi-denier polyester fibers capture dirt particles throughout the entire depth of the filter - prevents faceloading, increases dust holding capacity, and extends service life.



**3-Ply**

### Pressure Sensitive Tackifier

The air leaving side of the panel is applied with a tackified adhesive to retain collected particles. The adhesive maintains its tacky nature over the life of the filter - does not dry out or blow off the media.

### Fast, Easy Installation

Just push the filter into the frame. No clips, no latches, no leakage.

### Heavy Duty Internal Wire Frame

The layers of media are heat sealed around a heavy duty, 9 gauge internal wire frame. Cross wire supports welded to the frame provide additional structural strength and hold the media in place to prevent billowing or fluttering in operation.

### Full Media Utilization

Panel filters have no perimeter frame or supporting grids to obstruct air flow and block off media. The entire face of the filter is exposed to the air stream.

### Retains Collected Dirt Load

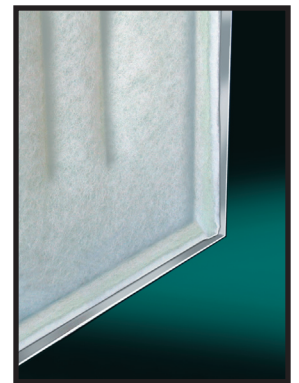
Layers of multi-denier fibers hold collected dirt particles throughout the depth of the media. Pressure sensitive tack on the air leaving side assures that the dirt load stays in the filter and does not blow down stream.

### Media Does Not Support Microbial Growth

The polyester media does not support microbial growth.

### Self-Sealing, Leak-Free -

A unique characteristic of panel filters. The layers of media are larger than the internal wire support frame creating a built in gasket when the filters are installed. They are automatically sealed in the frame or side access track without the use of clips or latches. No dirty air bypass.



### Tough, Durable Polyester Media

The inherent strength of polyester fibers combined with the internal frame construction make Activator panels unusually strong. They withstand rough handling and difficult operating conditions without damage or loss of performance.

### Moisture Resistant

100% polyester fiber media is completely resistant to moisture. This makes panel filters ideally suited for rooftop installations or other locations where they can be exposed to moisture.

### Compact Packaging

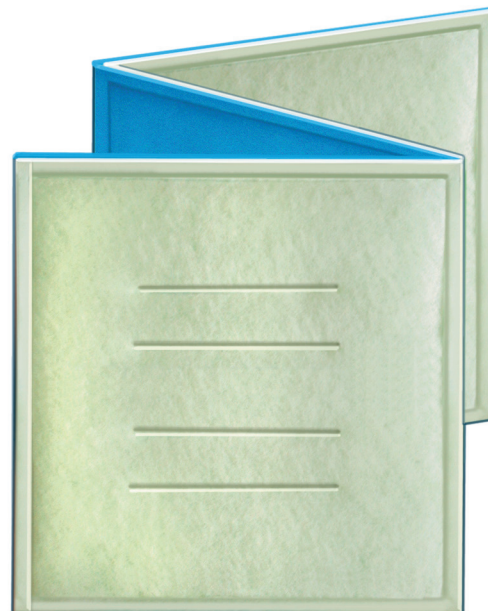
Internal frame construction with no perimeter frame creates a low profile design that permits packaging in a compact, space saving carton. Save on shipping, handling and storage, plus easy transportation to the air handler.

# The Activator™ Series

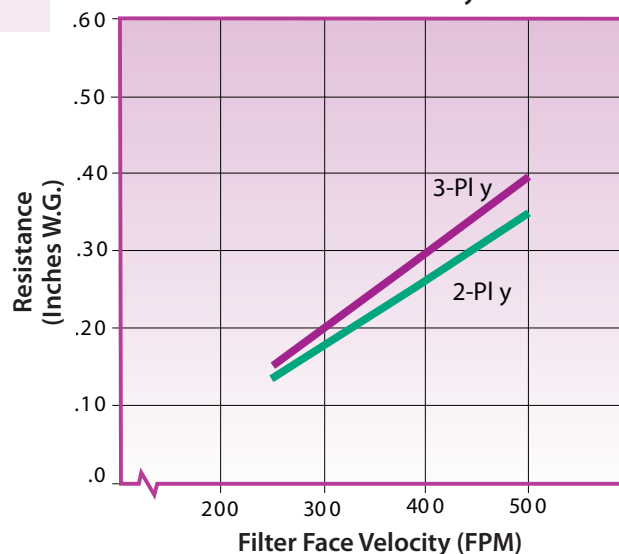
Ring Panels and Links - 2 Ply & 3 Ply

Nominal Size (In.)	Actual Size of Internal Frame (In.)	Rated Air Flow Capacity (CFM)	
		300 FPM	500 FPM
10 x 20	9½ x 19½	425	700
12 x 24	11¾ x 23¾	600	1000
15 x 20	14½ x 19½	630	1050
16 x 20	15½ x 19½	670	1120
16 x 24	15¾ x 23¾	800	1340
16 x 25	15½ x 24½	840	1400
18 x 24	17¾ x 23¾	900	1500
20 x 20	19½ x 19½	840	1400
20 x 24	19¾ x 23¾	1000	1670
20 x 25	19½ x 24½	1050	1750
24 x 24	23¾ x 23¾	1200	2000
25 x 25	24½ x 24½	1310	2170

All 2-ply and 3-ply models are available as link panel filters



Initial Resistance vs Filter Face Velocity



1. All performance data is based on the ASHRAE 52.2-2007 Test Standard, at a test velocity of 295 FPM for a 24x24 nominal size filter.

2. Width and height dimensions are interchangeable. Activator panels can be installed with the cross wires in the vertical or horizontal position.

**Continuous Operating Temperature Limit:** 220°F (104°C)

**Underwriters Laboratories Classification:** Activator panels are classified U.L. Class 2 per U.L. Standard 900.

	2-Ply	3-Ply
MERV Performance _____	6	7
Initial Resistance		
@300 FPM _____	.17"	.20"
@500 FPM _____	.35"	.39"
Recommended Final Resistance _____	1.0" W.G.	1.0" W.G.

ATI-ACT-0513



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