



 **BHA**®

# **BHA<sup>®</sup> Cartridge and Pleated Filters for Dust Collection**



ENGINEERING YOUR SUCCESS.

# Discover the Difference in Performance and the Value of Our BHA Cartridge and Pleated Filters

It all starts with fabric.

We can deliver almost any type of cartridge or pleated filter, regardless of OEM design and system conditions. Below find our most popular styles, fabrics and finishes, and the conditions they are most suited to handle.

Fabrics	Polypropylene	Polyester	PPS	Aramid	Cellulose/Polyester Blend	BHA® Wicked™ High Temp
<b>Maximum Continuous Operating Temperature</b>	170° F (77° C)	275° F (135° C)	375° F (190° C)	400° F (204° C)	200° F (93° C)	500° F (260° C)
<b>Abrasion</b>	Excellent	Excellent	Good	Excellent	Good	Excellent
<b>Energy Absorption</b>	Good	Excellent	Good	Good	Good	Good
<b>Filtration Properties</b>	Good	Excellent	Excellent	Excellent	Good	Excellent
<b>Moist Heat</b>	Excellent	Poor	Good	Good	Fair	Good
<b>Alkalines</b>	Excellent	Fair	Excellent	Good	Poor	Excellent
<b>Mineral Acids</b>	Excellent	Fair	Excellent	Fair	Poor	Good
<b>Oxygen (15%+)</b>	Excellent	Excellent	Poor	Excellent	Excellent	Good

Finishes	Finish Purpose	Available For
<b>BHA Protura® Nanofiber</b>	For the capture of fine particulate, improved filtration efficiency, cake release, and airflow capacity	Cellulose/polyester blend and polyester
<b>BHA Preveil® ePTFE Membrane</b>	For the capture of fine particulate, improved filtration efficiency, cake release, and airflow capacity	Polyester, Aramid, Acrylic, Polypropylene, and PPS. Standard finish for BHA Wicked™ High Temp Filters
<b>Flame Retardant</b>	Media is self-extinguishing (not fireproof)	Cellulose/polyester blend and polyester (aramid is self-extinguishing without treatment)
<b>Oleophobic</b>	An oil and water repellent finish is used when aerosol oils or water are present	Polyester
<b>Anti-Static</b>	Used where conveyed dusts generate static charges that require dissipation	Polyester

The information above is provided as a general guideline. Varying sets of conditions may affect performance. Other specialty finishes may be available. \*Trademarks are the property of their respective owners

## BHA Protura® Independently Proven

Cleaner air, lower pressure drop, and greater energy savings

### Surface Loading Is Key

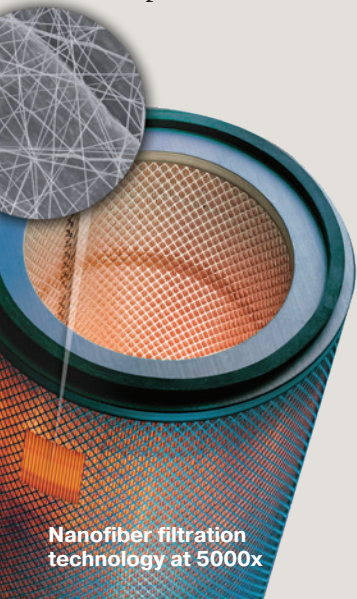
BHA Protura filters feature a special surface nanofiber layer made from synthetic polymers so extremely fine, they are measured in fractions of a micron (nanometers). This ultra-thin layer traps dust and fume particulate on the surface of the filter before it can embed deeper in the media—leading to better cleaning efficiency with fewer pulses and significantly less compressed air use.

- **MERV 15 filtration efficiency** ensures capture of submicron particles and reduction of dust collector emissions for cleaner and safer workplace air
- **Lower energy costs with reduction** in compressed air from fewer pulses and lower pressure drop
- **Nanofiber technology** means superior surface loading to enhance dust cake release and longer filter life

Our Protura filters have an exceptionally high level of filtration efficiency in capturing sub-micron particles from a contaminated air stream. With nanofibers smaller than competitive fibers and an industry leading MERV 15 rating, and true surface filtration, you get 99%+ efficiency on 0.3-0.4 micron particulate.\*

The Protura filters nanofiber layer does not restrict air flow and it achieves MERV 15 efficiency with low pressure drop.

\*In operation, at about 1" DP



Nanofiber filtration technology at 5000x

## BHA® Preveil® ePTFE Membrane, What Is It?

BHA Preveil membrane is a microporous ePTFE (expanded polytetrafluoroethylene) membrane that is bonded to the surface of synthetic non-woven fabrics and pleatable felts, to provide one of the highest efficiencies of any available filter media. Plus, BHA Preveil ePTFE membrane can withstand temperatures up to 500°F (260°C).

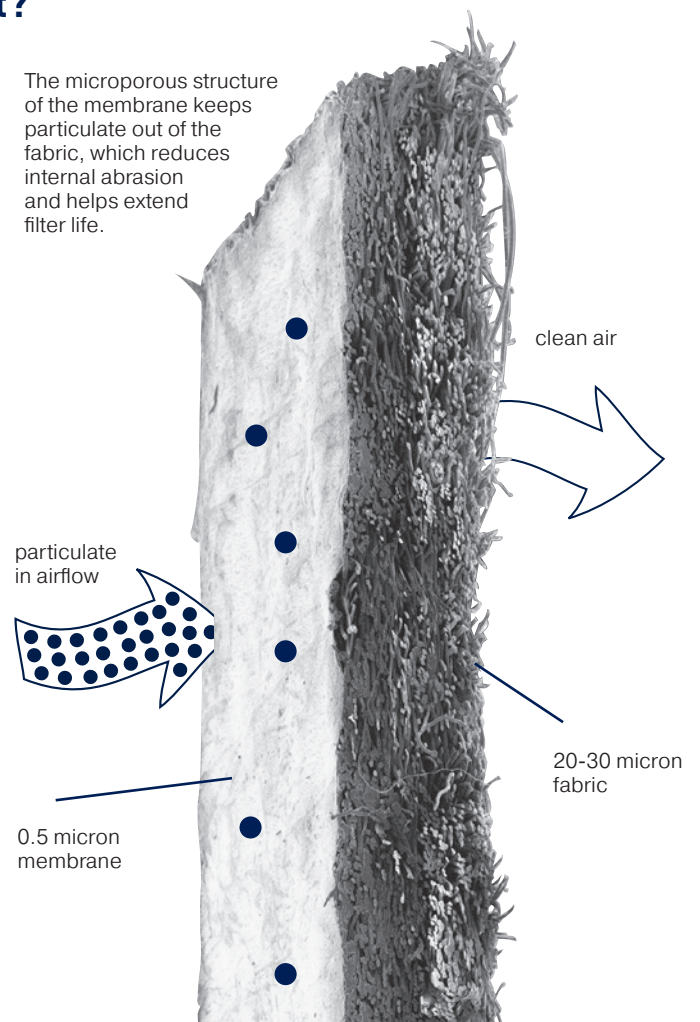
Preveil delivers:

- 99.99% efficiency
- Higher airflow
- Better cleaning
- Optimum emissions control

The microporous structure of a Preveil ePTFE membrane collects particles on the surface of the filter media. This fine filtration method virtually eliminates emissions that take place at startup and following the cleaning cycle. The result: greater ventilation, reduced internal abrasion, and less emissions than a standard filter.

Preveil ePTFE laminated filters resist sticky dust easily shedding particulate. Without the membrane particulate mixes with moisture and becomes embedded in the fabric, it forms a dense, non-permeable dustcake, this agglomeration restricts airflow which increases differential pressure and decreases production.

The microporous structure of the membrane keeps particulate out of the fabric, which reduces internal abrasion and helps extend filter life.



## BHA Cartridge Filters Stocked with Performance and Value

Keep your dust collectors running efficiently and energy smart with high-quality, BHA cartridge filters.

### Cylindrical Cartridges

Our cylindrical cartridge filters rank among the highest in performance, efficiency and value. We stock a wide range of cylindrical filters for use in nearly all major brands of dust collection systems and industry applications. They are available in an assortment of media, including our proprietary BHA Protura and Preveil fabrics.

### Oval Cartridges

Our replacement oval cartridge filters provide superior filtration with our advanced proprietary BHA Protura nanofiber filtration technology. Protura is scientifically proven to achieve higher efficiency, cleaner air, lower pressure drop, longer filter life and greater energy savings than any other media used in cartridge filters.

### Custom Cartridges

Should you require a custom filter to meet a special application or as an aftermarket filter for another brand, we can design and manufacture the right filter to meet your specified requirements. Our specialists will help you select the best media and filter configuration to fit your unique application.

### OEM Dust Collector Cartridge Filters

We make cartridge filters for many of the OEM's: Donaldson, AAF, Airflow Systems, Camfil Farr, APC, FlexKleen, ITW/Gema, Nordson, Micro Air, Pnuemafil, UniWash/Polaris, Robovent, Sly, Steelcraft, Wheelabrator and more.\*

\*Trademarks are the property of their respective owners.

**NOW AVAILABLE** in Protura SB, this advanced nanofiber filtration technology is a 100% synthetic base media with a proprietary nanofiber layer applied to the collection surface that's ready to take on the most demanding applications.



# BHA Pleated Filters Provide Maximum Benefits Through Increased Production and Reduced Operational Costs

With today's demands of increased production and tighter emission controls, dust collectors can be pushed beyond their design limits. If they fail to keep up, production and profitability suffer.

## BHA family of pleated filters that offer proven performance and durability

- BHA PulsePleat® filters maximum operating temperatures of 180°F (82°C), 225°F (107°C), and 265°F (130°C)
- BHA ThermoPleat® filters maximum operating temperatures of 375°F (191° C)
- BHA Wicked™ High Temp filters maximum operating temperatures of 500° F (260° C)

- Provide superior filtration efficiency
- Promote better airflow for increased throughput
- Reduce air-to-cloth ratios
- Reduce operating differential pressure
- Reduce compressed air consumption
- Eliminate the need for cages
- Are easily installed and removed
- Top and bottom load options
- Double the filtration area increases capacity
- Shorter filters reduce abrasion

## BHA High Temperature Pleated Filter Elements


- Patented, high-density media stiffened by non-resin, state-of-the-art thermal bonding technology
- Higher temperature option with Fiberglass Felt with BHA® Preveil® ePTFE membrane
- High temperature synthetic woven straps with rivets
- Wicked High Temp potting compound

Installation typically requires no modification to existing equipment. You can enjoy improved performance and energy savings without the expense of costly modifications, plus installation is much quicker and easier than traditional filter elements.


## OEM Dust Collector Pleated Filters

We make pleated filters for many of the OEM's: Donaldson Torit RF, Flex Kleen, MikroPul, United Conveyor, Wheelabrator, Dantherm and others.\*

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Molded polyurethane top is available in a variety of styles and sizes to fit a wide range of tubesheet holes. Other materials or designs are available for higher temperatures and unique applications.




One-piece design eliminates the need for filter bags and cages, significantly reducing installation time.

Spunbond polyester media provides 99.99+% filtering efficiency.

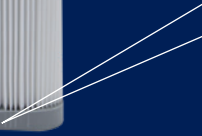
Pleat depth and spacing are customized for specific applications to allow for improved dustcake release. The pleated design increases filtration surface area up to 3-4 times.



iPLAS is available only with BHA pleated filter elements.



iPLAS "formed-in-place" design anchors pleat tips firmly, keeping them evenly spaced and straight pleats aligned while element is in operation.



Molded bottom helps resist abrasive wear at the bottom of the elements.



# BHA TotalPleat™ Delivers Long Filter Life

Replacement for Donaldson PowerCore® CP filter pack.

The Parker Hannifin BHA TotalPleat™ aftermarket replacement filter is a cost-effective alternative replacing the Donaldson PowerCore® CP filter pack, part numbers **P032358-016-340** and **P280356-016-340**.

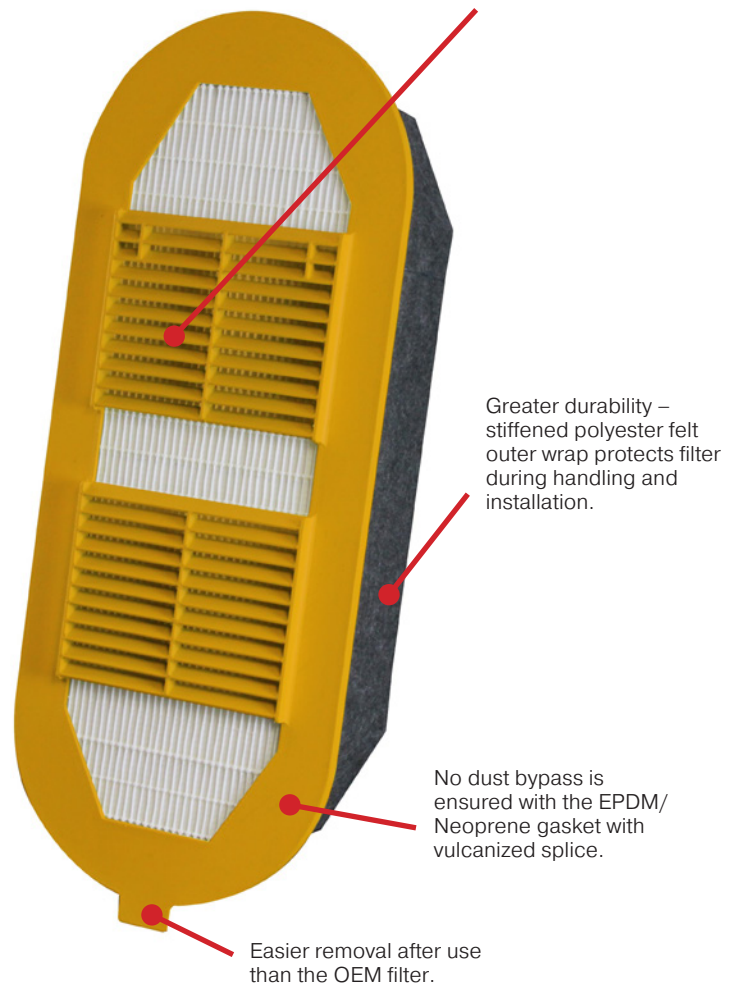
Parker Hannifin's proprietary MERV 15 TotalPleat™ filter provides significant advantages over the PowerCore® design; specifically, customers report longer filter life.

- Low pressure drop, energy savings, and long filter life. Although initial performance is comparable to PowerCore® filter packs, after 30 to 60 days, BHA TotalPleat™ demonstrates minimal pressure drop and less frequent pulse cleaning translating to reduced compressed air usage.
- Full dust ejection during pulse cleaning. The deep-pleat design of the BHA TotalPleat™ filter has larger airflow passages with 92% of the filter face open to flow, allowing for full dust ejection during cleaning.
- Even distribution of cleaning pulse. The proprietary inclined, louvered grid above the TotalPleat™ filter face allows for an even distribution of the pulse across the entire filter area.
- Maximum durability. A stiffened polyester felt outer wrap resists damage during handling and installation.
- Easy removal. TotalPleat™ is rigidly glued together to prevent expansion or distortion with use, allowing faster, easier removal compared with the OEM filter.
- Completely incinerable after use. Constructed with no metal components.

## Key Benefits TotalPleat vs. PowerCore

- **Longer filter life and reduced compressed air usage.** Although initial performance is comparable to PowerCore® filter packs, after 30 to 60 days, BHA® TotalPleat™ demonstrates minimal pressure drop and less frequent pulse cleaning.
- **Full dust ejection during pulse cleaning.** The deep-pleat design of the BHA® TotalPleat™ filter has larger airflow passages with 92% of the filter face open to flow, allowing for full dust ejection during cleaning.
- **Even distribution of cleaning pulse.** The proprietary inclined, louvered grid above the TotalPleat™ filter face allows for even distribution of the pulse across the entire filter area.
- **Maximum durability.** A stiffened polyester felt outer wrap resists damage during handling and installation.
- **Easy removal.** TotalPleat™ is rigidly glued together to prevent expansion or distortion with use, allowing faster, easier removal compared with the OEM filter.
- **Total incineration after use.** Constructed with no metal components, TotalPleat™ is made to be completely incinerated.

Effective, even distribution of cleaning pulse across the entire filter area driven by the rigid injection-molded plastic flange with unique, inclined louvers.



# Your Complete Resource

## Baghouse Filters

Dust Cartridge Filters

BHA TotalPleat™

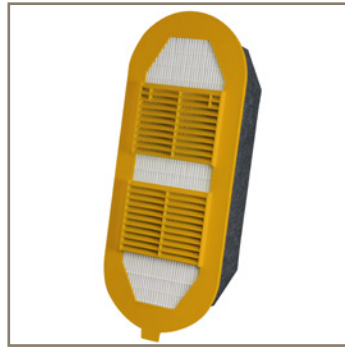
BHA PulsePleat® Pleated Filter Elements

BHA ThermoPleat® Pleated Filter Elements

BHA Wicked™ High Temp Pleated Filters

Filter Bags and Cages

BHA STS® SpiroTube Filter System



## Filter Media

Polypropylene

Acrylic

Polyester

PPS

Aramid

P84™

Fiberglass

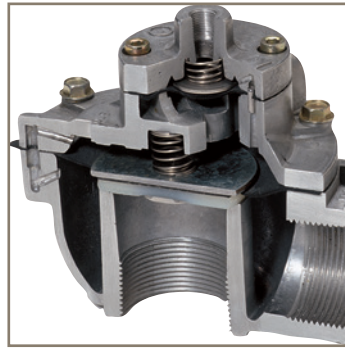
Fiberglass felt with Preveil ePTFE membrane

PTFE Felt

Cellulose/Polyester Blend

Nanofiber Technology

Expanded PTFE Membrane (ePTFE)



## Baghouse Accessories

Access Doors

AC Tensioning Tool

Bag Cups/Venturis/Thimbles/Clamps

Diaphragm/Solenoid Valves/Valve Repair Kits

Differential Pressure Monitors and

Magnehelic/Photohelic Gauges

Door Seal

Gauge Line Cleaners - Surge Valve

BHA Neutralite® Conditioning Agent

Tensioning Assemblies

Tubesheets/Blowpipes

Vacutrans Vacuum Cleaning Systems

BHA Visolite® Leak Detection System



## Services

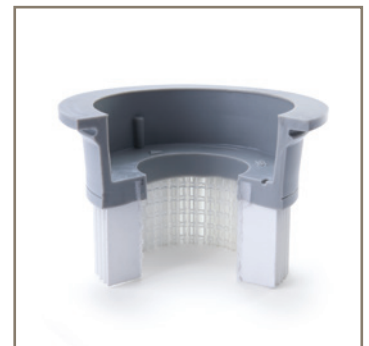
Outages

System Inspection Programs

Bag Installs and Refurbishments

Start-up Services

Conversions and Rebuilds



## Education

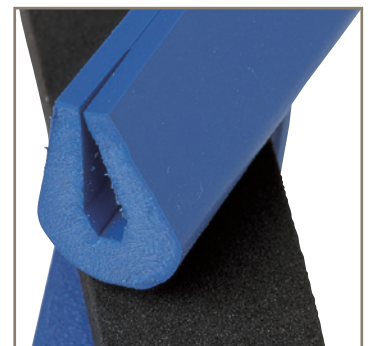
Fabric Filter Dust Collection Webinar Series

In-person and On-site Baghouse Maintenance and

Troubleshooting Seminars

## Acoustic Cleaners and Replacement Parts

Contact us at 800-821-2222 to discuss the filter solution best suited to your application.



**PARKER-HANNIFIN CORPORATION  
OFFER OF SALE**

**1. Definitions.** As used herein, the following terms have the meanings indicated.

Buyer: means any customer receiving a Quote for Products.  
Goods: means any tangible part, system or component to be supplied by Seller.  
Products: means the Goods, Services and/or Software as described in a Quote.  
Quote: means the offer or proposal made by Seller to Buyer for the supply of Products.  
Seller: means Parker-Hannifin Corporation, including all divisions and businesses thereof.  
Services: means any services to be provided by Seller.  
Software: means any software related to the Goods, whether embedded or separately downloaded.  
Terms: means the terms and conditions of this Offer of Sale.

**2. Terms.** All sales of Products by Seller are expressly conditioned upon, and will be governed by the acceptance of, these Terms. These Terms are incorporated into any Quote provided by Seller to Buyer. Buyer's order for any Products whether communicated to Seller verbally, in writing, by electronic data interface or other electronic commerce, shall constitute acceptance of these Terms. Seller objects to any contrary or additional terms or conditions of Buyer. Reference in Seller's order acknowledgement to Buyer's purchase order or purchase order number shall in no way constitute an acceptance of any of Buyer's terms or conditions of purchase. No modification to these Terms will be binding on Seller unless agreed to in writing and signed by an authorized representative of Seller.

**3. Price; Payment.** The Products set forth in the Quote are offered for sale at the prices indicated in the Quote. Unless otherwise specifically stated in the Quote, prices are valid for thirty (30) days and do not include any sales, use, or other taxes or duties. Seller reserves the right to modify prices at any time to adjust for any raw material price fluctuations. Unless otherwise specified by Seller, all prices are F.C.A. Seller's facility (INCOTERMS 2020). All sales are contingent upon credit approval and full payment for all purchases is due thirty (30) days from the date of invoice (or such date as may be specified in the Quote). Unpaid invoices beyond the specified payment date incur interest at the rate of 1.5% per month or the maximum allowable rate under applicable law.

**4. Shipment; Delivery; Title and Risk of Loss.** All delivery dates are approximate, and Seller is not responsible for damages resulting from any delay. Regardless of the manner of shipment, delivery occurs and title and risk of loss or damage pass to Buyer, upon placement of the Products with the carrier at Seller's facility. Unless otherwise agreed prior to shipment and for domestic delivery locations only, Seller will select and arrange, at Buyer's sole expense, the carrier and means of delivery. When Seller selects and arranges the carrier and means of delivery, freight and insurance costs for shipment to the designated delivery location will be prepaid by Seller and added as a separate line item to the invoice. Buyer shall be responsible for any additional shipping charges incurred by Seller due to Buyer's acts or omissions. Buyer shall not return or repackage any Products without the prior written authorization from Seller, and any return shall be at the sole cost and expense of Buyer.

**5. Warranty.** The warranty for the Products is as follows: (i) Goods are warranted against defects in material or workmanship for a period of twelve (12) months from the date of delivery or 2,000 hours of use, whichever occurs first; (ii) Services shall be performed in accordance with generally accepted practices and using the degree of care and skill that is ordinarily exercised and customary in the field to which the Services pertain and are warranted for a period of six (6) months from the date of completion of the Services; and (iii) Software is only warranted to perform in accordance with applicable specifications provided by Seller to Buyer for ninety (90) days from the date of delivery or, when downloaded by a Buyer or end-user, from the date of the initial download. All prices are based upon the exclusive limited warranty stated above, and upon the following disclaimer: **EXEMPTION CLAUSE; Disclaimer of Warranty, CONDITIONS, REPRESENTATIONS: This warranty IS the sole and entire warranty, CONDITION, AND REPRESENTATION, pertaining to products. SELLER DISCLAIMS ALL OTHER WARRANTIES, CONDITIONS, AND REPRESENTATIONS, WHETHER STATUTORY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THOSE RELATING TO DESIGN, NONINFRINGEMENT, MERCHANTABILITY, AND FITNESS FOR A PARTICULAR PURPOSE. SELLER DOES NOT WARRANT THAT THE SOFTWARE IS ERROR-FREE OR FAULT-TOLERANT, OR THAT BUYER'S USE THEREOF WILL BE SECURE OR UNINTERRUPTED. UNLESS OTHERWISE AUTHORIZED IN WRITING BY SELLER, THE SOFTWARE SHALL NOT BE USED IN CONNECTION WITH HAZARDOUS OR HIGH RISK ACTIVITIES OR ENVIRONMENTS. EXCEPT AS EXPRESSLY STATED HEREIN, ALL PRODUCTS ARE PROVIDED "AS IS".**



**6. Claims; Commencement of Actions.** Buyer shall promptly inspect all Products upon receipt. No claims for shortages will be allowed unless reported to Seller within ten (10) days of delivery. Buyer shall notify Seller of any alleged breach of warranty within thirty (30) days after the date the non-conformance is or should have been discovered by Buyer. Any claim or action against Seller based upon breach of contract or any other theory, including tort, negligence, or otherwise must be commenced within twelve (12) months from the date of the alleged breach or other alleged event, without regard to the date of discovery.

**7. LIMITATION OF LIABILITY. IN THE EVENT OF A BREACH OF WARRANTY, SELLER WILL, AT ITS OPTION, REPAIR OR REPLACE THE NON-CONFORMING PRODUCT, RE-PERFORM THE SERVICES, OR REFUND THE PURCHASE PRICE PAID WITHIN A REASONABLE PERIOD OF TIME. IN NO EVENT IS SELLER LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING ANY LOSS OF REVENUE OR PROFITS, WHETHER BASED IN CONTRACT, TORT OR OTHER LEGAL THEORY. IN NO EVENT SHALL SELLER'S LIABILITY UNDER ANY CLAIM MADE BY BUYER EXCEED THE PURCHASE PRICE PAID FOR THE PRODUCTS.**

**8. Confidential Information.** Buyer acknowledges and agrees that any technical, commercial, or other confidential information of Seller, including, without limitation, pricing, technical drawings or prints and/or part lists, which has been or will be disclosed, delivered or made available, whether directly or indirectly, to Buyer ("Confidential Information"), has been and will be received in confidence and will remain the property of Seller. Buyer further agrees that it will not use Seller's Confidential Information for any purpose other than for the benefit of Seller.

**9. Loss to Buyer's Property.** Any tools, patterns, materials, equipment or information furnished by Buyer or which are or become Buyer's property ("Buyer's Property"), will be considered obsolete and may be destroyed by Seller after two (2) consecutive years have elapsed without Buyer ordering the Products manufactured using Buyer's Property. Furthermore, Seller shall not be responsible for any loss or damage to Buyer's Property while it is in Seller's possession or control.

**10. Special Tooling.** "Special Tooling" includes but is not limited to tools, jigs, fixtures and associated manufacturing equipment acquired or necessary to manufacture Goods. Seller may impose a tooling charge for any Special Tooling. Such Special Tooling shall be and remain Seller's property notwithstanding payment of any charges by Buyer. In no event will Buyer acquire any interest in the Special Tooling, even if such Special Tooling has been specially converted or adapted for manufacture of Goods for Buyer and notwithstanding any charges paid by Buyer. Unless otherwise agreed, Seller has the right to alter, discard or otherwise dispose of any Special Tooling or other property owned by Seller in its sole discretion at any time.

**11. Security Interest.** To secure payment of all sums due from Buyer, Seller retains a security interest in all Products delivered to Buyer and, Buyer's acceptance of these Terms is deemed to be a Security Agreement under the Uniform Commercial Code. Buyer authorizes Seller as its attorney to execute and file on Buyer's behalf all documents Seller deems necessary to perfect Seller's security interest.

**12. User Responsibility. Buyer,** through its own analysis and testing, is solely responsible for making the final selection of the Products and assuring that all performance, endurance, maintenance, safety and warning requirements of the application of the Products are met. Buyer must analyze all aspects of the application and follow applicable industry standards, specifications, and any technical information provided with the Quote or the Products, such as Seller's instructions, guides and specifications. If Seller provides options of or for Products based upon data or specifications provided by Buyer, Buyer is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the Products. In the event Buyer is not the end-user of the Products, Buyer will ensure such end-user complies with this paragraph.

**13. Use of Products, Indemnity by Buyer.** Buyer shall comply with all instructions, guides and specifications provided by Seller with the Quote or the Products. **Unauthorized Uses.** If Buyer uses or resells the Products in any way prohibited by Seller's instructions, guides or specifications, or Buyer otherwise fails to comply with Seller's instructions, guides and specifications, Buyer acknowledges that any such use, resale, or non-compliance is at Buyer's sole risk. Further, Buyer shall indemnify, defend, and hold Seller harmless from any losses, claims, liabilities, damages, lawsuits, judgments and costs (including attorney fees and defense costs), whether for personal injury, property damage, intellectual property infringement or any other claim, arising out of or in connection with: (a) improper selection, design, specification, application, or any misuse of Products; (b) any act or omission, negligent or otherwise, of Buyer; (c) Seller's use of patterns, tools, equipment, plans, drawings, designs, specifications or other information or things furnished by Buyer; (d) damage to the Products from an external cause, repair or attempted repair by anyone other than Seller, failure to follow instructions, guides and specifications provided by Seller, use with goods not provided by Seller, or opening, modifying, deconstructing, tampering with or repackaging the Products; or (e) Buyer's failure to comply with these Terms. Seller shall not indemnify Buyer under any circumstance except as otherwise provided in these Terms.

**14. Cancellations and Changes.** Buyer may not cancel or modify, including but not limited to movement of delivery dates for the Products, any order for any reason except with Seller's written consent and upon terms that will indemnify, defend and hold Seller harmless against all direct, incidental and consequential loss or damage and any additional expense. Seller, at any time, may change features, specifications, designs and availability of Products.

**15. Limitation on Assignment.** Buyer may not assign its rights or obligations without the prior written consent of Seller.

**16. Force Majeure.** Seller is not liable for delay or failure to perform any of its obligations by reason of events or circumstances beyond its reasonable control. Such circumstances include without limitation: accidents, labor disputes or stoppages, government acts or orders, acts of nature, pandemics, epidemics, other widespread illness, or public health emergency, delays or failures in delivery from carriers or suppliers, shortages of materials, war (whether declared or not) or the serious threat of same, riots, rebellions, acts of terrorism, fire or any reason whether similar to the foregoing or otherwise. Seller will resume performance as soon as practicable after the event of force majeure has been removed. All delivery dates affected by force majeure shall be tolled for the duration of such force majeure and rescheduled for mutually agreed dates as soon as practicable after the force majeure condition ceases to exist. Force majeure shall not include financial distress, insolvency, bankruptcy, or other similar conditions affecting one of the parties, affiliates and/or sub-contractors.

**17. Waiver and Severability.** Failure to enforce any provision of these Terms will not invalidate that provision; nor will any such failure prejudice either party's right to enforce that provision in the future. Invalidity of any provision of these Terms shall not invalidate any other provision herein and, the remaining provisions will remain in full force and effect.

**18. Termination.** Seller may terminate any agreement governed by or arising from these Terms for any reason and at any time by giving Buyer thirty (30) days prior written notice. Seller may immediately terminate, in writing, if Buyer: (a) breaches any provision of these Terms, (b) becomes or is deemed insolvent, (c) appoints or has appointed a trustee, receiver or custodian for all or any part of Buyer's property, (d) files a petition for relief in bankruptcy on its own behalf, or one is filed against Buyer by a third party, (e) makes an assignment for the benefit of creditors; or (f) dissolves its business or liquidates all or a majority of its assets.

**19. Ownership of Software.** Seller retains ownership of all Software supplied to Buyer hereunder. In no event shall Buyer obtain any greater right in and to the Software than a right in the nature of a license limited to the use thereof and subject to compliance with any other terms provided with the Software.

**20. Indemnity for Infringement of Intellectual Property Rights.** Seller is not liable for infringement of any patents, trademarks, copyrights, trade dress, trade secrets or similar rights ("Intellectual Property Rights") except as provided in this Section. Seller will defend at its expense and will pay the cost of any settlement or damages awarded in an action brought against Buyer based on a third party claim that one or more of the Products sold hereunder infringes the Intellectual Property Rights of a third party in the country of delivery of the Products by Seller to Buyer. Seller's obligation to defend and indemnify Buyer is contingent on Buyer notifying Seller within ten (10) days after Buyer becomes aware of any such claim, and Seller having sole control over the defense of the claim including all negotiations for settlement or compromise. If one or more Products sold hereunder is subject to such a claim, Seller may, at its sole expense and option, procure for Buyer the right to continue using the Products, replace or modify the Products so as to render them non-infringing, or offer to accept return of the Products and refund the purchase price less a reasonable allowance for depreciation. Seller has no obligation or liability for any claim of infringement: (i) arising from information provided by Buyer; or (ii) directed to any Products provided hereunder for which the designs are specified in whole or part by Buyer; or (iii) resulting from the modification, combination or use in a system of any Products provided hereunder. The foregoing provisions of this Section constitute Seller's sole and 23. Compliance with Laws. Buyer agrees to comply with all applicable laws, regulations, and industry and professional standards, including those of the United States of America, and the country or countries in which Buyer may operate, including without limitation the U.S. Foreign Corrupt Practices Act ("FCPA"), the U.S. Anti-Kickback Act ("Anti-Kickback Act"), U.S. and E.U. export control and sanctions laws ("Export Laws"), the U.S. Food Drug and Cosmetic Act ("FDCA"), and the rules and regulations promulgated by the U.S. Food and Drug Administration ("FDA"), each as currently amended. Buyer agrees to indemnify, defend, and hold harmless Seller from the consequences of any violation of such laws, regulations and standards by Buyer, its employees or agents. Buyer acknowledges that it is familiar with all applicable provisions of the FCPA, the Anti-Kickback Act, Export Laws, the FDCA and the FDA and certifies that Buyer will adhere to the requirements thereof and not take any action that would make Seller violate such requirements. Buyer represents and agrees that Buyer will not make any payment or give anything of value, directly or indirectly, to any governmental official, foreign political party or official thereof, candidate for foreign political office, or commercial entity or person, for any improper purpose, including the purpose of influencing such person to purchase Products or otherwise benefit the business of Seller. Buyer further represents and agrees that it will not receive, use, service, transfer or ship any Products from Seller in a manner or for a purpose that violates Export Laws or would cause Seller to be in violation of Export Laws. Buyer agrees to promptly and reliably provide Seller all requested information or documents, including end-user statements and other written assurances, concerning Buyer's ongoing compliance with Export Laws exclusive liability and Buyer's sole and exclusive remedy for claims of infringement of Intellectual Property Rights.

**21. Governing Law.** These Terms and the sale and delivery of all Products are deemed to have taken place in, and shall be governed and construed in accordance with, the laws of the State of Ohio, as applicable to contracts executed and wholly performed therein and without regard to conflicts of laws principles. Buyer irrevocably agrees and consents to the exclusive jurisdiction and venue of the courts of Cuyahoga County, Ohio with respect to any dispute, controversy or claim arising out of or relating to the sale and delivery of the Products.

**22. Entire Agreement.** These Terms, along with the terms set forth in the main body of any Quote, forms the entire agreement between the Buyer and Seller and constitutes the final, complete and exclusive expression of the terms of sale and purchase. In the event of a conflict between any term set forth in the main body of a Quote and these Terms, the terms set forth in the main body of the Quote shall prevail. All prior or contemporaneous written or oral agreements or negotiations with respect to the subject matter shall have no effect. These Terms may not be modified unless in writing and signed by an authorized representative of Seller.

## The Difference:

Industry leading filter designs combined with world-class customer service.

Dust. Mist. Fumes. No matter the application, from power gen to pigment. Parker Hannifin is the strongest global filtration company in the market delivering the most comprehensive selection of products and solutions to best optimize air stream and plant operations for our customers.

Innovative design. Top-quality manufacturing. And the most responsive customer service in the business. All of it focused on delivering the best quality products for your applications, with the follow up service you need, anytime, anywhere.

### The Difference

- Innovative industry solutions for your toughest filtration challenges
- Proprietary filter media technologies and advanced research capabilities to ensure the latest developments are in our newest filters
- Quality cartridge and pleated filters utilizing state of the art production processes
- 24 X 7 customer service that is unmatched anywhere in the industry

## Applications

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Cement and Rock Dust  
Bentonite Crushing  
Clay Grinding  
Clinker Cooler  
Coal Mill  
Crushing/Grinder  
High-Efficiency Separator  
Kaolin Processing  
Material Handling/Transport  
Packing Machines  
Raw Mill/Finish Mill

Chemical  
Calcium Hypochlorite  
Catalyst Manufacturing  
Cellulose Fibers  
Coke-Briquetting Process  
Fertilizer Spray Dryers  
Packaging  
Plastic Fibers  
Polyethylene Resins  
Polystyrene Fluff  
PVC  
Tire/Specialty Rubbers

Combustion  
Boiler  
Coal Handling  
Fly Ash Handling  
  
Food/Pharmaceutical  
Animal Vitamins  
Cereal Drying  
Flour Milling  
Food Additive Processing  
Grain  
Mixing/Blending  
Pharmaceutical Pill Coating  
Spray Drying  
  
Metals  
BOF Furnace  
Caster  
Desulphurization Furnace  
Electric Arc Furnace  
Induction Furnace  
Ladle Melt Furnace  
Mold Cooling Lines  
Sand Shakeout/Sand Reclaim  
Shot Blast/Grinding

Paint/Pigments  
Micronizers  
Packaging  
Paint Mixing  
Pigment Blending  
Pneumatic Conveying  
Spray Drying  
Toner Mixing/Blending  
  
Primary Aluminum  
Alumina Handling/Unloading  
Anode Crushing Ventilation  
Carbon Bake Dry Scrubbers  
Fluid Bed Dry Scrubbers  
Green Mill Carbon Handling  
Reacted/Unreacted Ore Silos  
Venturi Injection Dry Scrubbers

