Fischer-Robertson, Inc.
3890 Symmes Road
Hamilton, OH 45015
ph 513-860-3445 fx 513-860-4744
www.fischer-robertson.com

Fact Sheet

BHA® Fabric Filter Bags & Cages

Parker Hannifin delivers reliable and durable fabric filter bags and cages engineered to meet the needs of your unique system.

We can deliver most any type of filter bag for your baghouse, regardless of OEM design and system conditions. The charts below specify the most popular styles, fabrics, and finishes, and the conditions the bags are best suited to handle.

Fabrics	Polypropylene	Acrylic	Polyester	PPS	Aramid	P84***	Fiberglass*	PTFE***
Max. Continuous Operating Temperature	170°F (77°C)	265°F (130°C)	275°F (135°C)	375°F (190°C)	400°F (204°C)	356–500°F (180–260°C)	500°F (260°C)	500°F (260°C)
Abrasion	Excellent	Good	Excellent	Good	Excellent	Fair	Fair	Good
Energy Absorbsion	Good	Good	Excellent	Good	Good	Good*	Fair*	Good
Filtration Properties	Good	Good	Excellent	Excellent	Excellent	Excellent	Fair	Fair
Moist Heat	Excellent	Excellent	Poor	Good	Good	Good	Excellent	Excellent
Alkalines	Excellent	Fair	Fair	Excellent	Good	Fair	Fair	Excellent
Mineral Acids	Excellent	Good	Fair	Excellent	Fair	Good	Poor**	Excellent
Oxygen (15%+)	Excellent	Excellent	Excellent	Poor	Excellent	Excellent	Excellent	Excellent

*Sensitive bag-to-cage fit, ** Fair with chemical or acid resistant finishes, *** Must oversize bag for shrinkage for temperatures above 450°F (232°C).

	Finishes	Finish Purpose	Available For
Non-fiberglass	BHA® Preveil® ePTFE Membrane	For capture of fine particulate, improved filtration efficiency, cake release, and airflow capacity	Polyester, Aramid, Acrylic, Polypropylene (felt and woven), P84, PPS, PTFE
	Singe	Recommended for improved cake release	Polyester, Polypropylene, Acrylic, Aramid, PPS, P84 (felts)
	Glaze/Eggshell	Provide short-term improvements for cake release	Polyester, Polypropylene (felts)
	Silicone	Aids initial dustcake development and provides limited water repellency	Polyester (felt and woven)
	Flame Retardant	Retards combustibility (not flame-proof)	Polyester, Polyproylene (felt and woven)
	Acrylic Coatings (Latex Base)	Improved filtration efficiency and cake release (may impede airflow in certain applications)	Polyester and Acrylic felts
	PTFE Penetrating Finishes	Improved water and oil repellency: limited cake release	Polyester, Aramid (felt), PPS
		Finish Purpose	Applications
Fiberglass	BHA® Preveil® ePTFE Membrane	For capture of fine particulate, improved filtration efficiency, cake release, and airflow capacity	Cement/lime kilns, incinerators, coal-fired boilers, cupola, ferro silica/alloy, furnace
	Silicone, Graphite, PTFE (SGT)	Protects glass yarns from abrasion, adds lubricity	For non-acid conditions, primarily for cement and metal foundry applications
	Acid Resistant	Helps shield glass yarn from acid attack to extend life	Coal-fired boilers, carbon black, incinerators, cement, industrial, and boiler applications
	PTFE Finish	Provides enhanced fiber to fiber resistance to abrasion and limited chemical resistance	Industrial and utility base load boilers under mild pH conditions, cement and lime kilns
	Blue Max CRF-70®	Provides improved acid resistance and reduces fiber to fiber abrasion, resistant to alkaline attack, improved fiber encapsulation	Coal-fired boilers (high and low sulfur) for peak load utilities, fluidized bed boilers, carbon black, incinerators

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ENGINEERING YOUR SUCCESS.

Fact Sheet

BHA® Fabric Filter Bags & Cages

Properly engineered cages help protect your filter investment

A well-built cage is critical to the overall performance and durability of your filter bag. Parker Hannifin cages feature evenly spaced rings and wires, with a rounded bottom pan (never cringed) to help ensure proper filter fit. Choose from a number of materials to serve your specific application:

- Low carbon steel (bright basic wire)
- Galvanized low carbon steel
- Type 304 stainless steel
- Type 316 stainless steel

Rigid Wire Cages

Standard and specialty cage tops are available. All bottom pans are welded to the inside to reduce abrasion. Options for rigid wire cages include:

- 11 gauge wire diameter — .1205 in. (3.1 mm)
- 9 gauge wire diameter — .148 in. (3.8 mm)
- 7 gauge wire diameter — .177 in. (4.5 mm)
- 4 to 7.375 in. (101.6 mm to 187.3 mm) cage diameter
- Customized number of vertical wires (8, 10, 12, 20)
- Customized ring spacing — standard is 6 in. or 8 in. (152.4 mm or 203.2 mm)

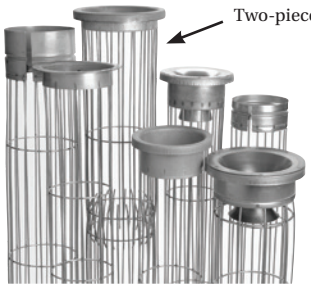
Two-Piece Cage

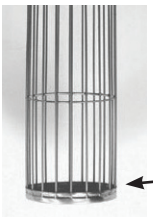
For baghouses with low headroom in the clean air plenum, we offer a two-piece cage (as shown in photo at right). This style allows for cage installation and removal in reduced spaces.

Omni cage detachable top.

Omni Cage

The Omni cage top was developed to facilitate snap-band bag removal. It has a detachable top which allows removal of the cage top first. With the cage top no longer blocking access to the snap-band, the band can be snapped loose from the tubesheet, and the bag and cage body lifted out easily.





Cages are a critical baghouse component for optimum bag performance and durability.˅

Technology for reverse air cleaning systems

We offer dozens of parts for reverse air systems including durable clamps, tensioning assemblies, and engineered tubesheet solutions (with and without thimbles).

Parker Hannifin can design any type of filter bag or element to enhance the performance of your dust collector.

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