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MADE IN THE USA




BRB-AA

Resin-Bonded Added Area Filter Bag




BRB-AA RESINATOR


**PART OF STRAINRITE'S
RESIN-BONDED
FAMILY OF PRODUCTS**



BRB RESINATOR



VISC-MAXX PLEATED FILTER



CRB-PLEAT CARTRIDGE

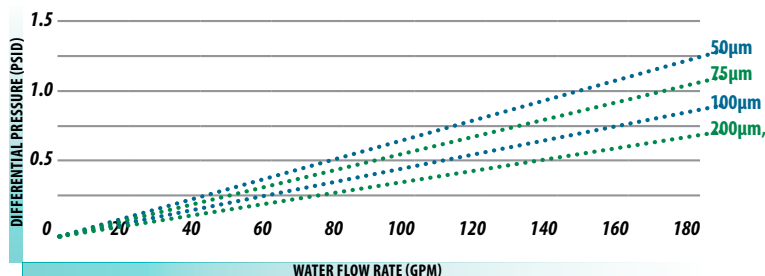
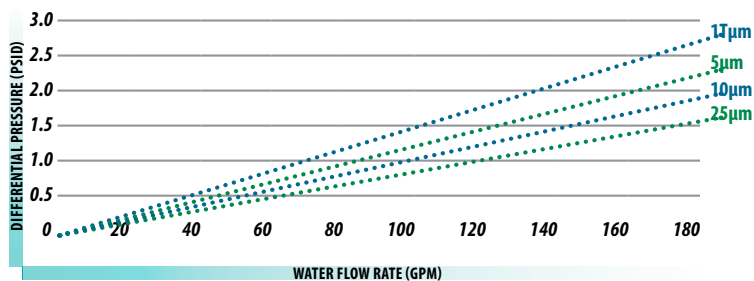
RESCUE KIT

COST SAVING TECHNOLOGY INSIDE



PERFORMANCE CHARACTERISTICS

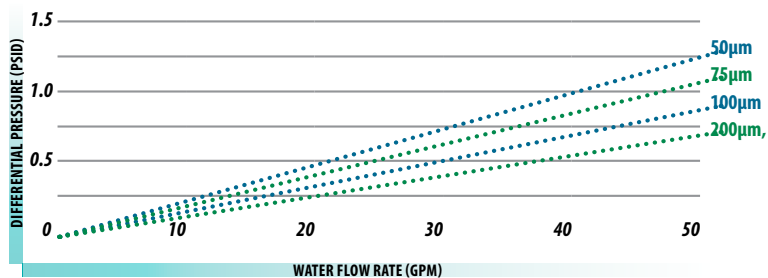
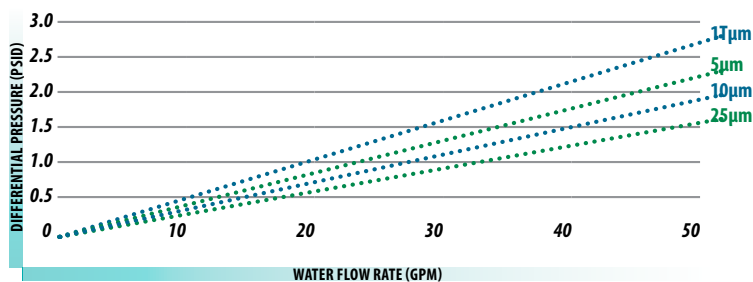
Water Flow Vs. Approximate Differential Pressure



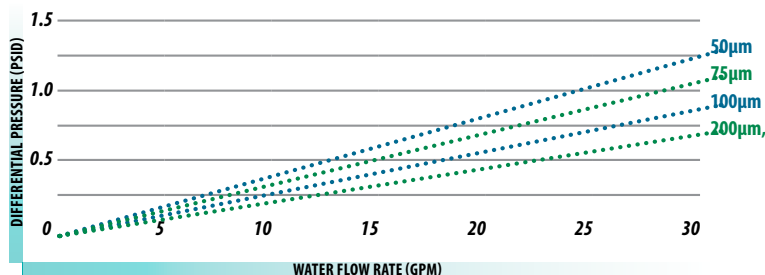
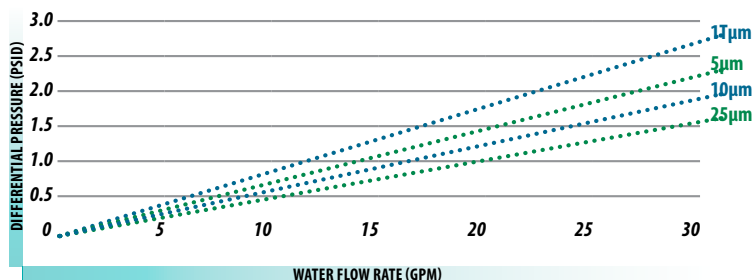
VISC-MAXX SIZE 2



BRB SIZE 2 SINGLE LAYER



BRB SIZE 2 DOUBLE LAYER



CRB 10"





MARKET

MACHINE SHOP COOLANT FILTRATION

TYPICAL BENEFITS

LONGER LIFE WITH VISCOUS FLUIDS BECAUSE OF NON-COMPRESSIBLE MEDIA RESISTANT TO DAMAGE FROM SHARP PARTICLES. PROTECTS COOLANT CHANNELS IN SOPHISTICATED MACHINING TOOLS FROM PLUGGING. TYPICALLY USE A MICRON RATING SMALLER THAN 1/5 THE CHANNEL DIAMETER — OFTEN 1/10 THE CHANNEL DIAMETER

CONTACT

- MACHINE SHOP SUPERVISOR
- PLANT MANAGER
- PRODUCTION MANAGER
- MAINTENANCE SUPERVISOR
- PROCESS ENGINEERING

QUESTIONS

- HOW OFTEN DO YOU HAVE TO CHANGE COOLANT?
- WHAT ARE YOUR COOLANT DISPOSAL COSTS?
- IF YOU COULD CLEAN UP YOUR COOLANT MORE, HOW WOULD THAT HELP YOU USE YOUR COOLANT LONGER AND REDUCE DISPOSAL?
- DO THE COOLANT CHANNELS IN YOUR TOOLS EVER FOUL?
- WHAT WOULD HAPPEN IF THE COOLANT CHANNELS IN THE TOOLING PLUGGED?
- WHERE WOULD YOU BENEFIT FROM LONGER FILTER LIFE?

SUBMARKETS

- AUTOMOTIVE PARTS MANUFACTURERS
- AEROSPACE PARTS MANUFACTURERS
- MARINE PARTS MANUFACTURES
- DEFENSE INDUSTRY
- MACHINE SHOPS
- TOOL AND DIE MANUFACTURERS



MARKET

MANUFACTURE OF RESINS, PAINTS COATINGS, USERS OF COATINGS

TYPICAL BENEFITS

LONGER LIFE WITH VISCOUS FLUIDS BECAUSE OF NON-COMPRESSIBLE MEDIA

CONTACT

- PLANT MANAGER
- PROCESS ENGINEERING
- PRODUCTION MANAGER
- MAINTENANCE SUPERVISOR

QUESTIONS

- WHERE WOULD YOU BENEFIT FROM LONGER FILTER LIFE?
- WHICH COATINGS ARE DIFFICULT TO FILTER?
- HOW MANY TIMES DO YOU CHANGE FILTERS DURING A BATCH?
- DO YOU HAVE QUARANTINED PAINT?

SUBMARKETS

- MANUFACTURERS OF:
 - HOUSEHOLD PAINT
 - AUTOMOTIVE PAINT
 - AUTOMOTIVE COATINGS
 - RESINS
 - ROAD PAINT
 - ART PAINT
 - COMMERCIAL PAINTS
 - INDUSTRIAL PAINTS
 - INKS
 - RHEOLOGY CHEMICALS
 - VISCOSIFIERS
- USERS OF PAINT (AUTOMOTIVE, AEROSPACE, APPLIANCE)
- USERS OF COATINGS (PAPER, CANS, FOOD CONTAINERS, AUTOMOTIVE, COATING SUBCONTRACTORS, ETC)

TARGET MARKETS

BRB-AA RESINATOR Resin-Bonded



MARKET

MANUFACTURE OF FOOD PACKAGING

TYPICAL BENEFITS

LONGER LIFE WITH VISCOUS COATINGS BECAUSE OF NON-COMPRESSIBLE MEDIA

CONTACT

- PLANT MANAGER
- PROCESS ENGINEERING
- PRODUCTION MANAGER
- MAINTENANCE SUPERVISOR

QUESTIONS

- DO YOU USE RESIN BONDED FILTERS NOW?
- MOST MANUFACTURERS HAVE STOPPED MAKING THESE FILTERS — WHERE WILL YOU GET THEM FROM?
- WHERE WOULD YOU BENEFIT FROM LONGER FILTER LIFE?
- WHICH COATINGS ARE DIFFICULT TO FILTER?
- HOW MANY TIMES DO YOU CHANGE FILTERS DURING A BATCH?
- WHAT IF YOUR OPERATORS COULD CHANGE ONE FILTER INSTEAD OF MANY — HOW WOULD LESS CHANGE-OUT TIME BE OF BENEFIT?
- DO FILTERS EVER PLUG IN THE MIDDLE OF A COATINGS OPERATION — WHAT IS THE IMPLICATION OF THAT?
- DO YOU EVER GET STREAKS OR MISSED/ UNCOATED SPOTS ON THE PACKAGING?

SUBMARKETS

- FOOD CONTAINER MANUFACTURING
- CAN MANUFACTURING (COATING OF CANS)
- PAPER PACKAGING MANUFACTURERS (COATING OF PAPER/CARDBOARD)



MARKET

INDUSTRIAL WASTE WATER

TYPICAL BENEFITS

LONGER LIFE WITH "SLIMY" WATER, WHERE WATER BECOMES SLIMY FROM ORGANICS AND MICROBIAL GROWTH

CONTACT

- PLANT MANAGER
- PROCESS ENGINEERING
- PRODUCTION MANAGER
- MAINTENANCE SUPERVISOR
- MAINTENANCE MANAGER

QUESTIONS

- DO YOU USE BAG FILTERS?
- HOW OFTEN DO YOU CHANGE THEM?
- HOW WOULD YOU BENEFIT FROM LONGER FILTER LIFE?
- IS THE WATER SLIMY FROM ORGANICS OR MICROBIAL GROWTH?

SUBMARKETS

- GROUND WATER REMEDIATION
- POWER UTILITIES
- MEAT PROCESSING
- POULTRY PROCESSING
- FOOD PROCESSING
- CHEMICAL PRODUCERS
- REFINERIES
- OIL AND GAS PRODUCTION
- FRACKING



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SELLING FEATURES

BRB-AA RESINATOR Resin-Bonded

RESIN BONDED MEDIUM WITH FIXED PORE STRUCTURE

- **FILTER MEDIUM DOES NOT COMPRESS TO CHOKE OFF FLOW:**
A NON-COMPRESSIBLE MEDIUM IS BETTER FOR HIGH VISCOSITY FLUIDS.
- **BETTER QUALITY FILTRATION:**
SOME CUSTOMERS MAY USE A COARSER FILTER WITH A TRADITIONAL, COMPRESSIBLE MEDIUM TO COMPENSATE FOR DIFFICULTY FILTERING, CAUSING QUALITY TO SUFFER.

MORE SURFACE AREA

- **LONGER LIFE, MORE THROUGHPUT, LESS COST:**
THE DEPTH OF RESIN BONDED LOGS IS OFTEN NOT FULLY- UTILIZED.

FLEXIBLE PLATFORM

- **MORE CHOICES:**
A BAG FILTER HOUSING CAN ACCEPT THE BRB RESINATOR AA BAG, THE BRB RESINATOR BAG AND THE VISC-MAXX FILTER – AND A RANGE OF OTHER PRODUCTS.

INSIDE TO OUTSIDE FLOW

- **CONTAMINANTS CAUGHT ON INSIDE (BRB, BRB-AA, AND VSC-MX):**
LESS MESS, EASIER FOR OPERATORS.

STRAINRITE CONTROLLED FILTER MEDIUM

- **AVAILABILITY, DEPENDABILITY, QUALITY:**
SEVERAL RESIN BONDED FILTER COMPETITORS HAVE STOPPED MANUFACTURING. WE CAREFULLY CONTROL THE MANUFACTURE AND QUALITY OF OUR MATERIALS.

NON-SHEDDING

- **CLEANER FILTER EFFLUENT:**
SOME RESIN BONDED LOGS SHED FIBERS WHEN TAPPED ON A TABLE (OR WHEN FILTERING LIQUID).

NO GLUES

- **CLEANER EFFLUENT, RELIABLE CONSTRUCTION:**
SOME RESIN BONDED LOG FILTERS ARE MADE IN 10" NOMINAL LENGTHS AND GLUED TOGETHER TO MAKE LONGER ELEMENTS.



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SUCCESS STORY

BRB-AA RESINATOR Resin-Bonded

AUTOMOTIVE PAINT

Market: Coatings

Description: Manufacturing/fil-
tering of paint for car refinishing

Process: Batch portable cart

Problems: Problem batches were not meeting specifications and were put on hold. These batches often needed to be re-filtered multiple times. When customer could not meet specification with standard bag filters, as a last resort they would use disposable capsule packs with six 10" tall competitor's resin bonded cartridges

Implications: The disposable packs were so expensive that they were only tried as a last resort, and in the meantime days of production could be held up as they tried to refilter multiple times

Strainrite Brand: Resinator

Strainrite Part Number: BRB25P2SHS

Details: The customer used the Resinator product to replace the capsule packs with resin bonded filters and achieve the same results. Product / paint once filtered was within specifications

Need Payoff: Not only does customer save \$125 each time a BRB-25P2SHS is used instead of a Clean Pack, but they can ship more product out the door each year. **Estimated \$75,000 per year savings on filters alone**



AUTOMOTIVE COATING

Market: Coatings

Description: Viscous Automotive Coatings

Process: Coating filtered before container filling

Problems: With problem batches, customer was not able to achieve appreciable flow through traditional bag filters at the required micron rating. Customer then used vibrating screen technology, difficult to set up and extremely slow

Implications: The vibrating screen required additional labor and setup and delayed production schedules

Strainrite Brand: Visc-MAXX pleated resin bonded filter

Strainrite Part Number: VSCMX25P1CP-APH

Details: By using the Visc-MAXX filter, customer is able to process batches in a timely fashion and able to achieve required quality levels

Need Payoff: **Estimated \$75,000 per year savings in production time**



GYM FLOOR VARNISH

Market: Coatings

Application: Varnish for Gym floors

Process: Filter the varnish before packaging

Problems: The customer couldn't get the competitor's 75 micron resin bonded product anymore

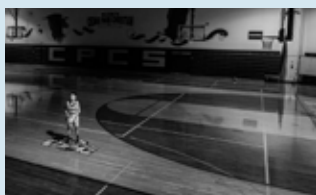
Implications: The customer was not able to produce without ability to filter the product

Strainrite Brand: CRB-Pleat: Continuous Resin-Bonded Depth

Strainrite Part Number: CRB100-30C1B-MC

Details: CRB cartridge proved to have a better seal and produce a cleaner varnish. End user switched to our CRB product because of the quality of the end product and the fact that the competing filter manufacturer was no longer supplying their product

Need Payoff: The customer could now get the filters they needed to run their process and generate revenue! In addition, they produced a better quality product much to the pleasure of their marketing department and customers. **Inability to produce would have cost the customer \$millions/year**



FINGER PAINTS

Market: Coatings

Application: Finger Paint

Process: Batch feed from totes

Problems: White specs in finished product (thought to be raw material not mixed in properly).

Paint had to be filtered 3 to 5 times to remove the white specs. This was done using gravity feed

Implications: Customer returns or long production time; sometimes the filtering would take 24 hours

Strainrite Brand: Strainrite Value series bag housing, Resinator AA bags

Strainrite Part Number: SRVB-1B-2V-SO/BO / BRB200P1M-SL-AA

Details: Designed a system to remove white specs in finger paint using a filter cart with pump. Customer was able to remove the contaminants in a single pass, reducing production time. The filter was sized large enough that it wouldn't have to be changed during filtration, reducing mess

Need Payoff: The filter cart we designed cut the paint production time by over 12 hours, and produced a product without any white specs, reducing or eliminating returns. As a result, **the customer saved an estimated \$50,00 per year in production time**

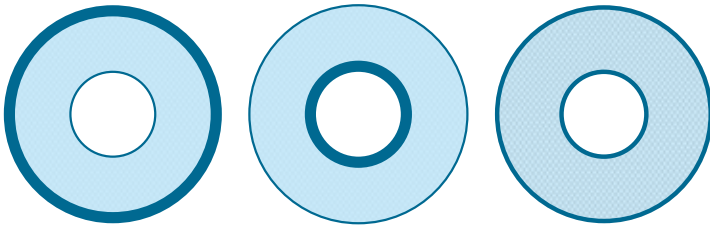


COMPETITIVE DIFFERENTIATION

BRB-AA RESINATOR Resin-Bonded

PERFORMANCE

ILLUSTRATION OF TYPICAL RESIN BONDED FILTERS



OUTER SURFACE LOADING

INNER LAYER LOADING

UNIFORM DEPTH LOADING

A resin bonded log can sometimes load only at its outer surface, in which case its effective surface area is only 0.5 ft² per 10" length. Although with ideal depth loading the effective surface area might be 1.5 ft² per 10" length, many depth-filter users are not getting maximum depth utilization from their resin bonded filters.

Strainrite's resin bonded filter media filters offer the benefit of depth while providing more surface-area, resulting in disproportionately longer life and fewer filters used.

STRAINRITE FILTERS OFFER:

- MORE SURFACE AREA IN THE SAME FOOTPRINT
- LONGER LIFE
- HIGHER THROUGHPUT
- LESS CHANGEOUT LABOR
- OVERALL COST SAVINGS
- ENHANCED CONTAMINATION CONTROL
- REDUCED REJECTED OR QUARANTINED PRODUCT

VALUE

WHY BUY ALL OF THESE... WHEN ONE IS ALL YOU NEED?



FLEXIBILITY

The Flexible Platform:

*Choose the one
that works the best;
Switch it up
when things progress!*

BRB Resinator filter bag AA style with added area: 70% more surface area than typical bag – resulting in longer life. 50% less holdup volume than standard bag. **Contaminants trapped on inside!**



BRB Resinator filter bag: The standard bag has nearly 5 gal fill capacity for those high-solids loading applications where contaminants form a porous cake. **Contaminants trapped on inside!**



Visc-MAXX pleated filter: With 18 sq ft in a 27" long (P2) cartridge, this filter can replace up to 36 standard 10" resin bonded filter logs. This filter is used where longer filter life and maximized throughput are essential. **Contaminants trapped on inside!**

The same bag filter housing accepts all these!



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DATA SHEET

BRB-AA RESINATOR Resin-Bonded Bags

Once again, The Strainrite Companies delivers true filtration innovation by combining only the positive qualities of resin-bonded cartridges with the proven advantages of a Strainrite premium quality filter bag. The BRB-AA filter bag combines the benefits of added filter area with a resin-bonded filter medium that provides extra-ordinary life and high quality filtration for coatings, resins, paints, and adhesives. The non-compressible filter medium is ideal for high viscosity fluids. The phenolic-resin impregnated filter medium is tolerant to temperatures of 250°F when used with polyester hardware. *

BRB-AA users gain the non-compressible media depth of a resin filter, along with the greatly enhanced solids loading capacity and cost saving features of a Strainrite gradient-density filter bag. This product excels in a wide variety of high viscosity fluid filtration applications where authoritative removal of problematic gels is required.

These “hard body” filter bags represent a significant advancement in the utilization of rigid fiber technology and illustrate the leadership role The Strainrite Companies plays in supplying vision and technical leadership when designing and manufacturing liquid filter bags.

* requires use of an AA basket. For AA bags that will not be placed in a Strainrite-manufactured AA basket, or that will be used with a basket-insert, a non-standard length bag may be required. Contact your Strainrite distributor for assistance.



MAXIMUM OPERATING TEMPERATURE	
180°F (80°C) with polypropylene hardware	
250°F (121°C) with polyester hardware or metal ring	
ORDER OPTIONS	
MATERIAL	
BRB	Resin-Bonded Polyester Felt
MICRON RATINGS	
11,1.5,10,25,50,75,100,200	
FINISH	
P	Plain
SIZE	
1	7" x 16"
2	7" x 30.5"
RING	
P	Polypropylene P-Flange
M	Polypropylene M-Flange
PER	Polyester P-Flange
MER	Polyester M-Flange
SHS	Carbon Steel Ring w/ Handle Strap*
SSHS	Stainless Steel Ring w/ Handle Strap*
PRHS	Polypropylene Ring w/ Handle Strap*
OPTIONS	
AA	Added Area
SLAA	Single Layer Added Area Bag

- ▶ NON-COMPRESSIBLE MEDIA DEPTH
- ▶ RIGID FIBER TECHNOLOGY
- ▶ GRADUATED DOUBLE LAYER
- ▶ HIGH DIRT LOADING CAPACITY
- ▶ 65% MORE SURFACE AREA THAN YOUR STANDARD SIZE 2 BAG FILTER
- ▶ UP TO 50% MORE FLOW THAN YOUR STANDARD SIZE 2 BAG FILTER
- ▶ LOWER TOTAL COSTS DUE TO HIGHER SOLIDS LOADING CAPABILITIES
- ▶ REDUCED LABOR COSTS FROM FEWER CHANGE-OUTS
- ▶ SMALLER HOUSING FOOT-PRINT IN NEW APPLICATION
- ▶ LOWER HOLD-UP VOLUME (67% LESS)
- ▶ LESS PRODUCT DRAG-OUT



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SEAL TYPES

BRB-AA RESINATOR Resin-Bonded

P: Polypropylene P-Flange



M: Polypropylene M-Flange



PER: Polyester P-Flange



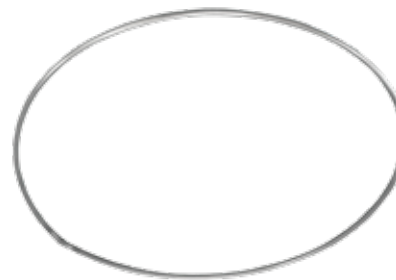
MER: Polyester M-Flange



S: Carbon Steel Ring



SS: Stainless Steel Ring



P: Polypropylene Ring



CROSS REFERENCE CHART

Strainrite Resin-Bonded Products

*This Cross Reference Chart is for general guidance only.
The appropriate Strainrite filter to recommend will depend on
the specific application.*

*In many cases we have had success replacing a competitor's resin bonded filter with Strainrite product that is one micron grade coarser,
e.g., we have replaced a 50 micron product with a 75 micron product.*

Please discuss each specific application with your Strainrite regional sales manager.

Competitor Filter			Strainrite Filter	
Parker Code	*Estimated Surface Area	Typical Price	Conversion SL= single layer DL = double layer	Surface Area
PRO2-30 (2µm, 30")	1.5 ft ² /4.5 ft ²	\$15-25/30" end user price, typical, depending on volume	BRB-AA, #2, SL: 1Tµm, 1µm or 5µm	7.69 ft ² / size 2
			BRB, #2, SL or DL: 1Tµm, 1µm or 5µm	4.77 ft ² / size 2
			VSC-MX, P2: 1Tµm, 1µm or 5µm	18 ft ² /P2 replaces 4-12 x 30" PROBOND
			CRB, 10": 1Tµm, 1µm or 5µm	3 ft ² /10"
PRO5-30 (5µm, 30")	1.5 ft ² /4.5 ft ²	\$15-25/30" end user price, typical, depending on volume	BRB-AA, #2, SL: 1µm, 5µm or 10µm	7.69 ft ² / size 2
			BRB, #2, SL or DL: 1µm, 5µm or 10µm	4.77 ft ² / size 2
			VSC-MX, P2: 1µm, 5µm or 10µm	18 ft ² /P2 replaces 4-12 x 30" PROBOND
			CRB, 10": 1µm, 5µm or 10µm	3 ft ² /10"
PRO10-30 (10µm, 30")	1.5 ft ² /4.5 ft ²	\$15-25/30" end user price, typical, depending on volume	BRB-AA, #2, SL: 10µm or 25µm	7.69 ft ² / size 2
			BRB, #2, SL or DL: 10µm or 25µm	4.77 ft ² / size 2
			VSC-MX, P2: 10µm or 25µm	18 ft ² /P2 replaces 4-12 x 30" PROBOND
			CRB, 10": 10µm or 25µm	3 ft ² /10"
PRO25-30 (25µm, 30")	1.5 ft ² /4.5 ft ²	\$15-25/30" end user price, typical, depending on volume	BRB-AA, #2, SL: 25µm or 50µm	7.69 ft ² / size 2
			BRB, #2, SL or DL: 25µm or 50µm	4.77 ft ² / size 2
			VSC-MX, P2: 25µm or 50µm	18 ft ² /P2 replaces 4-12 x 30" PROBOND
			CRB, 10": 25µm or 50µm	3 ft ² /10"
PRO50-30 (50µm, 30")	1.5 ft ² /4.5 ft ²	\$15-25/30" end user price, typical, depending on volume	BRB-AA, #2, SL: 50µm or 75µm	7.69 ft ² / size 2
			BRB, #2, SL or DL: 50µm or 75µm	4.77 ft ² / size 2
			VSC-MX, P2: 50µm or 75µm	18 ft ² /P2 replaces 4-12 x 30" PROBOND
			CRB, 10": 50µm or 75µm	3 ft ² /10"
PRO75-30 (75µm, 30")	1.5 ft ² /4.5 ft ²	\$15-25/30" end user price, typical, depending on volume	BRB-AA, #2, SL: 75µm or 100µm	7.69 ft ² / size 2
			BRB, #2, SL or DL: 75µm or 100µm	4.77 ft ² / size 2
			VSC-MX, P2: 75µm or 100µm	18 ft ² /P2 replaces 4-12 x 30" PROBOND
			CRB, 10": 75µm or 100µm	3 ft ² /10"
PRO125-30 (125µm, 30")	1.5 ft ² /4.5 ft ²	\$15-25/30" end user price, typical, depending on volume	BRB-AA, #2, SL: 100µm or 200µm	7.69 ft ² / size 2
			BRB, #2, SL or DL: 100µm or 200µm	4.77 ft ² / size 2
			VSC-MX, P2: 100µm or 200µm	18 ft ² /P2 replaces 4-12 x 30" PROBOND
			CRB, 10": 100µm or 200µm	3 ft ² /10"
PRO150-30 (150µm, 30")	1.5 ft ² /4.5 ft ²	\$15-25/30" end user price, typical, depending on volume	BRB-AA, #2, SL: 200µm	7.69 ft ² / size 2
			BRB, #2, SL or DL: 200µm	4.77 ft ² / size 2
			VSC-MX, P2: 200µm	18 ft ² /P2 replaces 4-12 x 30" PROBOND
			CRB, 10": 200µm	3 ft ² /10"

*Surface Loading/Depth Loading Equivalent (30")



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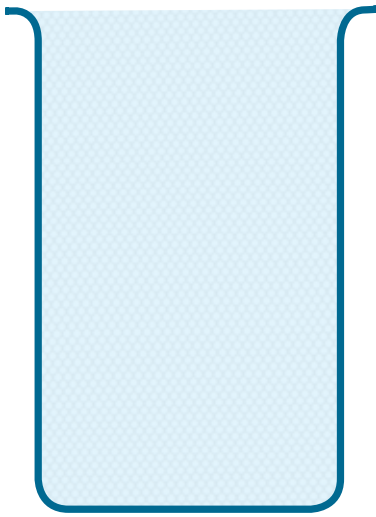


Upgrading from a traditional bag to an AA (Added Area) filter bag increases surface area which often increases filter life, improves product throughput, reduces labor, and decreases overall filter cost in a disproportionate way.

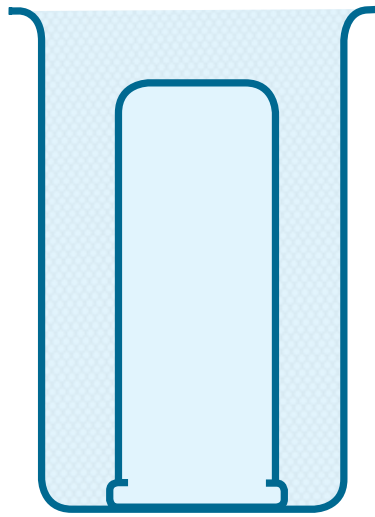
The only accessory needed is an AA insert or AA basket.

NEW AA BASKET AND INSERT

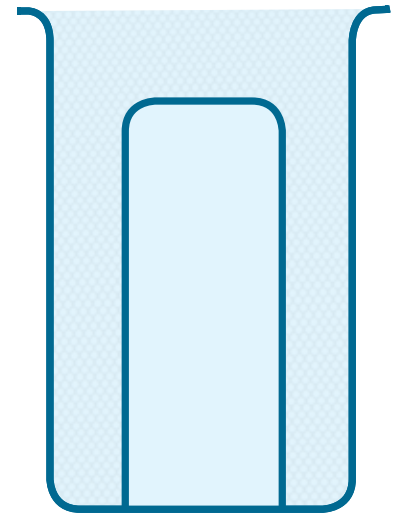
BRB-AA RESINATOR Resin-Bonded



TRADITIONAL
FILTER BASKET



TRADITIONAL BASKET
WITH AA INSERT INSTALLED



DEDICATED AA BASKET
WITH AA INSERT WELDED-IN



NEW AA INSERT

- Fits in standard basket
- Size 1 and Size 2 insert available
- Flexibility: insert in a standard basket to use AA bag, remove to use standard bag
- Easiest change-out option
- Reinforced for strength*

BASKET AND INSERT FIT PERFECTLY WITH THE BRB-AA BAG



NEW AA BASKET

- Has an AA insert welded-in
- Order the specific model for your housing
- Size 1 and Size 2 insert available
- Flexibility: Use AA basket with AA bag for maximized performance; remove and use standard basket with standard bag for easier jobs
- Reinforced for strength*

*Monitoring of differential pressure is recommended. Do not exceed 25 psid. Recommended changeout at 15 psid.



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