



## AF SERIES

CARBON

### KEY FEATURES

- **USES RESINTECH® PREMIUM ACID WASHED CARBON**
- **PROP 65 COMPLIANT FOR DRINKING WATER APPLICATIONS**
- **FITS STANDARD RESIDENTIAL AND INDUSTRIAL HOUSINGS**

### CARBON CARTRIDGES

Carbon filtration is an inexpensive and effective way to remove chemicals and contaminants commonly found in tap water. Aries FilterWorks carbon cartridges are an ideal choice for taste and odor control, chlorine removal, and organic reduction. Premium carbons are available in coal or coconut shell and are acid washed for a balanced.

California Prop 65 compliance ensures each lot of media complies with EPA recommended levels of contaminants, including arsenic.

### APPLICATIONS

#### RESIDENTIAL USE -

Carbon cartridges used as part of a water treatment system, improves water quality by removing harmful contaminants from municipal water supplies.

#### PRE-TREATMENT TO REVERSE OSMOSIS (RO) -

Provides protection by removing contaminants such as chlorine and organics that can foul RO membranes.

#### POINT-OF-USE (POU) DRINKING WATER SYSTEMS -

Cartridge provides a source of clean water and is more cost effective than purchasing bottled water. It can be used as a standalone filter to reduce or eliminate: bad tastes and odors, chlorine and organic contaminants in municipal water supplies. The use of carbon cartridges significantly improves drinking water quality.



### ABOUT CARBON

Activated carbon has remarkable absorptive properties, which makes it effective in removing chlorine, sediment and Volatile Organic Compounds (VOCs). The Carbon particles have a large surface area, allowing a small amount of carbon to efficiently filter large volumes of water. As water passes through the carbon filter many chemicals and contaminants in the water are bonded at a molecular level to the carbon, effectively removing them from the water. A large percentage of chemical compounds and organic contaminants, that cause taste and odor problems are removed by carbon.

### FEATURES & BENEFITS

- **USE OF RESINTECH® PREMIUM FINE MESH CARBON STANDARD**

Optimum mesh size provides more surface area to enhance organic adsorption and chlorine conversion

- **AVAILABLE IN STANDARD OR ACID WASHED**

Acid washing reduces carbon fines, prevents pH spiking, improves rinse up time, and adds approximately 5% more capacity to carbon media

- **OVERSIZED CARTRIDGE FOR MAXIMUM MEDIA FILL**

AF Series cartridges have up to 50% higher capacity and extend cartridge life, due to the use of larger cartridges.

- **QUALITY PRODUCED AND MADE IN THE USA**

To ensure consistent quality and peace of mind for the consumer all drinking water media are WQA Gold Seal or NSF certified. Cartridges are produced by Aries FilterWorks, a division of ResinTech®. Strict quality control over all aspects of production allows complete traceability of every cartridge

# AF SERIES - CARBON

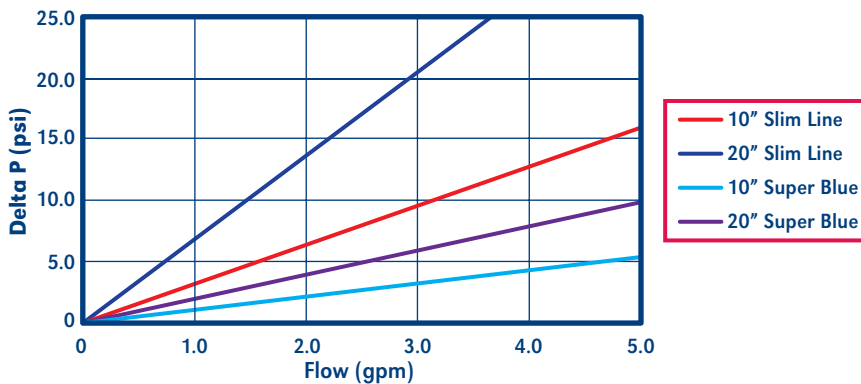
## TECHNICAL DATA

	10" SLIM	20" SLIM	10" SUPER BLUE	20" SUPER BLUE
Diameter (in.)	3.0"	2.9"	4.6"	4.6"
Length (in.)	9.9"	20.0"	10.0"	20.0"
Temperature (°F.)				
Min.	40°	40°	40°	40°
Max.	100°	100°	100°	100°
Pressure (psi)				
Min.	20	20	20	20
Max.	125	125	125	125
Micron Rating (μ)	25	25	25	25
Materials of Construction				
① Gasket	TPE	TPE	TPE	TPE
② Cap	PP	ABS	ABS	ABS
③ Pad	PE	PE	PE	PE
④ Body / Tube	PP	ABS	ABS	ABS
⑤ Media*	ResinTech® Premium Coconut Shell Granular Activated Carbon*			

PP Polypropylene  
ABS Acrylonitrile Butadiene Styrene

PE Polyester  
TPE Thermoplastic Elastomer

## GAC DELTA P



## MEDIA

As a division of ResinTech, Inc.®, Aries FilterWorks is the only integrated water filtration media and cartridge manufacturer providing a premium product at the most competitive cost. Aries builds technology and knowledge of ion exchange and specialty adsorbents into each cartridge. Strict quality control over all aspects of cartridge production allows complete traceability of every filter.

## ORDERING GUIDE

PART NUMBER	MEDIA	STANDARD HOUSING DIAMETER x LENGTH	FLOW RATE (GPM)		CAPACITY (GALLONS)
			OPERATING	MAXIMUM	
AF-10-1051	ResinTech® Premium	2.5" x 10"	.75	1.0	4,000
AF-20-1051	ResinTech® Premium	2.5" x 20"	1.0	2.0	9,000
AF-10-1041-BB	AGC40-AW / AGC50-AW Acid Washed GAC	4.5" x 10"	2.0	4.0	13,000
AF-20-1041-BB	AGC40-AW / AGC50-AW Acid Washed GAC	4.5" x 20"	3.0	5.0	30,000
AF-10-1052	ResinTech® Premium	2.5" x 10"	.75	1.0	4,000
AF-20-1052	ResinTech® Premium	2.5" x 20"	1.0	2.0	9,000
AF-10-1046-BB	AGC40-CSAW / AGC50-CSAW Acid Washed	4.5" x 10"	2.0	4.0	13,000
AF-20-1046-BB	AGC40-CSAW / AGC50-CSAW Coconut Shell GAC	4.5" x 20"	3.0	5.0	30,000



\*ResinTech® GAC  
WQA/NSF 61 Gold Seal Certified  
for Material Safety.



Notes: Ordering information subject to change without notice. Please verify all specifications prior to ordering.

To place an order call (856) 626-1550 or e-mail ariescs@ariesfilterworks.com

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DS-AFCarbon-rev1.2



## AF SERIES

CARBON / KDF®

### KEY FEATURES

- **MEDIA IS RESINTECH® PREMIUM ACID WASHED CARBON**
- **KDF® EXTENDS GAC LIFE AND INHIBITS BACTERIA GROWTH**
- **AVAILABLE IN ACID WASHED COCONUT SHELL GAC**

### CARBON / KDF® CARTRIDGES

ResinTech coconut shell granular activated carbon (GAC) is used in combination with KDF® media to significantly extend the life of filter cartridges. KDF® 55 media is a redox media that removes chlorine, and reduces heavy metals. KDF® 85 removes hydrogen sulfide and reduces iron by the redox process and filtration. Both KDF® redox media are bacteriostatic and inhibit the growth of microorganisms in the filter.

### APPLICATIONS

#### DRINKING WATER -

Carbon / KDF® cartridges are used in a variety of pretreatment or primary treatment for home and commercial drinking water systems. The use of this filter extends the life of existing cartridges and reduces cost by reducing the frequency of filter change outs.

#### PRIVATE WELLS -

KDF® media are incorporated into combinations with carbon and other matrices for bacteria control and scale reduction for treating contaminants in water.

#### REVERSE OSMOSIS AND DEIONIZATION SYSTEMS -

This cartridge protects RO systems from chlorine degradation, and ion exchange media from bacterial contamination, extending the life of the systems components and reducing operating cost.

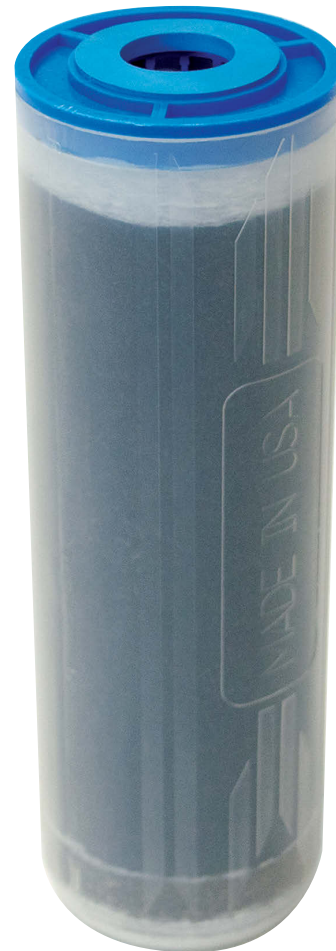
### ABOUT CARBON / KDF®

Activated carbon has remarkable cleaning and absorptive properties, which makes it an effective way to purify water. Chemicals and contaminants in the water are bonded at a molecular level to the carbon, effectively removing them from the water.

The addition of stabilized or reticulated KDF 55® / KDF 85® media is used to complement activated carbon filters. It aids in the removal of chlorine when treating municipal waters, and extends the carbon's life, while limiting bacterial growth in the filter. Additionally, the KDF® has the ability to remove water-soluble cations via the oxidation-reduction process, resulting in a cost effective alternative to chemical treatment.

### FEATURES & BENEFITS

- **STABILIZED KDF 55® OR KDF 85®**  
KDF® media pretreatment of granular activated carbon extends the carbon's life and limits bacteria growth in the beds
- **ACID WASHED COCONUT SHELL CARBON**  
Acid washing removes ash content, prevents pH spiking and adds approximately 5% more capacity to carbon media
- **OVERSIZED CARTRIDGE FOR MAXIMUM MEDIA FILL**  
AF Series cartridges have up to 50% higher capacity and extend cartridge life, due to the use of larger cartridges. Oversized AF Series cartridges are double-open end cartridges that fit standard residential and industrial housings
- **QUALITY PRODUCED AND MADE IN THE USA**  
Cartridges are produced by Aries FilterWorks, a division of ResinTech®. Strict quality control over all aspects of cartridge and media production allows complete traceability of every filter



# AF SERIES - CARBON / KDF®

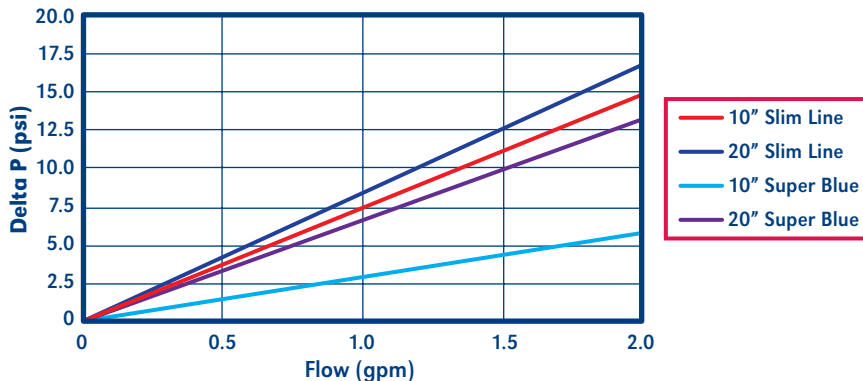
## TECHNICAL DATA

	10" SLIM	20" SLIM	10" SUPER BLUE	20" SUPER BLUE
Diameter (in.)	3.0"	2.9"	4.6"	4.6"
Length (in.)	9.9"	20.0"	10.0"	20.0"
Temperature (°F.)				
Min.	40°	40°	40°	40°
Max.	100°	100°	100°	100°
Pressure (psi)				
Min.	20	20	20	20
Max.	125	125	125	125
Micron Rating (μ)	25	25	25	25
Materials of Construction				
① Gasket	TPE	TPE	TPE	TPE
② Cap	PP	ABS	ABS	ABS
③ Pad	PE	PE	PE	PE
④ Body / Tube	PP	ABS	ABS	ABS
⑤ Media Layer 1*	ResinTech® GAC Granular Activated Coconut Shell Carbon*			
⑥ Media Layer 2*	KDF-55® or KDF-85® Equivalent			

PP Polypropylene  
ABS Acrylonitrile Butadiene Styrene

PE Polyester  
TPE Thermoplastic Elastomer

## CARBON / KDF® DELTA P



## MEDIA

As a division of ResinTech, Inc.®, Aries FilterWorks is the only integrated water filtration media and cartridge manufacturer providing a premium product at the most competitive cost. Aries builds technology and knowledge of ion exchange and specialty adsorbents into each cartridge. Strict quality control over all aspects of cartridge production allows complete traceability of every filter.

## ORDERING GUIDE

PART NUMBER	MEDIA	KDF EQUIV.	STANDARD HOUSING DIAMETER X LENGTH	SERVICE FLOW RATE (GPM)	CAPACITY (GRAINS)
AF-10-2010		0.5 lb.	2.5" x 10"	0.1	334
AF-20-2011	ResinTech® Premium	1.0 lb.	2.5" x 20"	.25	756
AF-10-2012-BB	AGC40-CS/ AGC50-CS	2.0 lb.	4.5" x 10"	.25	845
AF-20-2012-BB	Stabilized KDF-55®	2.0 lb.	4.5" x 20"	0.5	1,871
AF-20-2012-BB		1.0 lb.	4.5" x 20"	0.5	1,871
AF-10-2210		0.5 lb.	2.5" x 10"	0.1	334
AF-20-2211	ResinTech® Premium	1.0 lb.	2.5" x 20"	.25	756
AF-10-2212-BB	AGC40-CS/ AGC50-CS	2.0 lb.	4.5" x 10"	.25	845
AF-20-2212-BB	Stabilized KDF-85®	2.0 lb.	4.5" x 20"	0.5	1,871
AF-20-2212-BB		1.0 lb.	4.5" x 20"	0.5	1,871

\*Capacity is based on the volume of carbon content

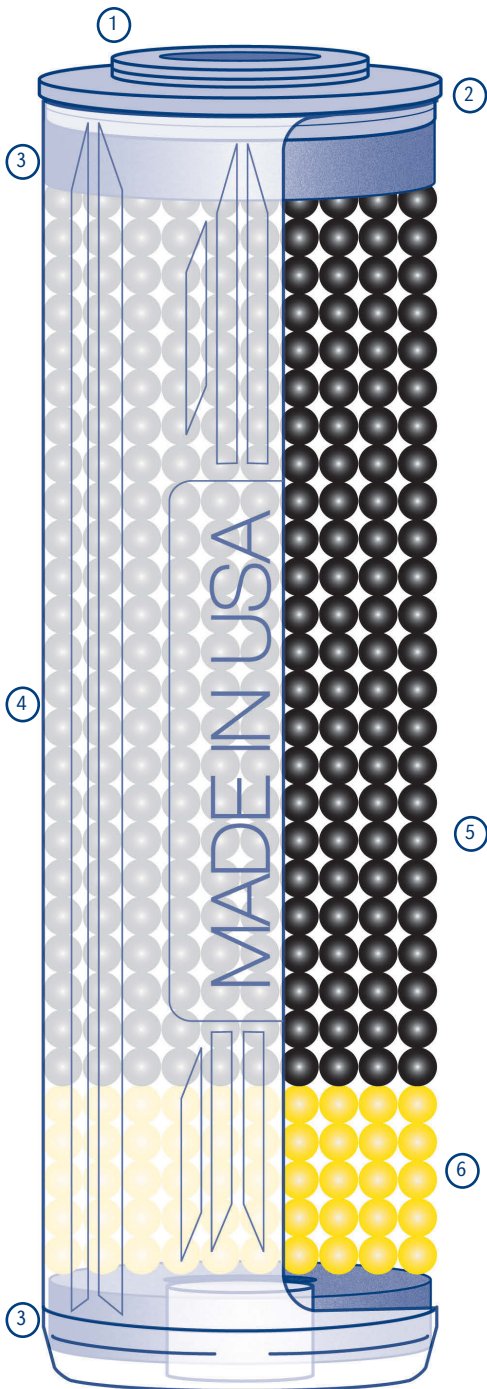
Notes: Ordering information subject to change without notice. Please verify all specifications prior to ordering.

To place an order call (856) 626-1550 or e-mail ariescs@ariesfilterworks.com

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\*ResinTech® GAC  
WQA/NSF 61 Gold Seal Certified  
for Material Safety.



## AF SERIES

### CATALYTIC CARBON

#### KEY FEATURES

- **USE OF CALGON CENTAUR™ CATALYTIC CARBON**
- **REMOVAL OF CHLORAMINES AND HYDROGEN SULFIDE**
- **REDUCES RELIANCE ON ADDITIONAL CHEMICAL TREATMENT**

#### CATALYTIC CARBON/CALGON CENTAUR™

Aries FilterWorks Catalytic Carbon cartridge contains Calgon Centaur™ Carbon. This is a specially enhanced carbon developed through an advanced process starting as Granular Activated Carbon (GAC). By altering the electron structure of GAC, it enhances its catalytic capability, enabling it to cause chemical reactions without changing its structure. As a result, it promotes a wide range of chemical reactions where conventional carbons are not effective.

#### APPLICATIONS

##### RESIDENTIAL DRINKING WATER CHLORAMINES REMOVAL -

Chloramines are the result of standard chlorinating procedures, or are intentionally introduced by municipal water treatment plants. Replacing traditional activated carbon with catalytic carbon results in significantly improved water treatment.

##### PRIVATE WELLS -

Effective for treatment of "sulfur water"; catalytic carbon retains all of the adsorptive properties of conventional activated carbon, but it combines them with the ability to promote or catalyze chemical reactions during the treatment process, catalytic carbon first adsorbs sulfides onto the carbon surface. Then, in the presence of dissolved oxygen, it oxidizes the sulfides and converts them to non-objectionable compounds.

##### COMMERCIAL -

Catalytic Carbon cartridges are well suited for treating process water, in the bottling and soft drink industries, as well as aquarium treatment.



#### ABOUT CATALYTIC CARBON

Catalytic Carbon provides another alternative to chemical treatment. Essentially, catalytic carbon is activated carbon with a modified carbon surface. Activated carbon filtration removes very small amounts of hydrogen sulfide, and has a limited capacity to adsorb hydrogen sulfide. Catalytic carbon is more efficient due to its unique structure at removing hydrogen sulfide.

Chloramines are used to control bacterial growth in distribution systems and to reduce the formation of trihalomethanes (THMs). However, recent concerns over chloramines in the water supply and its by-products have water professionals looking for products to remove chloramines. This can be achieved by the use of Catalytic Carbon.

#### FEATURES & BENEFITS

##### • USE OF CENTAUR CALGON™

Aries Centaur Calgon™ cartridge achieves greater degree of contaminant removal at reduced cost

##### • FITS STANDARD RESIDENTIAL AND INDUSTRIAL SIZE HOUSING

AF Series cartridges are double-open end cartridges that fit standard residential and industrial housings

##### • OVERSIZED CARTRIDGE FOR MAXIMUM MEDIA FILL

AF Series cartridges have up to 50% higher capacity and extended life, due to the use of larger cartridges.

##### • QUALITY PRODUCED AND MADE IN THE USA

Cartridges are produced by Aries FilterWorks, a division of ResinTech®. Strict quality control over all aspects of cartridge and media production allows complete traceability of every filter

# AF SERIES - CATALYTIC CARBON

## TECHNICAL DATA

	10" SLIM	20" SLIM	10" SUPER BLUE	20" SUPER BLUE
Diameter (in.)	3.0"	2.9"	4.6"	4.6"
Length (in.)	9.9"	20"	10.0"	20.0"
Temperature (°F.)				
Min.	40°	40°	40°	40°
Max	100°	100°	100°	100°
Pressure (psi)				
Min.	20	20	20	20
Max.	125	125	125	125
Micron Rating (μ)	25	25	25	25
Materials of Construction				
① Gasket	TPE	TPE	TPE	TPE
② Cap	PP	ABS	ABS	ABS
③ Pad	PE	PE	PE	PE
④ Body / Tube	PP	ABS	ABS	ABS
⑤ Media*	Calgon Centaur™ Carbon			

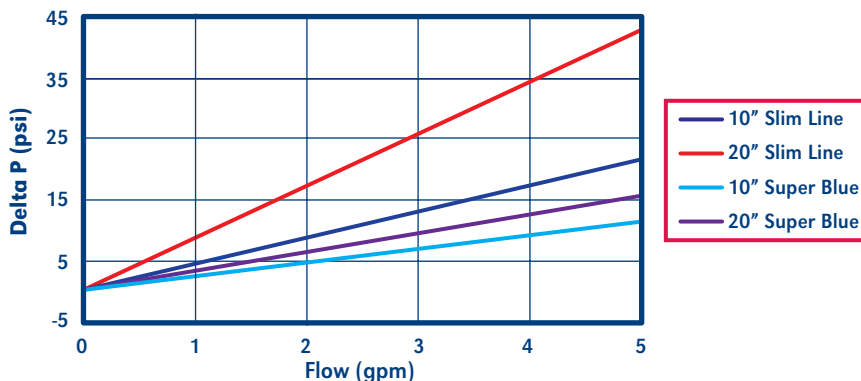
PP Polypropylene

ABS Acrylonitrile Butadiene Styrene

PE Polyester

TPE Thermoplastic Elastomer

## CALGON CENTAUR™ DELTA P



## MEDIA

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## ORDERING GUIDE

PART NUMBER	MEDIA	STANDARD HOUSING DIAMETER X LENGTH	FLOW RATE (GPM)		CAPACITY (GALLONS)
			OPERATING	MAXIMUM	
AF-10-1053		2.5" x 10"	.75	1.0	2,000
AF-20-1053	Calgon Centaur™	2.5" x 20"	1.0	2.0	3,500
AF-10-1042-BB	Catalytic Carbon	4.5" x 10"	2.0	4.0	4,375
AF-20-1042-BB		4.5" x 20"	3.0	5.0	8,750



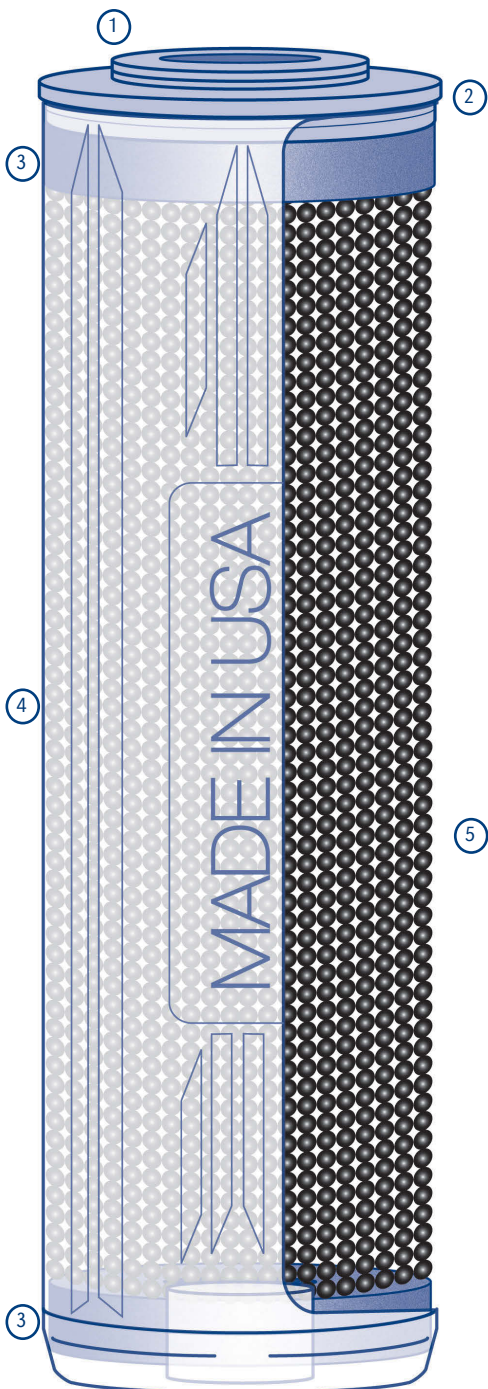
Notes: Ordering information subject to change without notice. Please verify all specifications prior to ordering.

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## AF SERIES

CARBON / PHOSPHATE

### KEY FEATURES

- **PREMIUM RESINTECH® ACID WASHED COCONUT SHELL CARBON**
- **PREVENTS SCALE, CORROSION, REMOVES TASTE AND ODOR**
- **PROP 65 COMPLIANT FOR DRINKING WATER APPLICATIONS**

### CARBON / PHOSPHATE CARTRIDGES

Aries FilterWorks Carbon/Phosphate combination cartridges use carbon to effectively improve taste and odor by removing chlorine and phosphate to reduce scale buildup. This combination of Premium GAC carbon and phosphate dramatically improves the quality of drinking water, as well as its ability to protect metal parts from corrosion when used in certain industries.

### APPLICATIONS

#### COMMERCIAL USE -

AF Series cartridges are used with many commercial grade coffee and tea brewing machines, ice makers, beverage dispensing equipment and water misters. Corrosion of metal parts is reduced by forming a protective coating on all metal surfaces safeguarding against acidity/alkalinity within a pH of 6.5-9.0.

#### RESIDENTIAL USE -

At Point-of-Use Carbon/Phosphate cartridges are an ideal choice to improve taste and control odor by removing the chlorine from drinking water.

#### PRE-TREATMENT TO REVERSE OSMOSIS (RO) -

Provides protection by removing contaminants such as chlorine, organic, and binds hardness that can foul RO membranes, thus reducing the efficiency of the membrane.

### ABOUT CARBON

Activated carbon has remarkable cleaning and absorptive properties, which makes it an effective way to clean water. Carbon is effective in removing chlorine, sediment and Volatile Organic Compounds (VOCs). The Carbon particles have a large surface area, allowing a small amount of carbon to efficiently filter large amounts of water. As water passes through the carbon filter many chemicals and contaminants in the water are bonded at a molecular level to the carbon, effectively removing them from the water. A large percentage of chemical compounds and organic contaminants, that cause taste and odor problems are removed by carbon.

### FEATURES & BENEFITS

- **USE OF RESINTECH® COCONUT SHELL GAC AND SLOW MELT POLYPHOSPHATE**

Carbon/Phosphate cartridges available in acid wash to prevents pH spiking

- **FITS STANDARD RESIDENTIAL AND INDUSTRIAL SIZE HOUSING**

AF Series cartridges are double-open end cartridges that fit standard residential and industrial housings

- **OVERSIZED CARTRIDGE FOR MAXIMUM MEDIA FILL**

AF Series cartridges have up to 50% higher capacity and extend cartridge life, due to the use of larger cartridges

- **QUALITY PRODUCED AND MADE IN THE USA**

To ensure consistent quality and peace of mind for the consumer all drinking water media are WQA Gold Seal or NSF certified. Cartridges are produced by Aries FilterWorks, a division of ResinTech®. Strict quality control over all aspects of production allows complete traceability of every cartridge



# AF SERIES - CARBON / PHOSPHATE

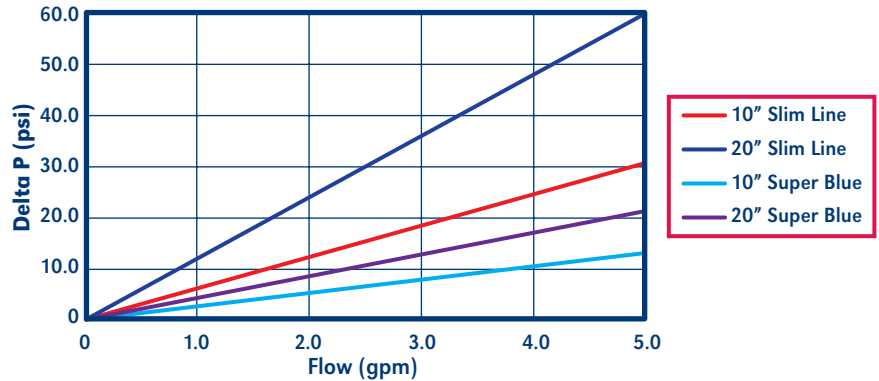
## TECHNICAL DATA

	10" SLIM	20" SLIM	10" SUPER BLUE	20" SUPER BLUE
Diameter (in.)	3.0"	2.9"	4.6"	4.6"
Length (in.)	9.9"	20"	10.0"	20.0"
Temperature (°F.)				
Min.	40°	40°	40°	40°
Max.	100°	100°	100°	100°
Pressure (psi)				
Min.	20	20	20	20
Max.	125	125	125	125
Micron Rating (μ)	25	25	25	25
Materials of Construction				
① Gasket	TPE	TPE	TPE	TPE
② Cap	PP	ABS	ABS	ABS
③ Pad	PE	PE	PE	PE
④ Body / Tube	PP	ABS	ABS	ABS
⑤ Media Layer 1*	ResinTech® GAC Granular Activated Coconut Shell Carbon*			
⑥ Media Layer 2*	Phosphate Crystals			

PP Polypropylene  
ABS Acrylonitrile Butadiene Styrene

PE Polyester  
TPE Thermoplastic Elastomer

## DELTA P



## MEDIA

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## ORDERING GUIDE

PART NUMBER	MEDIA CARBON / PHOSPHATE (LBS.)	STANDARD HOUSING DIAMETER X LENGTH	SERVICE FLOW RATE (GPM)	CAPACITY** (PPM)
AF-10-3302	CSAW GAC / .25	2.5" x 10"	1.0	2,500
AF-10-3305	CSAW GAC / .50	2.5" x 10"	1.0	5,000
AF-20-3310	CSAW GAC / 1.0	2.5" x 20"	2.0	10,000
AF-20-3312	CSAW GAC / 2.0	2.5" x 20"	2.0	20,000
AF-10-3311-BB	CSAW GAC / 1.0	4.5" x 10"	3.0	10,000
AF-10-3312-BB	CSAW GAC / 2.0	4.5" x 10"	3.0	20,000
AF-20-3312-BB	CSAW GAC / 2.0	4.5" x 20"	5.0	20,000
AF-20-3314-BB	CSAW GAC / 4.0	4.5" x 20"	5.0	40,000

\*\* Capacity based on volume of phosphate



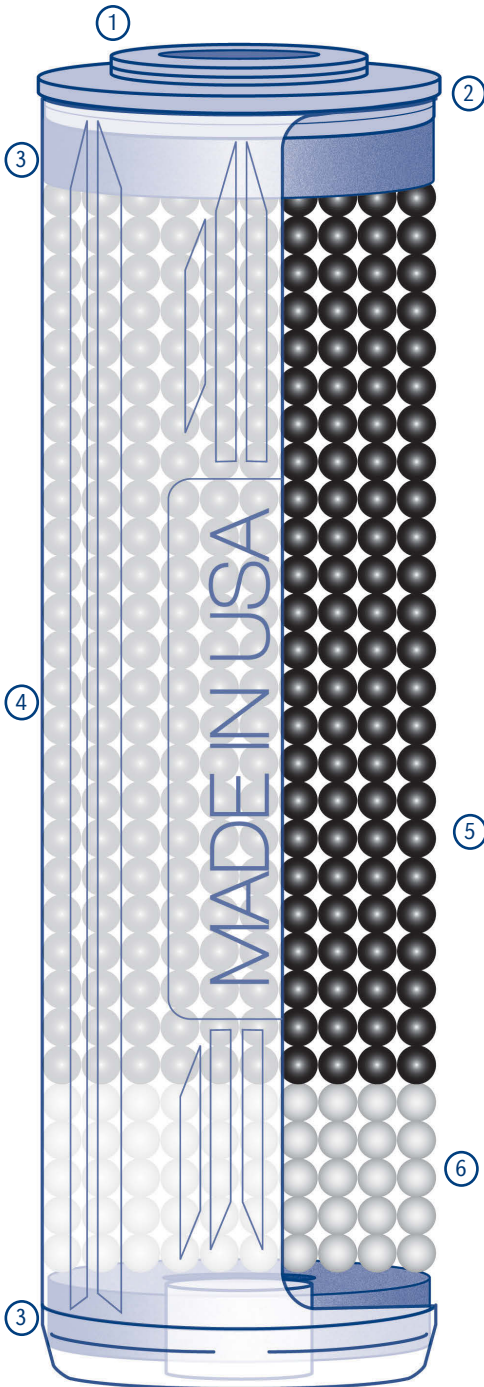
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### IMPORTANT NOTICE TO USER:

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\*ResinTech® GAC  
WQA/NSF 61 Gold Seal Certified  
for Material Safety.





## AF SERIES

PHOSPHATE

### KEY FEATURES

- EFFECTIVELY TREATS SCALE, CORROSION AND IRON PROBLEMS
- IDEAL FOR SERVICE AND WATER PROCESSING EQUIPMENT
- MEDIA DISSOLVES SLOWLY FOR EXTENDED PROTECTION

### PHOSPHATE CARTRIDGES

Aries FilterWorks 3300 series Phosphate Cartridge contains food grade, slow melt polyphosphate that dissolves in water to inhibit scale and rust build up. This filter is used primarily where scale, corrosion and increased amounts of iron are present in the water source. Phosphate cartridges are also available in combination with coconut shell GAC. The additional combination improves taste and odor and removes chlorine.

### APPLICATIONS

#### COMMERCIAL USE -

Effectively reduces scale by separating hardness particles so they cannot precipitate and form deposits when heated. These cartridges are used with many commercial grade coffee and tea brewing machines, ice makers, beverage dispensing equipment and water misters.

#### RESIDENTIAL USE -

As part of a water treatment system, phosphate cartridges are used to maintain distribution systems. The corrosive properties of water can be attributed to low pH; high temperature and total dissolved solids. Phosphates are used in water treatment to sequester inorganic contaminants (iron, manganese, calcium etc.) and to maintain water quality.

### ABOUT PHOSPHATE

As a mineral, phosphate is not seen as harmful and is safe to ingest at reasonable levels. Phosphates are derivatives of phosphoric acid, which contain phosphorous and oxygen and exist in inorganic and organic forms. They are widely used in water treatment and industrial formulations because of their superior ability to soften water, control scale and corrosion, and sequester iron, calcium and manganese.

### FEATURES & BENEFITS

#### • USE OF SLOW MELT POLYPHOSPHATE

The phosphate cartridge features 100% slow melt NSF certified polyphosphate

#### • FITS STANDARD RESIDENTIAL AND INDUSTRIAL SIZE HOUSING

AF Series cartridges are double-open end cartridges that fit standard residential and industrial housings

#### • OVERSIZED CARTRIDGE FOR MAXIMUM MEDIA FILL

AF Series cartridges have up to 50% higher capacity and extended life, due to the use of larger cartridges

#### • QUALITY PRODUCED AND MADE IN THE USA

Cartridges are produced by Aries FilterWorks, a division of ResinTech®. Strict quality control over all aspects of cartridge and media production allows complete traceability of every filter



# AF SERIES - PHOSPHATE

## TECHNICAL DATA

	10" SLIM	20" SLIM	10" SUPER BLUE	20" SUPER BLUE
Diameter (in.)	3.0"	2.9"	4.6"	4.6"
Length (in.)	9.9"	20.0"	10.0"	20.0"
Temperature (°F.)				
Min.	40°	40°	40°	40°
Max	100°	100°	100°	100°
Pressure (psi)				
Min.	20	20	20	20
Max.	125	125	125	125
Micron Rating (μ)	25	25	25	25
Materials of Construction				
① Gasket	TPE	TPE	TPE	TPE
② Cap	PP	ABS	ABS	ABS
③ Pad	PE	PE	PE	PE
④ Body / Tube	PP	ABS	ABS	ABS
⑤ Media*	Phosphate Crystals			

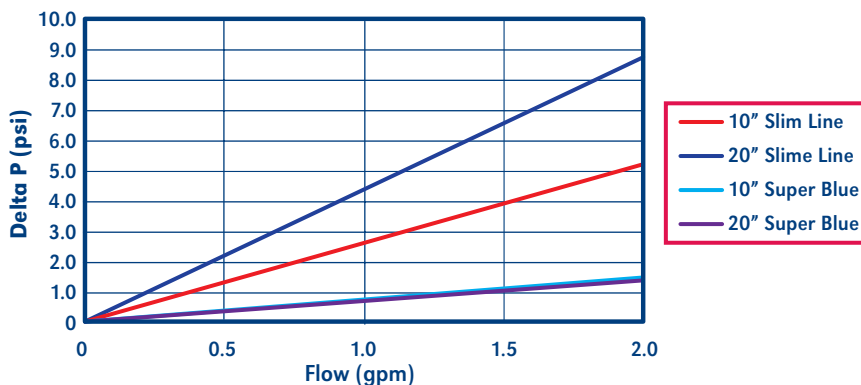
PP Polypropylene

ABS Acrylonitrile Butadiene Styrene

PE Polyester

TPE Thermoplastic Elastomer

## PHOSPHATE DELTA P



## MEDIA

As a division of ResinTech, Aries FilterWorks is the only integrated media and cartridge manufacturer providing added value of a premium product at the most competitive cost. Aries builds technology and knowledge of ion exchange and specialty adsorbents into each cartridge. Strict quality control over all aspects of cartridge production allows complete traceability of every filter.

## ORDERING GUIDE

PART NUMBER	MEDIA	PHOSPHATE FILL	STD. HOUSING DIAMETER X LENGTH	SERVICE FLOW RATE (GPM)	CAPACITY* (PPM)
AF-10-3323	Phosphate Crystals (Loose Fill)	12 oz.	2.5" x 10"	1.0	7,500
AF-10-3328		16 oz.	2.5" x 10"	1.0	10,000
AF-10-3324		18 oz.	2.5" x 10"	1.0	12,500
AF-10-3321		24 oz.	2.5" x 10"	1.0	15,000
AF-20-3322		32 oz.	2.5" x 20"	2.0	20,000
AF-10-3326-BB		48 oz.	4.5" x 10"	5.0	40,000
AF-20-3327-BB		80 oz.	4.5" x 20"	5.0	50,000

\* Capacity based on volume of phosphate



Notes: Ordering information subject to change without notice. Please verify all specifications prior to ordering.

To place an order call (856) 626-1550 or e-mail ariescs@ariesfilterworks.com

### IMPORTANT NOTICE TO USER:

The following is made in lieu of all other warranties expressed or implied. Manufacturer's and Seller's only obligation shall be to issue credit against the purchase or replacement of the equipment proved to be defective in material or workmanship. Neither Manufacturer nor Seller shall be liable for any injury, loss or damage, direct or indirect, special or consequential, arising out of the use of, misuse, or the inability to use such product. The information contained herein is based on technical data and tests which we believe to be reliable and is intended for use by persons having technical skill at their discretion and risk. Since conditions of use are outside ResinTech's control, we can assume no liability whatsoever for results obtained or damages incurred through the application of the data presented. This information is not intended as a license to operate under, or a recommendation to infringe upon, any patent of ResinTech's or others covering any material or use. The foregoing may not be altered except by written agreement signed by officers of the manufacturer.

DS-AFPhosphate-rev1.2



## AF SERIES

PH NEUTRALIZATION / CALCOR

### KEY FEATURES

- **PROPRIETARY BLEND OF COROSEX® AND CALCITE® MEDIAS**
- **CONTROLS pH CORROSION, AND ALLOWS MINERALIZATION**
- **PRE-TREATMENT OF RESIDENTIAL AND COMMERCIAL WATER**

### CALCOR NEUTRALIZATION

Aries FilterWorks Calcor Neutralization Cartridges are designed with a proprietary blend of Corosex® and Calcite®. The basic benefit of using Corosex® is that it dissolves much faster than Calcite®. If the initial pH is less than 6.0, Calcite® alone does not dissolve fast enough to correct pH to neutral. Blending the products, allows the pH to be corrected over a more effective range. Aries Calcor Cartridge specific blend helps to create a balanced product that will deliver a natural effluent without the negative impact of over correction.

### APPLICATIONS

#### COMMERCIAL USE -

Water can behave in a corrosive manner, which is a problem that needs to be considered during water treatment. Aries Calcor cartridges can be used to polish RO effluents and mineralize the product stream back to a balanced and healthy pH.

#### RESIDENTIAL USE -

If your water has a pH of < 7.0 it is considered acidic and it should be treated. With respect to the corrosion potential of drinking water, the primary concerns include the potential presence of toxic metals as well as deterioration and damage to the household plumbing. The pretreatment system typically used in applications for homeowners or small private water supplies should include a neutralizing filter.



### ABOUT CALCOR NEUTRALIZATION

pH is an indicator of the acid or alkaline condition of water. The pH scale ranges from 0-14; 7 indicates the theoretical neutral point. Neutralization cartridges act on acidic waters by slowly dissolving the calcium carbonate and magnesium oxide media as the water flows through the filter, raising the pH of the water and increasing the alkalinity. This eliminates the effects of corrosive water and can help to prevent corrosion of piping and fixtures.

The combination of Corosex® and Calcite® lessen the aggressive tendencies of acidic pH streams and their ability to leach metals from plumbing systems acidifier. Initial effluent may have a somewhat higher dissolution of product as it sits in intimate contact over time. The dissolution rate is multi-factorial and the result of water temperature, flow rate and specific water chemistry. This product is sacrificial so capacities will be specific to each application and variables mentioned above.

### FEATURES & BENEFITS

- **USE OF COROSEX® AND CALCITE®**  
Allows pH to correct over an extended range
- **FITS STANDARD RESIDENTIAL AND INDUSTRIAL SIZE HOUSINGS**  
AF Series cartridges are double-open end cartridges that fit standard residential and industrial housings
- **OVERSIZED CARTRIDGE FOR MAXIMUM MEDIA FILL**  
AF Series cartridges have up to 50% higher capacity and extend cartridge life, due to the use of larger cartridges
- **QUALITY PRODUCED AND MADE IN THE USA**  
Cartridges are produced by Aries FilterWorks, a division of ResinTech®. Strict quality control over all aspects of cartridge and media production allows complete traceability of every filter

# AF SERIES - pH NEUTRALIZATION / CALCOR®

## TECHNICAL DATA

	10" SLIM	20" SLIM	10" SUPER BLUE	20" SUPER BLUE
Diameter (in.)	3.0"	2.9"	4.6"	4.6"
Length (in.)	9.9"	20.0"	10.0"	20.0"
Temperature (°F.)				
Min.	40°	40°	40°	40°
Max.	100°	100°	100°	100°
Pressure (psi)				
Min.	20	20	20	20
Max.	125	125	125	125
Micron Rating (μ)	25	25	25	25
Materials of Construction				
① Gasket	TPE	TPE	TPE	TPE
② Cap	PP	ABS	ABS	ABS
③ Pad	PE	PE	PE	PE
④ Body / Tube	PP	ABS	ABS	ABS
⑤ Media*	Calcor® pH Neutralization Media			

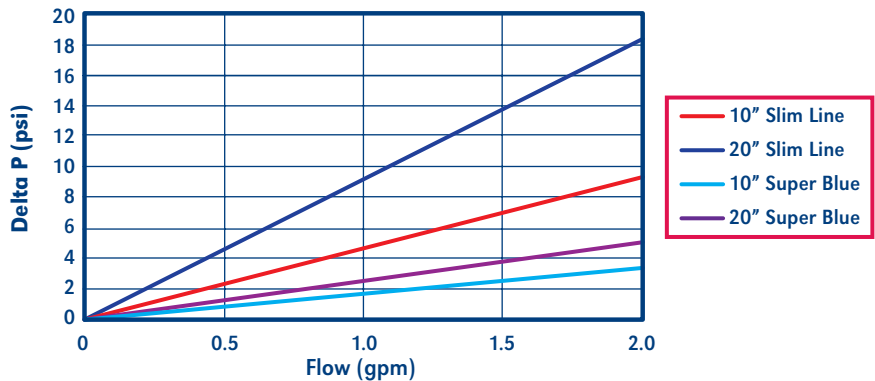
PP Polypropylene

ABS Acrylonitrile Butadiene Styrene

PE Polyester

TPE Thermoplastic Elastomer

## CALCITE DELTA P



## MEDIA

As a division of ResinTech, Inc.®, Aries FilterWorks is the only integrated water filtration media and cartridge manufacturer providing a premium product at the most competitive cost. Aries builds technology and knowledge of ion exchange and specialty adsorbents into each cartridge. Strict quality control over all aspects of cartridge production allows complete traceability of every filter.

## ORDERING GUIDE

PART NUMBER	MEDIA	STANDARD HOUSING DIAMETER X LENGTH	SERVICE FLOW RATE (GPM)	CAPACITY (GALLONS)
AF-10-3232	Calcor® pH Neutralization Media	2.5" x 10"	0.5	7,500
AF-20-3232		2.5" x 20"	1.0	13,000
AF-10-3232-BB		4.5" x 10"	1.5	15,000
AF-20-3232-BB		4.5" x 20"	3.0	36,000



Notes: Ordering information subject to change without notice. Please verify all specifications prior to ordering.

To place an order call (856) 626-1550 or e-mail ariescs@ariesfilterworks.com

### IMPORTANT NOTICE TO USER:

The following is made in lieu of all other warranties expressed or implied. Manufacturer's and Seller's only obligation shall be to issue credit against the purchase or replacement of the equipment proved to be defective in material or workmanship. Neither Manufacturer nor Seller shall be liable for any injury, loss or damage, direct or indirect, special or consequential, arising out of the use of, misuse, or the inability to use such product. The information contained herein is based on technical data and tests which we believe to be reliable and is intended for use by persons having technical skill at their discretion and risk. Since conditions of use are outside ResinTech's control, we can assume no liability whatsoever for results obtained or damages incurred through the application of the data presented. This information is not intended as a license to operate under, or a recommendation to infringe upon, any patent of ResinTech's or others covering any material or use. The foregoing may not be altered except by written agreement signed by officers of the manufacturer.

DS-AFCalcor-rev1.1

**AF SERIES**

SOFTENER

**KEY FEATURES**

- **MEDIA IS RESINTECH CGS® HIGH PURITY MEDIA**
- **MEDIA MEETS NSF/ANSI 44 CERTIFICATION**
- **FITS STANDARD RESIDENTIAL AND INDUSTRIAL HOUSINGS**

**SOFTENER CARTRIDGES**

The Aries AF Series softener cartridge uses ResinTech® CGS, a cation exchange softening grade resin for softening applications. ResinTech® CGS is a high capacity gel type sulfonated polystyrene cation resin. The media is supplied in the sodium form as moist, durable uniform spherical beads. It is intended for use in water softening applications, where free chlorine is not present. Its unique ability to exchange positively charged ions also enable it to remove dissolved iron.

**APPLICATIONS****RESIDENTIAL USE -**

Spotting on dishes, films that coat the shower walls, laundry that is stiff and rough, and clogged plumbing are all the result of hard water conditions. In addition to affecting the actual washing process, insoluble soap deposits are left on surfaces and a soap film will continue to build up in your bath and shower. Water softeners provide a solution by removing the calcium and magnesium and providing a cleaner final product.

**COMMERCIAL -**

Hard water also produces a scale, which clogs pipes and obstructs heat conduction. Water softeners are commonly used for industrial, municipal, and commercial applications such as: contact process water, make up water for boiler & reactors, laundry facilities, protection of heat transfer elements and spray nozzles, and pre-treatment for reverse osmosis.

**ABOUT SOFTENING**

As the water seeps through the ground, it is naturally purified, but dissolves minerals from contact with surrounding rock formations. Alkaline or "hard" water contains high levels of dissolved salts and minerals such as calcium and magnesium. The dissolved salts react with soaps and detergents, preventing lathering and interfere with the cleaning process. Calcium and magnesium deposits can build up in pipes, reducing flow to taps and appliances. Soft water, on the other hand, has very little of these minerals. Softening cartridges makes use of the ion exchange principle. As the water travels through the bed of ion exchange material, the hardness minerals are removed, leaving the water soft and more satisfactory for household and commercial use.

**FEATURES & BENEFITS**

- **USE OF RESINTECH® CGS MEDIA**

ResinTech® uses cation resin supplied in a sodium form as moist, durable uniform spherical beads. ResinTech® CGS is WQA Gold Seal certified to NSF/ANSI 44 Standards

- **FITS STANDARD RESIDENTIAL AND INDUSTRIAL SIZE HOUSING**

AF Series cartridges are double-open end cartridges that fit standard residential and industrial housings

- **OVERSIZED CARTRIDGE FOR MAXIMUM MEDIA FILL**

AF Series cartridges have up to 50% higher capacity and extend cartridge life, due to the use of larger cartridges

- **QUALITY PRODUCED AND MADE IN THE USA**

To ensure consistent quality and peace of mind for the consumer all drinking water media are WQA Gold Seal or NSF certified. Cartridges are produced by Aries FilterWorks, a division of ResinTech®. Strict quality control over all aspects of production allows complete traceability of every cartridge



# AF SERIES - SOFTENER

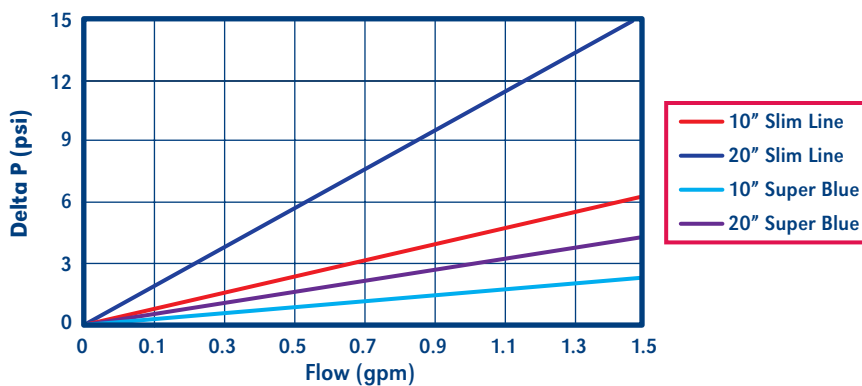
## TECHNICAL DATA

	10" SLIM	20" SLIM	10" SUPER BLUE	20" SUPER BLUE
Diameter (in.)	3.0"	2.9"	4.6"	4.6"
Length (in.)	9.9"	20.0"	10.0"	20.0"
Temperature (°F.)				
Min.	40°	40°	40°	40°
Max.	100°	100°	100°	100°
Pressure (psi)				
Min.	20	20	20	20
Max.	125	125	125	125
Micron Rating (μ)	25	25	25	25
Materials of Construction				
① Gasket	TPE	TPE	TPE	TPE
② Cap	PP	ABS	ABS	ABS
③ Pad	PE	PE	PE	PE
④ Body / Tube	PP	ABS	ABS	ABS
⑤ Media*	ResinTech® Premium CGS Cation Resin*			

PP Polypropylene  
ABS Acrylonitrile Butadiene Styrene

PE Polyester  
TPE Thermoplastic Elastomer

## SOFTENER DELTA P



## MEDIA

As a division of ResinTech, Aries FilterWorks is the only integrated media and cartridge manufacturer providing added value of a premium product at the most competitive cost. Aries builds technology and knowledge of ion exchange and specialty adsorbents into each cartridge. Strict quality control over all aspects of cartridge production allows complete traceability of every filter.

## ORDERING GUIDE

PART NUMBER	MEDIA	STANDARD HOUSING DIAMETER X LENGTH	SERVICE FLOW RATE (GPM)	CAPACITY (GRAINS)
AF-10-3003		2.5" x 10"	0.5	1,414
AF-20-3003	ResinTech®	2.5" x 20"	.75	2,520
AF-10-3003-BB	CGS Cation Resin	4.5" x 10"	.75	2,858
AF-20-3003-BB		4.5" x 20"	2.0	6,295



\*ResinTech® CGS  
WQA/NSF 44 Gold Seal Certified  
for Material Safety.



Notes: Ordering information subject to change without notice. Please verify all specifications prior to ordering.

To place an order call (856) 626-1550 or e-mail ariescs@ariesfilterworks.com

### IMPORTANT NOTICE TO USER:

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DS-AFSoftener-rev1.3



## AF SERIES

SCALE, TASTE & ODOR REDUCTION

### KEY FEATURES

- **MEDIA IS RESINTECH® MBD-80 MIXED BED MEDIA**
- **REMOVES CHLORINE AND ENHANCES TASTE OF DRINKING WATER**
- **FITS STANDARD RESIDENTIAL AND INDUSTRIAL HOUSINGS**

### SCALE, TASTE & ODOR CARTRIDGES

Aries FilterWorks offers a propriety blend of a high capacity weak acid ion exchange resin to reduce calcium and magnesium and with granular activated carbon maximize the removal of chlorine. The ion exchange media reduces hardness associated with alkalinity preventing water scale formation. Granular activated carbon (GAC) that has been specially prepared for use in drinking water filters removes chlorine and enhances the quality and taste of the drinking water. The media is buffered to provide pH balance.

### APPLICATIONS

#### RESIDENTIAL USE -

These cartridges are an effective way to provide clean water for drinking water, juices, coffee, and teas. Additionally, the water can be used to prepare foods and mix infant formula. It eliminates the need for costly bottled water and bottled water services. Aries FilterWorks cartridges can reduce or eliminate taste and odor due to municipal chlorination and decrease metals that may be in city, well water or distribution systems.

#### COMMERCIAL USE -

These cartridges are as an effective pretreatment of supply water to commercial grade brewing machines, ice makers, and beverage dispensing equipment and water misters. Coffee and espresso machines benefit from the reduction of scale formation on heating elements, thus improving the efficiency of the machine and avoiding expensive service calls.

### ABOUT SCALE, TASTE AND ODOR REMOVAL

Water is a good solvent and picks up impurities easily. As water moves through soil and rock, it dissolves minerals and holds them in solution. Calcium and magnesium dissolved in water are the two most common minerals that make water "hard." The minerals responsible for hard water tend to form insoluble salts, also known as scale. Formation of scale on heating elements reduces the efficiency of small machines. A point of use cartridge removes scales by use of a weak acid ion exchange resin and in combination with GAC, removes chlorine to improve taste and odor.

### FEATURES & BENEFITS

- **USE OF RESINTECH® MBD-80 MIXED BED MEDIA**  
A high capacity weak acid ion exchange resin reduces scale, improves taste and odor as well as the reduction of some heavy metals
- **FITS STANDARD RESIDENTIAL AND INDUSTRIAL SIZE HOUSING**  
AF Series cartridges are double-open end cartridges that fit standard residential and industrial housings
- **OVERSIZED CARTRIDGE FOR MAXIMUM MEDIA FILL**  
AF Series cartridges have up to 50% higher capacity and extend cartridge life, due to the use of larger cartridges
- **QUALITY PRODUCED AND MADE IN THE USA**  
Cartridges are produced by Aries FilterWorks, a division of ResinTech®. Strict quality control over all aspects of cartridge and media production allows complete traceability of every filter

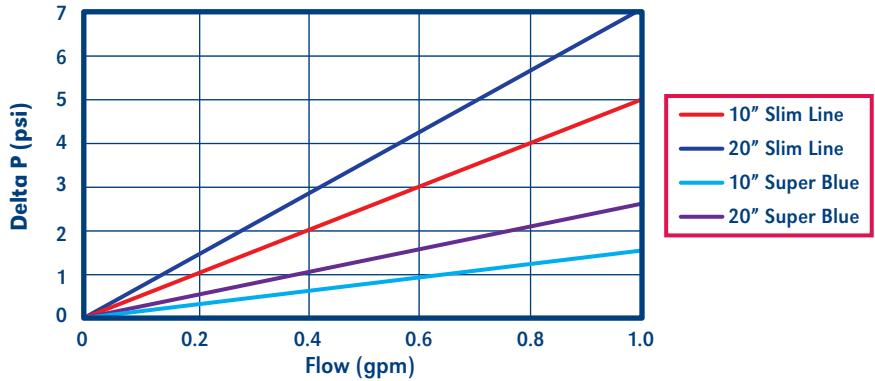


# AF SERIES - SCALE, TASTE AND ODOR REMOVAL

## TECHNICAL DATA

	10" SLIM	20" SLIM	10" SUPER BLUE	20" SUPER BLUE
Diameter (in.)	3.0"	2.9"	4.6"	4.6"
Length (in.)	9.9"	20.0"	10.0"	20.0"
Temperature (°F.)				
Min.	40°	40°	40°	40°
Max.	100°	100°	100°	100°
Pressure (psi)				
Min.	20	20	20	20
Max.	125	125	125	125
Micron Rating (μ)	25	25	25	25
Materials of Construction				
① Gasket	TPE	TPE	TPE	TPE
② Cap	PP	ABS	ABS	ABS
③ Pad	PE	PE	PE	PE
④ Body / Tube	PP	ABS	ABS	ABS
⑤ Media*	ResinTech® Premium MBD-80 Mixed Bed Media			
PP	Polypropylene		PE	Polyester
ABS	Acrylonitrile Butadiene Styrene		TPE	Thermoplastic Elastomer

## MIXED BED DELTA P



## MEDIA

As a division of ResinTech, Inc.®, Aries FilterWorks is the only integrated water filtration media and cartridge manufacturer providing a premium product at the most competitive cost. Aries builds technology and knowledge of ion exchange and specialty adsorbents into each cartridge. Strict quality control over all aspects of cartridge production allows complete traceability of every filter.

## ORDERING GUIDE

PART NUMBER	MEDIA	STANDARD HOUSING DIAMETER X LENGTH	MAXIMUM FLOW RATE (GPM)	CAPACITY (GALLONS)
AF-10-4080		2.5" x 10"	0.3	330
AF-20-4080	ResinTech® MBD-80	2.5" x 20"	0.6	600
AF-10-4080-BB	Mixed Bed Media	4.5" x 10"	0.5	680
AF-20-4080-BB		4.5" x 20"	1.5	1,500



Notes: Ordering information subject to change without notice. Please verify all specifications prior to ordering.

To place an order call (856) 626-1550 or e-mail ariescs@ariesfilterworks.com

### IMPORTANT NOTICE TO USER:

DS-AFTaste/Odor-rev1.2

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## AF SERIES

ARSENIC REMOVAL

### KEY FEATURES

- **HIGHEST ARSENIC REMOVAL CAPACITY**
- **ASM-10-HP MEDIA IS WQA GOLD NSF/ANSI 61 CERTIFIED**
- **FITS STANDARD RESIDENTIAL AND INDUSTRIAL HOUSINGS**

### ARSENIC REMOVAL CARTRIDGES

Arsenic reduction is achieved by utilizing the advanced media technology of ResinTech® ASM-10-HP resin. This Arsenic selective media has unsurpassed capacity and is effective over the entire pH range of potable water. ResinTech® ASM-10-HP is a strongly basic hybrid anion exchange resin, specially formulated to selectively remove arsenic.\*

\* Although ResinTech® ASM-10-HP has modest removal of Arsenite ( $As^3$ ), it is suggested to use additional oxidation methods such as pre-chlorination to convert to Arsenate ( $As^5$ ). For specific throughput and performance please contact your local sales representative.

### APPLICATIONS

#### RESIDENTIAL POINT OF USE (POU) DRINKING WATER SYSTEM -

The EPA has defined as acceptable or safe a limit of 10 ppb for arsenic in drinking water. If laboratory testing indicates levels above 10 ppb, the use of a specific arsenic removal cartridge is indicated, due to the contamination of source water.

#### PRIVATE WELLS POINT OF ENTRY (POE) -

Well water is particularly susceptible to arsenic, those not connected to municipal drinking water systems may want to consider this option as part of a whole house system. Wells supply 15% of American populations with drinking water, and these wells are not subject to EPA regulations. These wells provide safe clean water, but occasionally can become contaminated, resulting in illness.

### ABOUT ARSENIC

Arsenic occurs naturally in soil and bedrock in many parts of the United States. Arsenic has no smell, taste, or color when dissolved in water, even in high concentrations, and therefore only laboratory analysis can determine the presence and concentration of arsenic in water. Arsenic is a potential concern to those who live in areas; with high natural deposits of arsenic, receive runoff from orchards, or from glass and electronic production waste. The health effects of arsenic depend on its chemical form, how much is consumed, and for how long. Long-term exposure to arsenic can cause a number of harmful effects on the human body.

### FEATURES & BENEFITS

#### • USE OF RESINTECH® ASM-10-HP MEDIA

The initial capture of arsenate is by ion exchange, thus the removal rate of arsenic from the inlet liquid is much faster than ordinary iron based media. Its strong base exchange functionality can be used to simultaneously remove nitrate, uranium, chromate and other objectionable anions while removing arsenate

#### • FDA DRINKING WATER APPROVED MATERIALS OF CONSTRUCTION

Sonic welded construction is a solvent free method to join and assemble plastic parts, producing the highest quality safest product

#### • FITS STANDARD RESIDENTIAL AND INDUSTRIAL SIZE HOUSING

AF Series cartridges are double-open end cartridges that fit standard residential and industrial housings

#### • OVERSIZED CARTRIDGE FOR MAXIMUM MEDIA FILL

AF Series cartridges have up to 50% higher capacity and extend cartridge life, due to the use of larger cartridges

#### • QUALITY PRODUCED AND MADE IN THE USA

To ensure consistent quality and peace of mind for the consumer all drinking water media are WQA Gold Seal or NSF certified. Cartridges are produced by Aries FilterWorks, a division of ResinTech®. Strict quality control over all aspects of production allows complete traceability of every cartridge

\* Consult your representative for additional usage information



# AF SERIES - ARSENIC REMOVAL

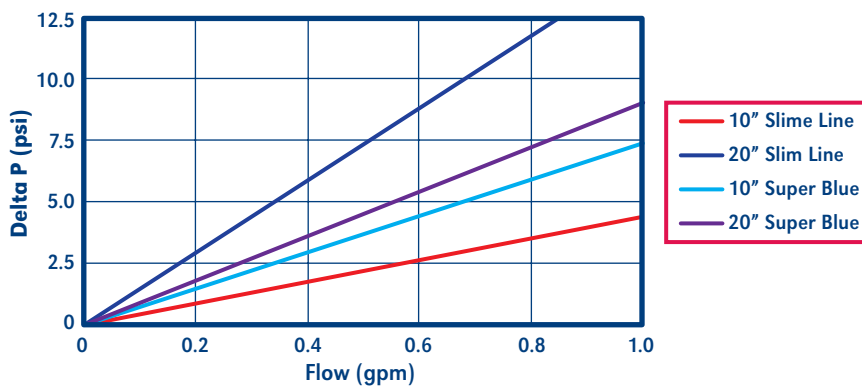
## TECHNICAL DATA

	10" SLIM	20" SLIM	10" SUPER BLUE	20" SUPER BLUE
Diameter (in.)	3.0"	2.9"	4.6"	4.6"
Length (in.)	9.9"	20.0"	10.0"	20.0"
Temperature (°F.)				
Min.	40°	40°	40°	40°
Max.	100°	100°	100°	100°
Pressure (psi)				
Min.	20	20	20	20
Max.	125	125	125	125
Micron Rating (μ)	25	25	25	25
Materials of Construction				
① Gasket	TPE	TPE	TPE	TPE
② Cap	PP	ABS	ABS	ABS
③ Pad	PE	PE	PE	PE
④ Body / Tube	PP	ABS	ABS	ABS
⑤ Media*	ResinTech® ASM-10-HP Hybrid Anion Resin*			

PP Polypropylene  
ABS Acrylonitrile Butadiene Styrene

PE Polyester  
TPE Thermoplastic Elastomer

## ARSENIC DELTA P



## MEDIA

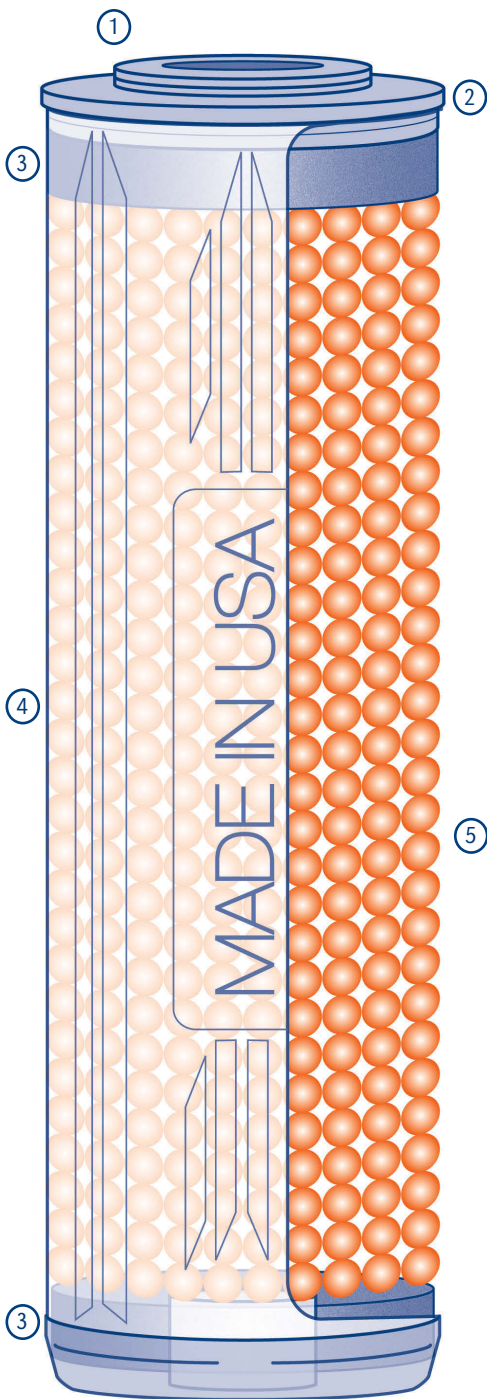
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## ORDERING GUIDE

PART NUMBER	MEDIA	STANDARD HOUSING DIAMETER X LENGTH	MAXIMUM FLOW RATE (GPM)	CAPACITY (GALLONS)
AF-10-3695		2.5" x 10"	.25	2,000
AF-20-3695	ResinTech® ASM-10-HP	2.5" x 20"	0.5	4,000
AF-10-3695-BB	Hybrid Anion Resin	4.5" x 10"	0.5	4,500
AF-20-3695-BB		4.5" x 20"	1.0	9,000

Specific feed contaminants and pH can effect capacity

Disposal - It is recommended that users review local regulations and consult with local authorities on the best method of disposal. Cartridges pass the Toxicity Characteristic Leaching Procedures (TCLP) according to the EPA



\*ResinTech® ASM-10-HP  
WQA/NSF 61 Gold Seal Certified  
for Material Safety.



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To place an order call (856) 626-1550 or e-mail ariescs@ariesfilterworks.com

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DS-AFArsenic-rev1.3



## AF SERIES

NITRATE REMOVAL

### KEY FEATURES

- **HIGH CAPACITY RESINTECH® SIR-100-HP NITRATE SELECTIVE MEDIA**
- **MEDIA IS WQA GOLD SEAL NSF/ANSI 61 CERTIFIED**
- **FITS STANDARD RESIDENTIAL AND INDUSTRIAL HOUSINGS**

### NITRATE REMOVAL CARTRIDGES

The Aries AF Series cartridges provides effective nitrate removal by the utilization of ResinTech® SIR-100-HP resin. Its unique functionality offers twenty five times greater affinity than standard strong-based anion resins. This cartridge removes nitrates efficiently with low leakage, and eliminates the possibility of nitrate dumping upon exhaustion.

### APPLICATIONS

#### DRINKING WATER -

If laboratory testing indicates elevated levels of nitrates; the use of a nitrate removal cartridge is beneficial to further purify the municipal water source.

#### PRIVATE WELLS -

Supply 15% of American populations with drinking water, and these wells are not subject to EPA regulations. These wells provide safe clean water, but occasionally can become contaminated, resulting in illness. It is the responsibility of the well owner to maintain and treat their wells.

#### TARGETED REMOVAL FOR SPECIFIC ENVIRONMENTAL CONDITIONS -

The nitrate removal cartridge is especially useful, due to its ability to remove nitrates preferentially in the presence of sulfates and other divalent ions.



### ABOUT NITRATES

Nitrates are naturally occurring compounds that are formed when organic matter decomposes in nature. Nitrates are colorless, odorless and tasteless compounds and cannot be detected unless water samples are laboratory tested.

The primary inorganic nitrates that may contaminate drinking water are potassium and ammonium nitrate both widely used in lawn and garden fertilizers. Most nitrogenous materials in natural waters tend to convert to nitrate so all sources of combined nitrogen; particularly organic nitrogen and ammonium should be considered as potential sources of contamination

The EPA defines maximum contaminant level(MCL) allowed in drinking water to be 10 mg/L NO<sub>3</sub>-N or 45 mg/NO<sub>3</sub>. Certain populations should monitor nitrate levels to insure they do not suffer any ill health effects.

### FEATURES & BENEFITS

- **RESINTECH® SIR-100-HP MEDIA CERTIFIED BY WATER QUALITY ASSOCIATION (WQA)**

AF Series nitrate selective resin is WQA Gold Seal Certified and meets NSF/ANSI 61 guidelines. ResinTech® SIR-100-HP the highest operating capacity of any nitrate selective resin. ResinTech® SIR-100-HP is uniform particle size, low-pressure drop and has superior physical stability

- **FITS STANDARD RESIDENTIAL AND INDUSTRIAL SIZE HOUSINGS**

AF Series cartridges are double-open end cartridges that fit standard residential and industrial housings

- **OVERSIZED CARTRIDGES FOR MAXIMUM MEDIA FILL**

AF Series cartridges have up to 50% higher capacity and extended life, due to the use of larger cartridges

- **QUALITY PRODUCED AND MADE IN THE USA**

To ensure consistent quality and peace of mind for the consumer all drinking water media are WQA Gold Seal or NSF certified. Cartridges are produced by Aries FilterWorks, a division of ResinTech®. Strict quality control over all aspects of production allows complete traceability of every cartridge

# AF SERIES - NITRATE REMOVAL CARTRIDGES

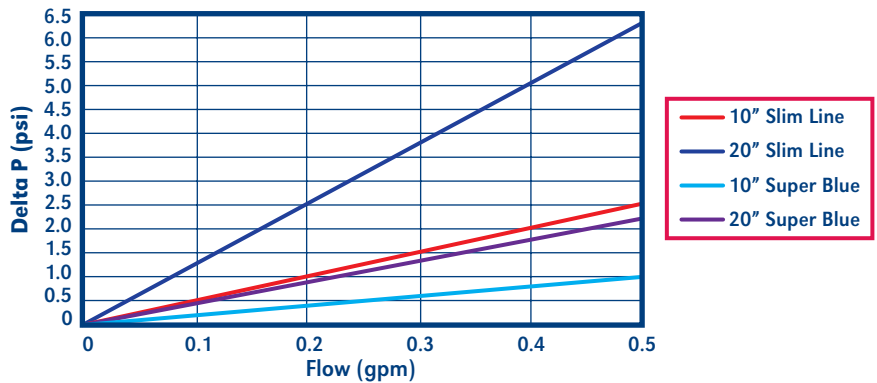
## TECHNICAL DATA

	10" SLIM	20" SLIM	10" SUPER BLUE	20" SUPER BLUE
Diameter (in.)	3.0"	2.9"	4.6"	4.6"
Length (in.)	9.9"	20.0"	10.0"	20.0"
Temperature (° F.)				
Min.	40°	40°	40°	40°
Max	100°	100°	100°	100°
Pressure (psi)				
Min.	20	20	20	20
Max.	125	125	125	125
Micron Rating (µ)	25	25	25	25
Materials of Construction				
① Gasket	TPE	TPE	TPE	TPE
② Cap	PP	ABS	ABS	ABS
③ Pad	PE	PE	PE	PE
④ Body / Tube	PP	ABS	ABS	ABS
⑤ Media*	ResinTech® SIR-100-HP Nitrate selective ion exchange resin*			

PP Polypropylene  
ABS Acrylonitrile Butadiene Styrene

PE Polyester  
TPE Thermoplastic Elastomer

## DELTA P



## MEDIA

As a division of ResinTech, Inc.®, Aries FilterWorks is the only integrated water filtration media and cartridge manufacturer providing a premium product at the most competitive cost. Aries builds technology and knowledge of ion exchange and specialty adsorbents into each cartridge. Strict quality control over all aspects of cartridge production allows complete traceability of every filter.

## ORDERING GUIDE

PART NUMBER	MEDIA	STANDARD HOUSING DIAMETER X LENGTH	SERVICE FLOW RATE (GPM)	CAPACITY (GRAINS)
AF-10-3610	ResinTech® SIR-100-HP	2.5" x 10"	0.1	475
AF-20-3610		2.5" x 20"	.25	1,100
AF-10-3610-BB	Nitrate Selective Ion Exchange Resin	4.5" x 10"	.25	1,200
AF-20-3610-BB		4.5" x 20"	0.5	2,500



\*ResinTech® SIR-100-HP  
WQA/NSF 61 Gold Seal Certified  
for Material Safety.



Notes: Ordering information subject to change without notice. Please verify all specifications prior to ordering.

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DS-AFNitrate-rev1.2



## AF SERIES

TANNINS/ORGANICS REMOVAL

### KEY FEATURES

- **RESINTECH® SBACR MEDIA HAS HIGH CAPACITY FOR ORGANICS**
- **SUPERIOR PHYSICAL STABILITY TO RESIST BEAD BREAKAGE**
- **IMPROVES THE COLOR AND TASTE OF POTABLE WATER SUPPLIES**

### TANNINS/ORGANICS REMOVAL CARTRIDGES

Aries FilterWorks uses ResinTech® SBACR anion exchange resin to remove Tannins and other organics. This media is a high capacity, strongly basic anion resin, supplied in chloride or hydroxide form. The high water content and acrylic structure contribute to its greater capacity for removal in applications where elevated levels of organics are expected.

### APPLICATIONS

#### COMMERCIAL USE -

Tannin removal is highly recommended for use in multiple and mixed bed deionizers, wherever complete ion removal and organic fouling resistance is required. Tannins can prevent iron oxidation. Water softeners, aeration systems, and iron filters may not perform to capacity.

#### RESIDENTIAL USE -

Tannins and similar naturally occurring organics cause most of the color in potable water. They tend to discolor water and give it a bitter taste. They are not toxic and are harmless to humans. However, their presence can make well water unpleasant to drink and stain laundry. For this reason, people seek to treat their water supply for this issue.



### ABOUT TANNINS/ORGANICS

Tannins are organic matter that cause a yellow to dark tea color in water and may impart taste and odor. This effect is caused by a variety of humic and fulvic organic acids, which are found in waters influenced by rainfall, and runoff from natural soil and peats into streams, rivers and lakes. Tannins have also been found in deep groundwater wells.

The structure of the tannin varies from location to location, depending on the vegetation in the area. Tannins are not directly regulated by a governmental agency, however there is a secondary drinking water standard of 15 alpha units for color. A secondary drinking water standard is not federally enforced. Tannins are not a health issue; however, they are aesthetically displeasing.

### FEATURES & BENEFITS

- **USE OF RESINTECH SBACR® ANION EXCHANGE RESIN**

High water content and acrylic structure gives greater capacity in applications where high organic levels are expected

- **FITS STANDARD RESIDENTIAL AND INDUSTRIAL SIZE HOUSING**

AF Series cartridges are double-open end cartridges that fit standard residential and industrial housings

- **OVERSIZED CARTRIDGE FOR MAXIMUM MEDIA FILL**

AF Series cartridges have up to 50% higher capacity and extend cartridge life, due to the use of larger cartridges

- **QUALITY PRODUCED AND MADE IN THE USA**

Cartridges are produced by Aries FilterWorks, a division of ResinTech®. Strict quality control over all aspects of cartridge and media production allows complete traceability of every filter

# AF SERIES - TANNINS/ORGANICS REMOVAL

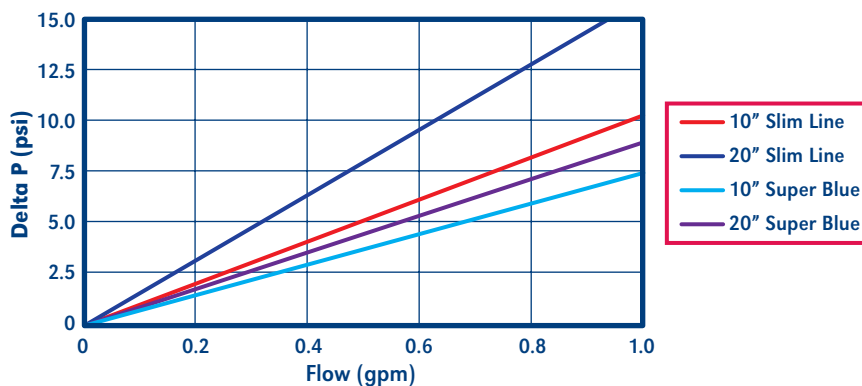
## TECHNICAL DATA

	10" SLIM	20" SLIM	10" SUPER BLUE	20" SUPER BLUE
Diameter (in.)	3.0"	2.9"	4.6"	4.6"
Length (in.)	9.9"	20.0"	10.0"	20.0"
Temperature (°F.)				
Min.	40°	40°	40°	40°
Max.	100°	100°	100°	100°
Pressure (psi)				
Min.	20	20	20	20
Max.	125	125	125	125
Micron Rating (μ)	25	25	25	25
Materials of Construction				
① Gasket	TPE	TPE	TPE	TPE
② Cap	PP	ABS	ABS	ABS
③ Pad	PE	PE	PE	PE
④ Body / Tube	PP	ABS	ABS	ABS
⑤ Media*	ResinTech® Premium SBACR Strong Base Anion Resin			

PP Polypropylene  
ABS Acrylonitrile Butadiene Styrene

PE Polyester  
TPE Thermoplastic Elastomer

## TANNINS/ORGANICS DELTA P



## MEDIA

As a division of ResinTech, Inc.®, Aries FilterWorks is the only integrated water filtration media and cartridge manufacturer providing a premium product at the most competitive cost. Aries builds technology and knowledge of ion exchange and specialty adsorbents into each cartridge. Strict quality control over all aspects of cartridge production allows complete traceability of every filter.

## ORDERING GUIDE

PART NUMBER	MEDIA	STANDARD HOUSING DIAMETER X LENGTH	SERVICE FLOW RATE (GPM)	CAPACITY GALLONS	CAPACITY GRAINS
AF-10-3621	ResinTech® SBACR Strong Base Anion Resin	2.5" x 10"	0.3	150	930
AF-20-3621		2.5" x 20"	0.6	280	1,654
AF-10-3621-BB		4.5" x 10"	0.5	300	1,880
AF-20-3621-BB		4.5" x 20"	1.5	700	4,142



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DS-AFTannins/Organics-rev1.3



## AF SERIES

### PERCHLORATE REMOVAL

#### KEY FEATURES

- **RESINTECH® SIR-110-HP GIVES HIGHEST PERCHLORATE SELECTIVITY**
- **MEDIA MEETS NSF/ANSI 61 CERTIFICATION**
- **SUPERIOR PHYSICAL STABILITY AND LOWER PRESSURE DROP**

#### PERCHLORATE REMOVAL CARTRIDGES

Aries FilterWorks cartridge uses ResinTech® SIR-110-HP, a strong base anion resin. It exhibits an unusually high preference for perchlorate and a low affinity for multivalent ions. This media is supplied in chloride form as a moist, durable, uniform spherical bead.

ResinTech® SIR-110-HP essentially eliminates all monovalent “dumping” making it useful in nitrate removal applications. The perchlorate operating capacity is virtually unaffected by the presence of sulfates.

#### APPLICATIONS

##### COMMERCIAL USE -

Perchlorates are the salts derived from perchloric acid (HClO<sub>4</sub>). They occur both naturally and as a by-product of manufacturing. Improper disposal of perchlorate-containing compounds are increasingly being found in groundwater and local drinking water. Where indicated a specific filter, that targets perchlorate removal should be considered.

##### RESIDENTIAL USE -

Low levels of perchlorate have been detected in both drinking water and groundwater in 35 states in the US according to the Environmental Protection Agency. If elevated levels are detected, a recognized laboratory should do testing for perchlorates, and use of a perchlorate filter should be considered. Currently, there are no enforceable perchlorate safety standards. The EPA's protective health level for perchlorate in drinking water is a dose estimate of less than 1 ppb.

#### ABOUT PERCHLORATES

Perchlorate salts, such as ammonium perchlorate and potassium perchlorate, are man-made compounds used as combustion accelerants, primarily in solid-fueled rockets and missiles. It can also be found in some munitions, fireworks, and road flares and is even thought to exist naturally in some nitrate-based fertilizer products.

Manufacturing waste and improper disposal of perchlorate containing compounds are increasingly being found in groundwater and local drinking water wells. Perchlorate is one of a newly recognized group of toxins called endocrine disrupters, which can alter hormonal levels, by interfering with iodide uptake in the thyroid gland. The US Environmental Protection Agency, federal agencies and local governments are currently assessing the potential human health risks posed by perchlorate exposure.

#### FEATURES & BENEFITS

- **RESINTECH® SIR-100-HP MEDIA CERTIFIED BY WATER QUALITY ASSOCIATION (WQA)**

AF Series perchlorate selective resin is WQA Gold Seal Certified and meets NSF/ANSI 61 guidelines and cartridge. ResinTech® SIR-110-HP has the highest operating capacity of any perchlorate selective resin. ResinTech® SIR-110-HP is uniform particle size, low-pressure drop and has superior physical stability

- **FITS STANDARD RESIDENTIAL AND INDUSTRIAL SIZE HOUSING**

AF Series cartridges are double-open end cartridges that fit standard residential and industrial housings

- **OVERSIZED CARTRIDGE FOR MAXIMUM MEDIA FILL**

AF Series cartridges have up to 50% higher capacity and extend cartridge life, due to the use of larger cartridges

- **QUALITY PRODUCED AND MADE IN THE USA**

To ensure consistent quality and peace of mind for the consumer all drinking water media are WQA Gold Seal or NSF certified. Cartridges are produced by Aries FilterWorks, a division of ResinTech®. Strict quality control over all aspects of production allows complete traceability of every cartridge



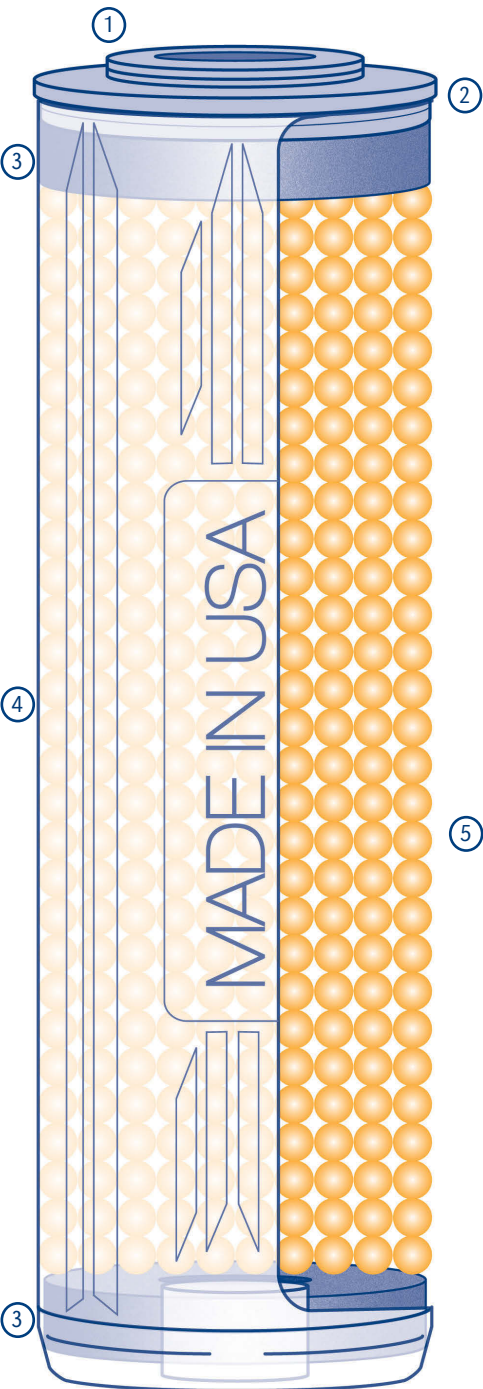
# AF SERIES - PERCHLORATE REMOVAL

## TECHNICAL DATA

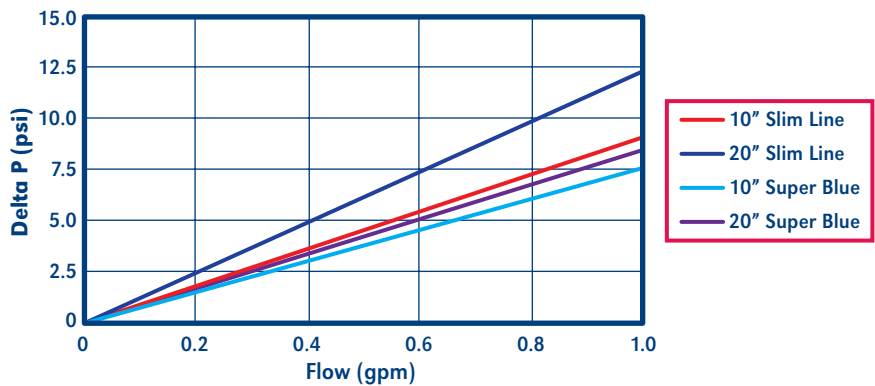
	10" SLIM	20" SLIM	10" SUPER BLUE	20" SUPER BLUE
Diameter (in.)	3.0"	2.9"	4.6"	4.6"
Length (in.)	9.9"	20.0"	10.0"	20.0"
Temperature (°F.)				
Min.	40°	40°	40°	40°
Max.	100°	100°	100°	100°
Pressure (psi)				
Min.	20	20	20	20
Max.	125	125	125	125
Micron Rating (μ)	25	25	25	25
Materials of Construction				
① Gasket	TPE	TPE	TPE	TPE
② Cap	PP	ABS	ABS	ABS
③ Pad	PE	PE	PE	PE
④ Body / Tube	PP	ABS	ABS	ABS
⑤ Media*	ResinTech® Premium SIR-110-HP Anion Resin*			

PP Polypropylene  
ABS Acrylonitrile Butadiene Styrene

PE Polyester  
TPE Thermoplastic Elastomer



## PERCHLORATE DELTA P



## MEDIA

As a division of ResinTech, Inc.®, Aries FilterWorks is the only integrated water filtration media and cartridge manufacturer providing a premium product at the most competitive cost. Aries builds technology and knowledge of ion exchange and specialty adsorbents into each cartridge. Strict quality control over all aspects of cartridge production allows complete traceability of every filter.

## ORDERING GUIDE

PART NUMBER	MEDIA	STANDARD HOUSING DIAMETER X LENGTH	SERVICE FLOW RATE (GPM)	CAPACITY (GRAINS)
AF-10-3611		2.5" x 10"	0.1	595
AF-20-3611	ResinTech® Premium	2.5" x 20"	0.2	1,059
AF-10-3611-BB	SIR-110-HP Anion Resin	4.5" x 10"	0.2	1,200
AF-20-3611-BB		4.5" x 20"	0.5	2,650



\*ResinTech® SIR-110-HP  
WQA/NSF 61 Gold Seal Certified  
for Material Safety.



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DS-AFPerchlorate-rev1.2




**ARIES**  
 FILTERWORKS

## AF SERIES

FLUORIDE REMOVAL

### KEY FEATURES

- **USE OF RESINTECH® PREMIUM HIGH CAPACITY SIR-900 MEDIA**
- **EFFECTIVE OVER A WIDE pH RANGES**
- **SUPERIOR PHYSICAL STABILITY AND LOWER PRESSURE DROP**

### FLUORIDE REMOVAL CARTRIDGES

Fluoride removal is achieved by utilizing the advanced media technology of ResinTech® SIR-900 media. AF Series cartridges remove Fluoride by a chemical reaction with the media. ResinTech® SIR-900 is a synthetic aluminum oxide that is specially processed to have minimum fines and other foreign matter. It has minimal shrinkage /swelling and low-pressure loss. The product is physically stable and can be used over a wide pH range.

### APPLICATIONS

#### DRINKING WATER -

Consumers, who are concerned about fluoride in the municipal water supply for health reasons and require its removal, can benefit by the use of a fluoride removal cartridge at the Point of Use (POU).

#### PRIVATE WELLS -

Some areas of the country have high levels of naturally occurring fluoride. Wells Supply 15% of American populations with drinking water, and these wells are not subject to EPA regulations. These wells provide safe clean water, but occasionally can become contaminated, resulting in illness.

### ABOUT FLUORIDE

Fluoride can occur in drinking water naturally as a result of the geological composition of soils and bedrock. Most water supplies contain some naturally occurring fluoride. Fluoride also enters drinking water in discharge from fertilizer or aluminum factories. The decision to fluoridate a water supply is made by the State or local municipality. EPA has set the level of protection for fluoride at 4.0 mg/L or 4.0 ppm, to prevent potential health risk.

Exposures to fluoride have increased since the early 1960s. At that time, drinking water and food and beverages prepared with fluoridated water accounted for nearly an individual's entire fluoride intake. Today, exposure to fluoride comes from fluoridated dental products, as well as the voluntary addition of fluoride to drinking water.

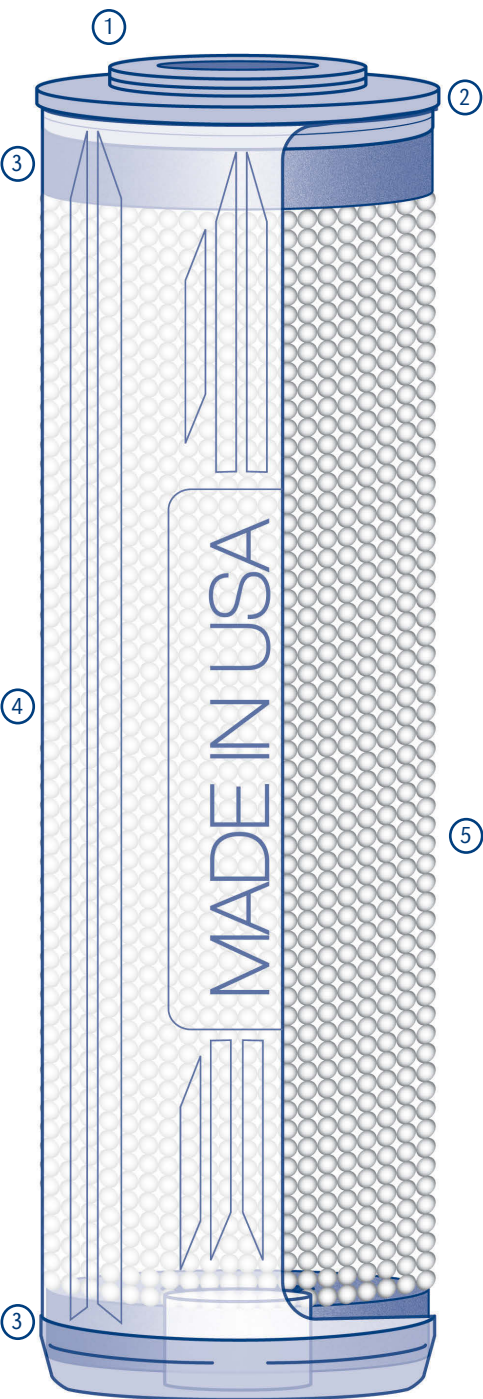
### FEATURES & BENEFITS

- **USE OF RESINTECH® PREMIUM HIGH CAPACITY SIR-900 RESIN**  
Extended surface area and pore distribution gives the media highest possible operating capacity and lowest leakage. For best performance, lower pH water sources are preferred
- **FDA DRINKING WATER APPROVED MATERIALS OF CONSTRUCTION**  
Sonic welded construction is a solvent free method to join and assemble plastic parts, producing the highest quality safest product
- **FITS STANDARD RESIDENTIAL AND INDUSTRIAL SIZE HOUSING**  
AF Series cartridges are double-open end cartridges that fit standard residential and industrial housings
- **OVERSIZED CARTRIDGE FOR MAXIMUM MEDIA FILL**  
AF Series cartridges have up to 50% higher capacity and extend cartridge life, due to the use of larger cartridges
- **QUALITY PRODUCED AND MADE IN THE USA**  
Cartridges are produced by Aries FilterWorks, a division of ResinTech®. Strict quality control over all aspects of cartridge and media production allows complete traceability of every filter



# AF SERIES - FLUORIDE REMOVAL

## TECHNICAL DATA

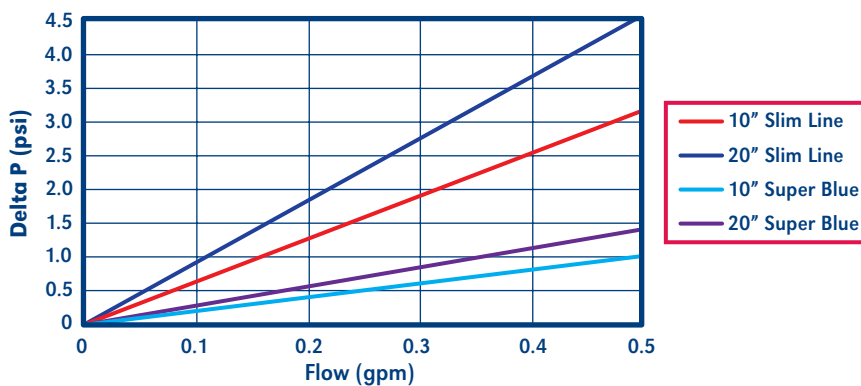


	10" SLIM	20" SLIM	10" SUPER BLUE	20" SUPER BLUE
Diameter (in.)	3.0"	2.9"	4.6"	4.6"
Length (in.)	9.9"	20.0"	10.0"	20.0"
Temperature (°F.)				
Min.	40°	40°	40°	40°
Max.	100°	100°	100°	100°
Pressure (psi)				
Min.	20	20	20	20
Max.	125	125	125	125
Micron Rating (μ)	25	25	25	25
Materials of Construction				
① Gasket	TPE	TPE	TPE	TPE
② Cap	PP	ABS	ABS	ABS
③ Pad	PE	PE	PE	PE
④ Body / Tube	PP	ABS	ABS	ABS
⑤ Media*	ResinTech® Premium SIR-900 Synthetic Adsorbent			

PP Polypropylene  
ABS Acrylonitrile Butadiene Styrene

PE Polyester  
TPE Thermoplastic Elastomer

## FLUORIDE DELTA P



## MEDIA

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## ORDERING GUIDE

PART NUMBER	MEDIA	STANDARD HOUSING DIAMETER X LENGTH	SERVICE FLOW RATE (GPM)	CAPACITY (GALLONS)
AF-10-3690	ResinTech® Premium SIR-900 Synthetic Adsorbent	2.5" x 10"	0.1	475
AF-20-3690		2.5" x 20"	.20	1,100
AF-10-3690-BB		4.5" x 10"	.20	1,200
AF-20-3690-BB		4.5" x 20"	0.2	2,500



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DS-AFFluoride-rev1.2



## AF SERIES

### HIGH PURITY DEIONIZATION

#### KEY FEATURES

- **RESINTECH® MIXED BED HIGH CAPACITY MEDIA**
- **ABILITY TO PRODUCE RESISTIVITY >18 MEGOHM FOR POLISHING**
- **LTOC RESIN AVAILABLE FOR ULTRA HIGH PURITY APPLICATIONS**

#### HIGH PURITY DEIONIZATION CARTRIDGES

Aries FilterWorks cartridges use ResinTech® mixed bed resins to ensure high purity, demineralized water. These resins, combined with the cartridge manufacturing of Aries FilterWorks, provide consistent high purity water quality with the backing of a strict quality control program. Mixed bed resins are available in various grades depending upon the applications requirements. Aside from the standard characteristic of demineralization, resin options include low odor (for humidification), and low TOC (for sensitivity to organics). These cartridges are ideal for processes requiring high purity water for washing, rinsing, scale control, or “final polishing”.

#### APPLICATIONS

##### COMMERCIAL USE -

Mixed bed deionization cartridges are a great choice for low flow applications that require high purity water. Resins can be matched to specific application needs. Standard resins are used for make up supply, rinsing and washing, cooling loops, battery filling, hydrogen generation, and fuel cell. Low odor resins are preferred on misting and humidification applications while low TOC resins are used in specialty systems where organics can cause interferences.

##### LABORATORY USE -

It is important to effectively match the purification technique to the application. Ultra High Purity water > 18 Megohm is required in most pharmaceutical, research and clinical laboratories. Deionizers are most commonly used when reverse osmosis (RO) alone cannot be relied upon to produce water of acceptable quality. Mixed bed cartridges may be placed downstream of the RO unit, completing the purification process. This quality water is used in making up reagents, preparing buffers, and diluting various solutions.

#### ABOUT HIGH PURITY DEIONIZATION

The process used for removal of all dissolved salts from water is referred to as deionization or demineralization. Deionizers (DI) remove both cations and anions, releasing hydrogen ions (H+) in exchange for the former, and hydroxyl ions (OH-) for the latter. The hydrogen and hydroxyl ions subsequently combine to form pure water. Mixed-bed deionizers produce water containing the lowest ionic concentrations. Dual-bed deionizers produce water of lesser quality, generally unacceptable for specialized medical purposes. Custom mixes of almost any kind as well as separate component are used for different applications. These combinations are most useful at the final polishing stage of the effluent.

#### FEATURES & BENEFITS

- **PREMIUM MEDIA FOR LONG-LASTING SERVICE LIFE**  
ResinTech® MBD-10 or MBD-20 mixed bed resin with resistivities of 14 -18 MΩ-cm
- **RESIN AND CARTRIDGE MANUFACTURER ALL-IN-ONE**  
Quality is built into every cartridge ensuring user confidence and performance
- **FITS STANDARD RESIDENTIAL AND INDUSTRIAL SIZE HOUSING**  
AF Series cartridges are double-open end cartridges that fit standard residential and industrial housings
- **OVERSIZED CARTRIDGE FOR MAXIMUM MEDIA FILL**  
AF Series cartridges have up to 50% higher capacity and extend cartridge life, due to the use of larger cartridges
- **QUALITY PRODUCED AND MADE IN THE USA**  
Cartridges are produced by Aries FilterWorks, a division of ResinTech®. Strict quality control over all aspects of cartridge and media production allows complete traceability of every filter



# AF SERIES - HIGH PURITY DEIONIZATION

## TECHNICAL DATA

	10" SLIM	20" SLIM	10" SUPER BLUE	20" SUPER BLUE
Diameter (in.)	3.0"	2.9"	4.6"	4.6"
Length (in.)	9.9"	20.0"	10.0"	20.0"
Temperature (°F.)				
Min.	40°	40°	40°	40°
Max.	100°	100°	100°	100°
Pressure (psi)				
Min.	20	20	20	20
Max.	125	125	125	125
Micron Rating (μ)	25	25	25	25
Materials of Construction				
① Gasket	TPE	TPE	TPE	TPE
② Cap	PP	ABS	ABS	ABS
③ Pad	PE	PE	PE	PE
④ Body / Tube	PP	ABS	ABS	ABS
⑤ Media*	ResinTech® Mixed Bed Resin			

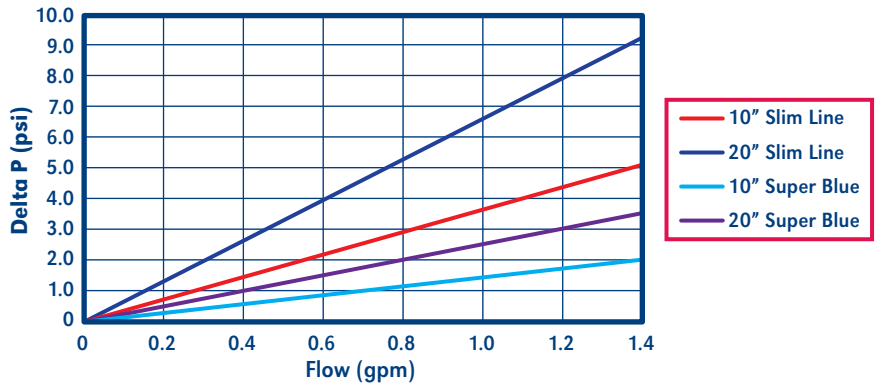
PP Polypropylene

ABS Acrylonitrile Butadiene Styrene

PE Polyester

TPE Thermoplastic Elastomer

## MIXED BED DELTA P



## MEDIA

As a division of ResinTech, Inc.®, Aries FilterWorks is the only integrated water filtration media and cartridge manufacturer providing a premium product at the most competitive cost. Aries builds technology and knowledge of ion exchange and specialty adsorbents into each cartridge. Strict quality control over all aspects of cartridge production allows complete traceability of every filter.

## ORDERING GUIDE

PART NUMBER	MEDIA	STANDARD HOUSING DIAMETER X LENGTH	FLOW RATE (GPM)		TOTAL CAPACITY* (GRAINS AS CaCO <sub>3</sub> )	ESTIMATED GALLONS		TYPICAL EFFLUENT** (RESISTIVITY)
			OPERATING	MAXIMUM		200 PPM	5 PPM	
AF-10-4010	High-Purity ResinTech® MBD-10-SC Mixed Bed Resin	2.5" x 10"	0.2	0.3	450	33	1,320	14 -18 MΩ-cm
AF-20-4010		2.5" x 20"	0.2	0.6	900	66	2,640	
AF-10-4010-BB		4.5" x 10"	0.5	0.8	1,050	75	3,000	
AF-20-4010-BB		4.5" x 20"	0.5	1.5	2,350	170	6,800	
AF-10-4011	Ultra High-Purity / LTOC ResinTech® MBD-10-LTOC Mixed Bed Resin	2.5" x 10"	0.2	0.3	450	33	1,320	14 -18 MΩ-cm
AF-20-4011		2.5" x 20"	0.2	0.6	900	66	2,640	
AF-10-4011-BB		4.5" x 10"	0.5	0.8	1,050	75	3,000	
AF-20-4011-BB		4.5" x 20"	0.5	1.5	2,350	170	6,800	
AF-10-4020	Ultra Purity / Low-Odor ResinTech® MBD-20 Mixed Bed Resin	2.5" x 10"	0.2	0.3	450	33	1,320	>14 MΩ-cm
AF-20-4020		2.5" x 20"	0.2	0.6	900	66	2,640	
AF-10-4020-BB		4.5" x 10"	0.5	0.8	1,050	75	3,000	
AF-20-4020-BB		4.5" x 20"	0.5	1.5	2,350	170	6,800	

\* Through-put based upon capacity. Specific feed contaminants can effect capacity.

\*\* Effluent based upon flow rate and 200 ppm feed water. Specific feed water contaminants can effect effluent water quality.

**Notes: Ordering information subject to change without notice. Please verify all specifications prior to ordering.**

To place an order call (856) 626-1550 or e-mail ariescs@ariesfilterworks.com

### IMPORTANT NOTICE TO USER:

DS-AFHighPurity-rev1.3

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## AF SERIES

### TWIN BED DEIONIZATION

#### KEY FEATURES

- **EXTENDED SERVICE LIFE HIGH-CAPACITY TWIN BED MEDIA**
- **HIGH CAPACITY, SCALE PREVENTION, REDUCES CORROSION**
- **SUPERIOR PHYSICAL STABILITY RESISTS BEAD BREAKAGE**

#### TWIN BED DEIONIZATION CARTRIDGES

Aries FilterWorks twin bed deionization cartridges use ResinTech® cation and anion resins in a two bed, layered cartridge. These resins, combined with the cartridge manufacturing of Aries FilterWorks, provide consistent water quality with the backing of a strict quality control program. Standard Twin Bed and High Capacity configurations are available depending on the effluent range required.

#### APPLICATIONS

##### INDUSTRIAL USE -

Scale prevention extends service life of critical components such as heating electrodes and tubing. Layered deionization cartridges are an effective pre-treatment of the water source supply to reduce and maintain mineral levels for varying processes. Applications include; environmental chambers, humidifiers, chiller systems, jacketed cooking vessels, sterilizers, autoclaves and ultrasonic equipment.

##### LABORATORY USE -

Layered cartridges can be effective by providing low grade deionized water for making up reagents, preparing buffers, and providing spot free laboratory glassware rinsing.



#### ABOUT TWIN BED DEIONIZATION

High purity mixed bed cartridges removal all minerals and can be very corrosive to materials such as copper, aluminum, and certain types of stainless steel. Layered cartridges are an ideal alternative to mixed bed cartridges providing moderate ionic removal without the corrosive characteristics. Standard twin bed cartridges use a layer of strong acid cation (SAC) and strong base anion (SBA) resin. "High Capacity" twin bed cartridges are made up of strong acid cation (SAC) and weak base anion (WBA) resins. Using these resins provide lower grade water compared to the standard twin beds as the weak base resin ignores carbon dioxide and silica ions yielding more capacity. Using premium ResinTech® resins ensures consistent quality and performance.

#### FEATURES & BENEFITS

- **RESINTECH® PREMIUM MEDIA FOR LONG-LASTING SERVICE LIFE**

Twin bed deionization layered cartridge with ResinTech® CG8-H cation and SBG2-OH anion resins  
High capacity deionization cartridge with ResinTech® CG8-H cation and WBMP-OH anion resins

- **RESIN AND CARTRIDGE MANUFACTURER ALL-IN-ONE**

Quality is built into every cartridge ensuring user confidence and performance

- **FITS ALL STANDARD RESIDENTIAL AND INDUSTRIAL SIZE HOUSING**

AF Series cartridges are double-open end cartridges that fit standard residential and industrial housings

- **OVERSIZED CARTRIDGE FOR MAXIMUM MEDIA FILL**

AF Series cartridges have up to 50% higher capacity and extend cartridge life, due to the use of larger cartridges

- **QUALITY PRODUCED AND MADE IN THE USA**

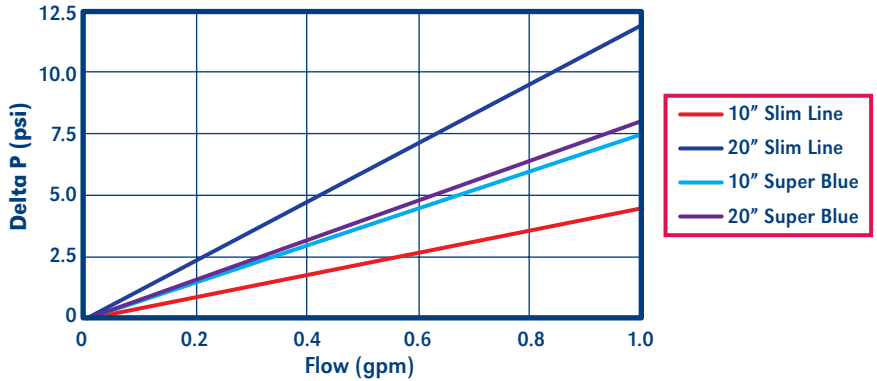
Cartridges are produced by Aries FilterWorks, a division of ResinTech®. Strict quality control over all aspects of cartridge and media production allows complete traceability of every filter

# AF SERIES - TWIN BED DEIONIZATION

## TECHNICAL DATA

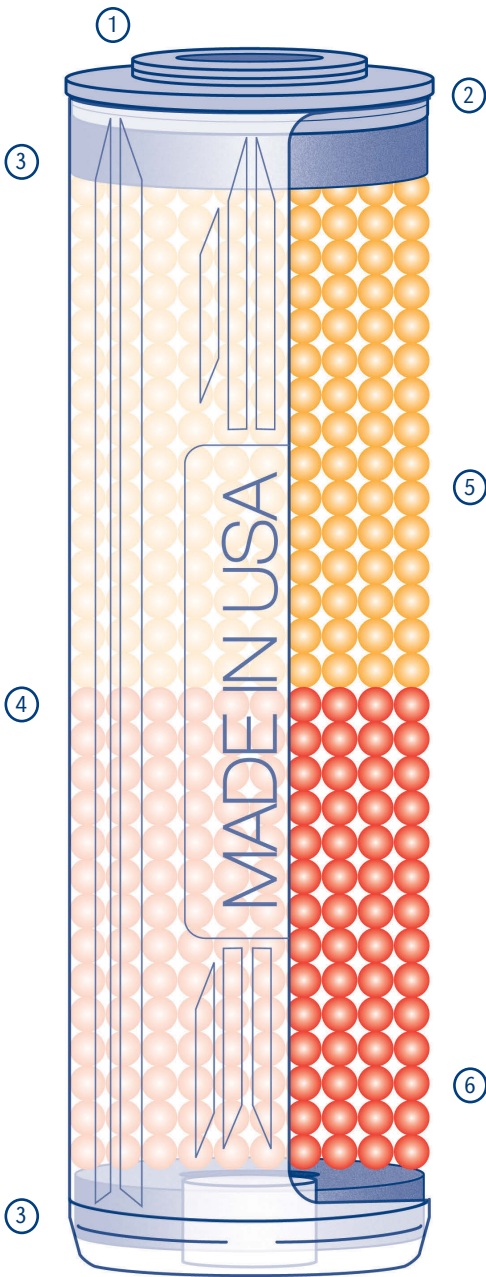
	10" SLIM	20" SLIM	10" SUPER BLUE	20" SUPER BLUE
Diameter (in.)	3.0"	2.9"	4.6"	4.6"
Length (in.)	9.9"	20"	10.0"	20.0"
Temperature (°F.)				
Min.	40°	40°	40°	40°
Max.	100°	100°	100°	100°
Pressure (psi)				
Min.	20	20	20	20
Max.	125	125	125	125
Micron Rating (μ)	25	25	25	25
Materials of Construction				
① Gasket	TPE	TPE	TPE	TPE
② Cap	PP	ABS	ABS	ABS
③ Pad	PE	PE	PE	PE
④ Body / Tube	PP	ABS	ABS	ABS
⑤ Media Layer 1*	ResinTech® SBG2-OH Anion Resin or WBMP-OH Anion Resin			
⑥ Media Layer 2*	ResinTech® CG8-H Cation Exchange Resin			
	PP Polypropylene		PE Polyester	
	ABS Acrylonitrile Butadiene Styrene		TPE Thermoplastic Elastomer	

## TWIN BED DELTA P



## MEDIA

As a division of ResinTech, Inc.®, Aries FilterWorks is the only integrated water filtration media and cartridge manufacturer providing a premium product at the most competitive cost. Aries builds technology and knowledge of ion exchange and specialty adsorbents into each cartridge. Strict quality control over all aspects of cartridge production allows complete traceability of every filter.



## ORDERING GUIDE

PART NUMBER	MEDIA	STANDARD HOUSING DIAMETER X LENGTH	FLOW RATE (GPM)		TOTAL CAPACITY* (GRAINS AS CaCO <sub>3</sub> )	ESTIMATED GALLONS*		TYPICAL EFFLUENT** (RESISTIVITY)
			OPERATING	MAXIMUM		200 PPM	5 PPM	
AF-10-4202	Twin Bed Layered ResinTech® CG8-H and SBG2-OH	2.5" x 10"	0.2	0.3	460	40	1,580	> 200 KΩ-cm @ pH 7.5 - 8.5
AF-20-4202		2.5" x 20"	0.2	0.6	800	70	2,580	
AF-10-4202-BB		4.5" x 10"	0.5	0.8	950	80	3,200	
AF-20-4202-BB		4.5" x 20"	.75	1.5	2,000	170	6,800	
AF-10-4223	High Capacity Layered ResinTech® CG8-H and WBMP-OH	2.5" x 10"	0.2	0.3	540	45	1,800	> 20 KΩ-cm @ pH 5.5 - 6.5
AF-20-4223		2.5" x 20"	0.2	0.6	950	80	3,200	
AF-10-4223-BB		4.5" x 10"	0.5	0.8	1,150	100	3,800	
AF-20-4223-BB		4.5" x 20"	.75	1.5	2,500	205	8,500	

\* Through-put based upon capacity. Specific feed contaminants can effect capacity.

\*\* Effluent based upon flow rate and 200 ppm feed water. Specific feed water contaminants can effect effluent water quality.

**Notes: Ordering information subject to change without notice. Please verify all specifications prior to ordering.**

To place an order call (856) 626-1550 or e-mail ariescs@ariesfilterworks.com

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## AF SERIES

### COLOR CHANGING DEIONIZATION

#### KEY FEATURES

- **LOW COST DEIONIZATION WITHOUT ELECTRONIC MONITORING**
- **COLOR CHANGE PROVIDES EASY INDICATION OF EXHAUSTION**
- **COMPLETE UTILIZATION OF ALL EXCHANGE CAPACITY**

#### COLOR CHANGING DEIONIZATION CARTRIDGES

Aries FilterWorks offers color changing deionization cartridges for easy indication of resin exhaustion without the need for monitors or indicating lights. Available in two configurations: *High Purity* and *High Capacity*, users have the flexibility to select the right cartridge to meet their effluent needs. High purity color changing mixed bed filters provide a resistivity greater than 10 MegOhm and distinctively change from blue to amber upon exhaustion. The high capacity cartridges provide better than 20 Kilo-Ohms and the speckled purpled cation resin changes to amber as the resin capacity becomes exhausted.

#### APPLICATIONS

##### INDUSTRIAL USE -

High Purity cartridges are used for; aquarium make up supply, rinsing and washing, cooling loops, battery filling, hydrogen generation, and fuel cells. High capacity cartridges are typically used with a lower effluent water quality specifications. Applications include; environmental chambers, humidifiers, chiller systems, jacketed cooking vessels, sterilizers, autoclaves and ultrasonic equipment.

##### LABORATORY USE -

It is important to effectively match the purification technique to the application. High purity cartridges provides water with a resistivity of >10 megohm, when used with properly treated tap water. Mixed bed cartridges may be placed downstream of the RO unit, completing the purification process. This quality water is used in making up reagents, preparing buffers, and diluting various laboratory solutions.

#### ABOUT SCALE, TASTE AND ODOR REMOVAL

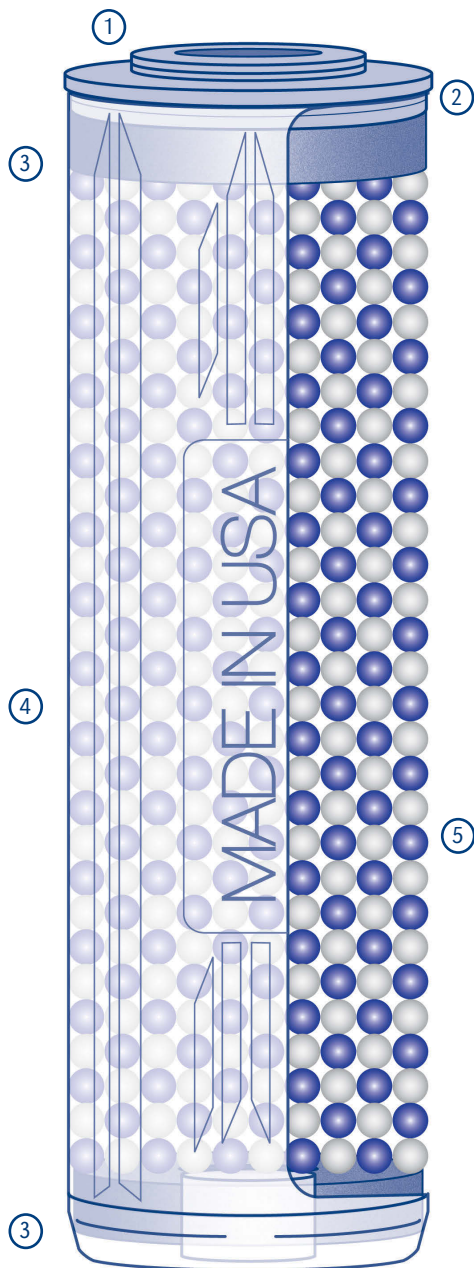
The process used for removal of all dissolved salts from water is referred to as deionization or demineralization. Deionization requires the flow of water through two ion exchange materials in order to affect the removal of all salt content. The use of an indicator dye, bound to the resin, that changes color is specifically intended for use in clear housing. Such systems are designed without meters and rely on the changing color of the mixed bed resins to indicate exhaustions and replacements of filters.

#### FEATURES & BENEFITS

- **USE OF RESINTECH COLOR INDICATING MIXED BED MEDIA**  
Easy visual indication of cartridge exhaustion gives complete utilization of all the exchange capacity, which lowers operating cost
- **FITS STANDARD RESIDENTIAL AND INDUSTRIAL SIZE HOUSING**  
AF Series cartridges are double-open end cartridges that fit standard residential and industrial housings
- **OVERSIZED CARTRIDGE FOR MAXIMUM MEDIA FILL**  
AF Series cartridges have up to 50% higher capacity and extend cartridge life, due to the use of larger cartridges
- **QUALITY PRODUCED AND MADE IN THE USA**  
Cartridges are produced by Aries FilterWorks, a division of ResinTech®. Strict quality control over all aspects of cartridge and media production allows complete traceability of every filter



# AF SERIES - COLOR CHANGING DEIONIZATION



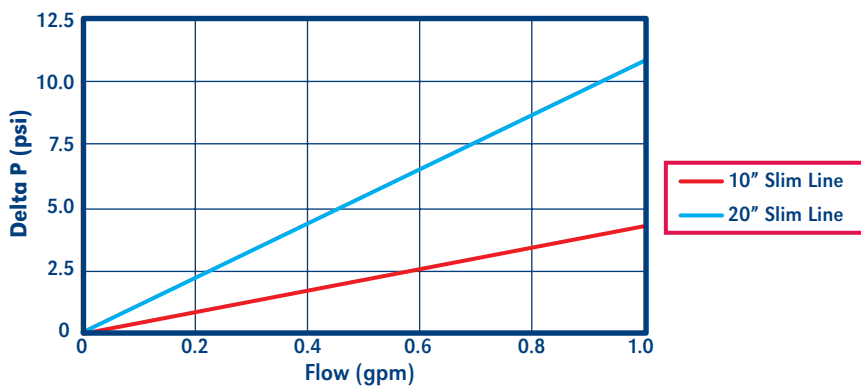
## TECHNICAL DATA

	10" SLIM	20" SLIM	10" SUPER BLUE	20" SUPER BLUE
Diameter (in.)	3.0"	2.9"	N/A	N/A
Length (in.)	9.9"	20.0"	N/A	N/A
Temperature (°F.)				
Min.	40°	40°	N/A	N/A
Max.	100°	100°	N/A	N/A
Pressure (psi)				
Min.	20	20	N/A	N/A
Max.	125	125	N/A	N/A
Micron Rating (μ)	25	25	N/A	N/A
Materials of Construction				
① Gasket	TPE	TPE	N/A	N/A
② Cap	PP	ABS	N/A	N/A
③ Pad	PE	PE	N/A	N/A
④ Body / Tube	PP	ABS	N/A	N/A
⑤ Media*	ResinTech® Premium MBD-30 or MBD-100 Mixed Bed Resin			

PP Polypropylene  
ABS Acrylonitrile Butadiene Styrene

PE Polyester  
TPE Thermoplastic Elastomer

## MIXED BED DELTA P



## MEDIA

As a division of ResinTech, Inc.®, Aries FilterWorks is the only integrated water filtration media and cartridge manufacturer providing a premium product at the most competitive cost. Aries builds technology and knowledge of ion exchange and specialty adsorbents into each cartridge. Strict quality control over all aspects of cartridge production allows complete traceability of every filter.

## ORDERING GUIDE

PART NUMBER	MEDIA	STANDARD HOUSING DIAMETER X LENGTH	FLOW RATE (GPM)		TOTAL CAPACITY (GRAINS AS CaCO <sub>3</sub> )	ESTIMATED GALLONS*		TYPICAL EFFLUENT** (RESISTIVITY)
			OPERATING	MAXIMUM		200 PPM	5 PPM	
AF-10-4030	ResinTech® MBD-30 Mixed Bed Resin	2.5" x 10"	0.2	0.3	400	33	1,320	14-18 MΩ-cm
AF-20-4030	Color Change - Blue to Amber	2.5" x 20"	0.3	0.3	700	66	2,640	
AF-10-4040	ResinTech® MBD-100 Mixed Bed Resin	2.5" x 10"	0.2	0.3	520	40	1,600	< 20 KΩ-cm (pH 5.5 - 6.5)
AF-20-4040	Color Change - Speckled Purple to White	2.5" x 20"	0.3	0.3	930	80	3,200	

\* Through-put based upon capacity. Specific feed contaminants can effect capacity.

\*\* Effluent based upon flow rate and 200 ppm feed water. Specific feed water contaminants can effect effluent water quality.



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## RC SERIES

SUPER FLOW CARBON CARTRIDGES

### KEY FEATURES

- **HIGHEST FLOW CHLORINE REDUCTION CARTRIDGE AVAILABLE**
- **USES RESINTECH PREMIUM ACID WASHED GAC**
- **PROP 65 COMPLIANT FOR DRINKING WATER APPLICATIONS**

### CARBON CARTRIDGES

Aries FilterWorks Radial Flow Cartridges are designed to effectively reduce chlorine and improve taste and odor for high flow, low pressure, point-of-entry and other high flow residential and commercial applications. Unlike axial flow cartridges that generate extreme levels of head pressure causing system failures, the radial flow will generate lower pressure drop under high flow conditions.

Aries RC Series cartridges are radial flow (water flows from outside into core) and are available in 4 ½" diameter, 10" or 20" lengths to fit standard residential and industrial housings. Aries RC Series cartridges are designed with a porous, polypro, 90 micron outer shell and a 25 micron inner spiral wound core. Aries RC cartridges are filled with premium ResinTech High Capacity Granular Activated Carbon which has been pH stabilized with and acid wash rinse. The end caps of the Aries cartridge incorporate a special scalloped design to insure optimum flow distribution. All components are made of FDA approved materials for drinking water applications.

California Prop 65 compliance ensures each lot of media complies with EPA recommended levels of contaminants, including arsenic.

### APPLICATIONS

#### RESIDENTIAL USE -

Point-of-Entry (POE) radial flow carbon cartridges used as part of a water treatment system, improves water quality by removing harmful contaminants from municipal water supplies.

#### PRE-TREATMENT TO REVERSE OSMOSIS (RO) -

Provides protection by removing contaminants such as chlorine and organics that can foul RO membranes.

#### INDUSTRIAL USE -

Food, beverage, water and ice pretreatment..

### ABOUT CARBON

Activated carbon has remarkable absorptive properties, which makes it effective in removing chlorine, sediment and Volatile Organic Compounds (VOCs). The Carbon particles have a large surface area, allowing a small amount of carbon to efficiently filter large volumes of water. As water passes through the carbon filter many chemicals and contaminants in the water are bonded at a molecular level to the carbon, effectively removing them from the water. A large percentage of chemical compounds and organic contaminants, that cause taste and odor problems are removed by carbon.

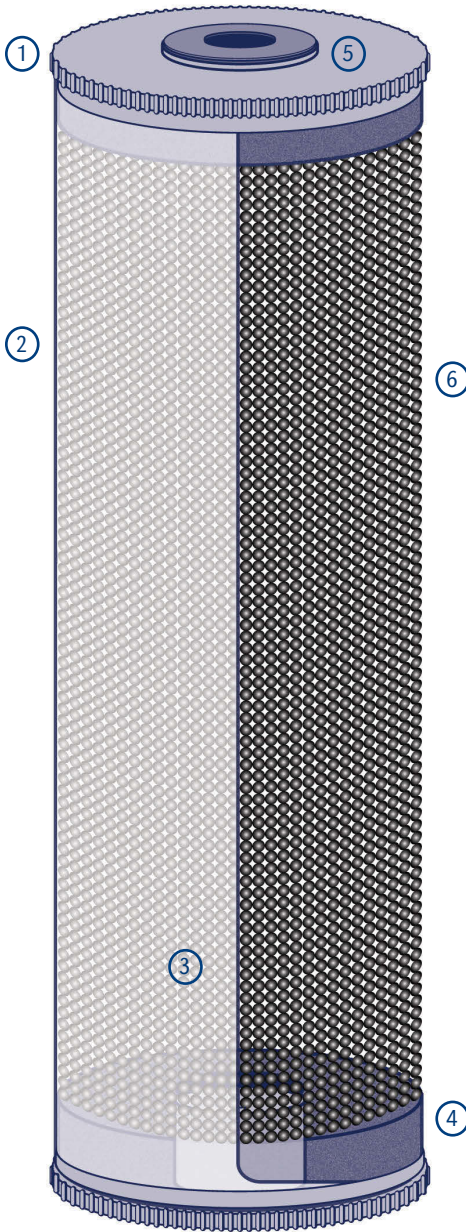
### FEATURES & BENEFITS

- **HIGH FLOW WITH LOW PRESSURE DROP**  
Perfect for Point-of-Entry (POE), commercial and industrial high flow applications
- **RESINTECH HIGH CAPACITY BLEND ACID WASHED PREMIUM GAC**  
Acid washing reduces carbon fines, prevents pH spiking, improves rinse up time, and adds approximately 5% more capacity to carbon media.
- **OVERSIZED CARTRIDGE FOR MAXIMUM MEDIA FILL**  
RC series cartridges have higher capacity and extend cartridge life, due to the use of larger cartridges.
- **QUALITY PRODUCED AND MADE IN THE USA**  
To ensure consistent quality and peace of mind for the consumer all drinking water media are WQA Gold Seal or NSF certified. Cartridges are produced by AriesFilter Works, a division of ResinTech. Strict quality control over all aspects of cartridge production allows complete traceability of every filter.



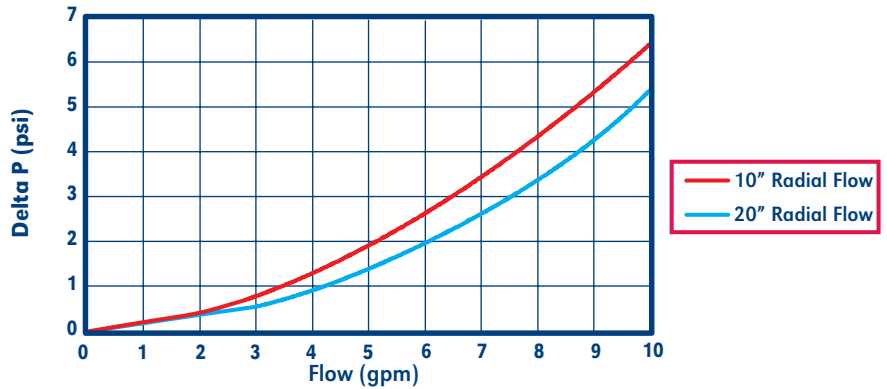
# RC SERIES - RADIAL FLOW CARBON

## TECHNICAL DATA



	10" SUPER FLOW RC GAC	20" SUPER FLOW RC GAC
Length (in.):	10	20
Diameter (in.):	4.6	4.6
Weight (lbs.):	3.125	6.25
Shipping Weight (lbs.):	25	24
Case Quantity	8	4
Temperature (°F)		
Min:	40	40
Max:	100	100
Max. Pressure (psi):	100	100
Micron Rating (μ):		
Outer Shell:	90	90
Inner Core:	25	25
Materials of Construction*		
① Cap	PP	PP
② Body/Tube	PP	PP
③ Core	PP	PP
④ Pad	PE	PE
⑤ Gasket	TPE	TPE
⑥ Fill	ResinTech Premium Granular Activated Carbon	
PP Polypropylene		PE Polyester
ABS Acrylonitrile Butadiene Styrene		TPE Thermoplastic Elastomer

## RC SERIES DELTA P



## MEDIA

As a division of ResinTech, Aries FilterWorks is the only integrated media and cartridge manufacturer providing added value of a premium product at the most competitive cost. Aries builds technology and knowledge of ion exchange and specialty adsorbents into each cartridge. Strict quality control over all aspects of cartridge production allows complete traceability of every filter.

PART NUMBER	DESCRIPTION	STANDARD HOUSING DIAMETER X LENGTH	FLOW(GPM)	ΔP	CAPACITY* (GAL.)	MESH SIZE
RC-10-1052-BB	10" Super Flow RC GAC	4.5" x 10"	1-5	< 2	60,000 @ 2ppm 120,000 @ 1ppm	20 x 50
RC-20-1052-BB	20" Super Flow RC GAC	4.5" x 20"	1-5	< 2	120,000 @ 2ppm 240,000 @ 1ppm	20 x 50

NOTE: Granular activated carbon may contain a small amount of carbon fines. A new cartridge should be sufficiently flushed to drain upon installation to remove any trace of fines prior to usage.

\* Based on internal testing and calculated capacity for chlorine taste and odor reduction



Notes: Ordering information subject to change without notice. Please verify all specifications prior to ordering.

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