


**ARIES**  
 FILTERWORKS

## 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

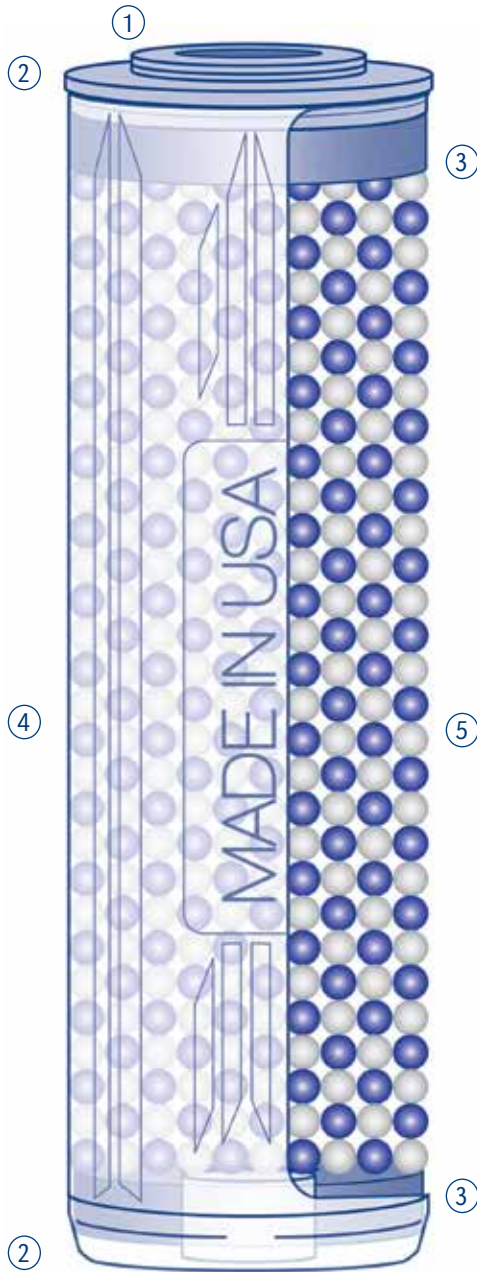
The process used for removal of all dissolved salts from water is referred to as deionization or demineralization. Deionization requires the flow of water through two ion exchange materials in order to affect the removal of all salt content. The use of an indicator dye, bound to the resin, that changes 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



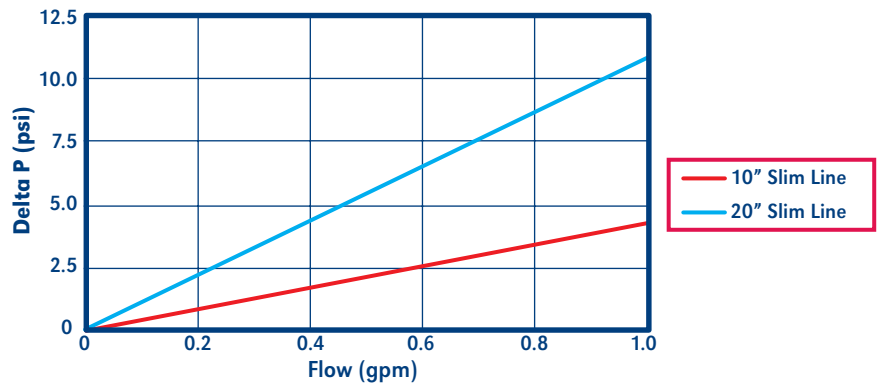
# AF SERIES - COLOR CHANGING DEIONIZATION



## TECHNICAL DATA

	10" SLIM	20" SLIM	10" SUPER BLUE	20" SUPER BLUE
Diameter (in.)	3.0"	2.9"	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. End Caps	PP	ABS	ABS	ABS
3. Pads	PE	PE	PE	PE
4. Body / Tube	PP	ABS	ABS	ABS
5. Media*	ResinTech® Premium MBD-30 or MBD-100 Mixed Bed Resin			
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	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.



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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