

ARIES

FILTERWORKS

LABORATORY • COMMERCIAL • RESIDENTIAL

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

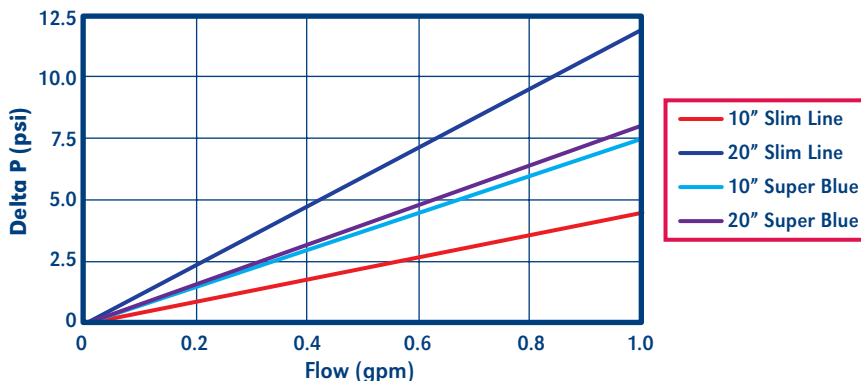


AF SERIES - TWIN BED DEIONIZATION

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"	20.0"	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 Layer 1*	ResinTech® SBG2-OH Anion Resin or WBMP-OH Anion			
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 ₃)	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.

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.

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