

# **Summary of Accepted Bag and Cartridge Alternative Filtration Technologies**

Colorado Department of Public Health and Environment - Water Quality Control Division - Engineering Section

Revised Aug 2021 https://cdphe.colorado.gov/water-quality

		Complian Awa			activation ough Disinf			Max Differential Pressure (DP) or Trans Membrane	Max Influent	Demonstrated L Removal		
Manufacturer	Model	Giardia	Crypto	Giardia	Crypto	Viruses	Flow Rate / Flux	Pressure (TMP) (psid)	Turbidity	Giardia	Crypto	Local Contact
Filtration Systems	Filtration Systems 2-State Filtration: Pre-filter model Ultrafit® 500-P000-P2-DP Final filter model Ultrafit® 700-P001-P2-IP	2.5	2.0 <sup>*</sup>	0.5	N/A <sup>*</sup>	4.0	15 GPM	30	1 NTU	3.1	3.1	Michael Goldeman Filtration Systems 954-572-2700 mgoldman@filtsys.com
	QCR, QMA Cartridge Filter	2.5	2.0*	0.5	N/A <sup>*</sup>	4.0	. 7 gallons per minute (GPM) for 10 inch			3.7	3.7	Dirk Lamprecht
Graver Technologies	WaterTEC Cartridge Filter	2.5	2.0*	0.5	N/A*	4.0	(in.) cartridges 14 GPM for 20 in 21 GPM for 30 in	35	Prefiltration is required	3.8	3.8	Dirk Lamprecht Industrial Process Technologies 303-975-9487 dirk@iptequipment.com
	ZTEC-B Cartridge Filter	2.5	2.0*	0.5	N/A <sup>*</sup>	4.0	28 GPM for 40 in			3.8	3.8	
	PPFS-HC-40-1 PPFS-HC-90-1 PPFS-HC-170-1	2.5	2.0 <sup>*</sup>	0.5	N/A <sup>*</sup>	4.0	15 GPM (HC 40) 30 GPM (HC 90) 50 GPM (HC 170)	25	1 NTU	3.5	3.5	ProWest Filtration, Inc. Lindsey Smith / 303-588-8690
Harmsco	HC/40-LT2 HC/90-LT2 HC/170-LT2	2.5	2.0 <sup>*</sup>	0.5	N/A <sup>*</sup>	4.0	MUNI 40 MP (30 GPM) MUNI 90 MP (65 GPM) MUNI 170 MP (100 GPM) MUNI-1-2FL-304 (100GPM) MUNI-3-3FL-304 (300GPM) MUNI-5-4FL-304 (500GPM) MUNI-6-6FL-304 (800 GPM)	30	1 NTU	3.6	3.6	LSmith@ProWestFiltration.com Dennis Smith / 303-803-8301 DSmith@ProWestFiltration.com www.ProWestFiltration.com 1101 36th St., Evans, CO 80620
Rosedale	PS-740-PPP-356	2.5	2.0 <sup>*</sup>	0.5	N/A <sup>*</sup>	4.0	8135-2F—1-150-S-E-700-NSF 20 GPM 18435-2F—1-150-S-E-700-NSF 80 GPM 24435-3F1-150-S-E-700-NSF 140 GPM 36435-4F—1-150-S-E-700-NSF 360 GPM 42435-4F—1-150-S-E-700-NSF 420 GPM 48435-6F-1-150-S-E-700-NSF 580 GPM	30	1 NTU	3.1	3.1	Dan Morosky Rosedale Products 734-623-1129 / 734-665-8201 danm@rosedaleproducts.com
	Strainrite Two Stage Filtration System: Aqua-Maxx PF-A Prefilter Aqua-Maxx FF-A Final Filter AQ2-2 vessel (manufactured after 1/1/2007) with AQB-Perf support basket	2.5	2.0 <sup>*</sup>	0.5	N/A <sup>*</sup>	4.0	50 GPM	18- across both stages	Comprehensive Particle Size Analysis Test Recommended	3.5	3.5	ProWest Filtration, Inc. Lindsey Smith / 303-588-8690 LSmith@ProWestFiltration.com Dennis Smith / 303-803-8301
Strainrite	Strainrite Two Stage Filtration System: HPM99-CC-2-SR Prefilter HPM99-CCX-2-SR Final Filter AQ2-2B vessel with AQC-1 compression device	2.5	2.0 <sup>*</sup>	0.5	N/A <sup>*</sup>	4.0	20 GPM	25 - per individual stage	5 NTU Pretreatment can be utilized to meet this goal	3.0	3.0	DSmith@ProWestFiltration.com www.ProWestFiltration.com 1101 36th St., Evans, CO 80620
	Strainrite AQ-PMXR9 Cartridges in Graver LPF, SC, or MC series Housings	2.5	2.0 <sup>*</sup>	0.5	N/A <sup>*</sup>	4.0	2.5 gpm per 10" cartridge 5.0 gpm per 20" cartridge 7.5 gpm per 30" cartridge 10.0 gpm per 40" cartridge	30	Recommended	>3.5	>3.5	Webster-Associates Ted Dent/ 3033-908-1792 tdent@webster-associates.net

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Addition of filtration treatment or replacement of existing filtration treatment is considered to be a change in treatment. Article 1.11.2(b) of the Colorado Primary Drinking Water Regulations (CPDWR) requires that no person shall commence construction of any new waterworks, or make improvements to or modify the treatment process of an existing waterworks, or initiate the use of a new source, until plans and specifications for such construction, improvements, modifications or use have been submitted to, and approved by the Department. A Professional Engineer registered in the State of Colorado shall design all treatment systems serving a community water supply. For additional information regarding the plans approval process, please contact your regional Colorado Department of Public Health and Environment Office.

<sup>\* -</sup> The Division reserves the right to re-evaluate the Pathogen Log Removal Credits for any alternative filtration technology as required by the LT2ESWTR.



## **Summary of Accepted Alternative Membrane Filtration Technologies**

Colorado Department of Public Health and Environment - Water Quality Control Division - Engineering Section

Revised October 2022 https://cdphe.colorado.gov/water-quality

			nce Credit irded		activation ough Disinf		95% Effluent	Direct Integrity	Max Flux @		Max Trans Membrane Pressure	Max Influent Turbidity or	
Manufacturer	Model	Giardia	Crypto	Giardia	Crypto	Viruses	Turbidity	Testing Frequency		Max Flux @ 1°C	(TMP) (psid)	Prescreening	Local Contact
Microfiltration/Ultr	rafiltration												
	dizzer XL 0.9 MB 60	3.0	3.0*	0.0	N/A <sup>*</sup>	4.0			105	60	21		Dave Holland Aqua-Aerobic Systems, Inc.
BASF-inge	dizzer XL 0.9 MB 70	3.0	3.0*	0.0	N/A <sup>*</sup>	4.0	≤0.1 NTU -	1X Week	105	60	21	300 micron required.	
	dizzer XL 1.5 MB 40	3.0	3.0*	0.0	N/A <sup>*</sup>	4.0	CFE		105	60	21	·	(815) 639-4470 dholland@aqua-aerobic.com
	dizzer XL 1.5 MB 50	3.0	3.0*	0.0	N/A*	4.0	<0.4 NTU		105	60	21		anonana@aqaa aorosiosom
D. Water and	SFD-2860 and 2880	3.0	3.0*	0.0	N/A <sup>*</sup>	4.0	≤0.1 NTU - CFE	1X Week	70	40	30	300 micron required.	Kelly Lange-Haider
Dow Water and Process Solutions	IntegraPac-51 and 77	3.0	3.0*	0.0	N/A <sup>*</sup>	4.0	≤0.1 NTU - CFE	1X Week	70	40	30	300 micron required.	Dow Water and Process Solutions (952) 897-4311
	IntegraFlo-74 and 102	3.0	3.0*	0.0	N/A*	4.0	≤0.1 NTU - CFE	1X Week	70	40	30	300 micron required.	KPlange-haider@dow.com
	M10C	3.0	3.0*	0.0	N/A <sup>*</sup>	4.0	≤0.1 NTU - CFE	1X Week	40	23	22		
	L10V or N	3.0	3.0*	0.0	N/A <sup>*</sup>	4.0	≤0.1 NTU - CFE	1X Week	80 (L10V) 155 (L10N)	46 (L10V) 88 (L10N)	22	250 – 500 micron pre- screening is required.	Nick Lucas MISCO Water 303-309-6150 nlucas@miscowater.com
DuPont Memcor	L20V or N	3.0	3.0*	0.0	N/A <sup>*</sup>	4.0	≤0.1 NTU - CFE	1X Week	80 (L20V) 155 (L20N)	46 (L20V) 88 (L20N)	22		
	L40N	3.0	3.0*	0.0	N/A*	4.0	≤0.1 NTU - CFE	1X Week	70	40	22		
	S10N	3.0	3.0*	0.0	N/A <sup>*</sup>	4.0	≤0.1 NTU - CFE	1X Week	80	46	22		
Innovative Water	IWT 275	3.0	3.0*	0.0	N/A <sup>*</sup>	4.0	≤0.1 NTU - CFE	1X Week	9.5 GPM continuous at 20 deg. C	9.5 GPM continuous at 1 deg. C	40	Prefiltration is required	Jack Barker Innovative Water Technologies 719-254-4426/ 877-567-9310 sales@innovativeH2o.com
Technologies	Homespring UF211	3.0	3.0*	0.0	N/A <sup>*</sup>	4.0	≤0.1 NTU - CFE	1X Week	4.5 GPM continuous at 20 deg. C	4.5 GPM continuous at 1 deg. C	40	Prefiltration is required	
Kruger/ Metawater	KCM269	3.0	3.0*	0.0	N/A <sup>*</sup>	4.0	≤0.1 NTU - CFE	1X Week	175	100	55.0	Up to 2000 NTU Tested	D.H. Lindsey Co. Douglas Lindsey 303-843-9116
Nanostone	CM-151	4.0	3.0*	0.0	N/A <sup>*</sup>	4.0	≤0.1 NTU - CFE	1X Week	300	171	100.0	2000 NTU Feed, 400 micron pre-screen	Stanton Smith Nanostone Water, Inc. stanton.smith@nanostone.com 617-460-9433
Pall	Microza	3.0	3.0*	0.0	N/A <sup>*</sup>	4.0	≤0.1 NTU - CFE	1X Week	120	69	43.5	Not spec'd. Prescreen typical.	Mark Sampson Water Control Corp 303-477-1970 m.sampson@watercontrolcorp.com



#### **Summary of Accepted Alternative Membrane Filtration Technologies**

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Revised October 2022

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			Compliance Credit Log Inactivation Awarded through Disin					Direct Integrity	Max Flux @		Max Trans Membrane Pressure	Max Influent Turbidity or	
Manufacturer	Model	Giardia	Crypto	Giardia	Crypto	Viruses	Turbidity	Testing Frequency		Max Flux @ 1°C	(TMP) (psid)	Prescreening	Local Contact
Microfiltration/Ultr	crofiltration/Ultrafiltration												
Pentair - Innovative Water Technologies	Homespring UF211	3.0	3.0*	0.0	N/A <sup>*</sup>	4.0	≤0.1 NTU - CFE	1X Week	4.5 GPM continuous at 20 deg. C	4.5 GPM continuous at 1 deg. C	40	Prefiltration is required	Jack Barker Innovative Water Technologies 719-254-4426/ 877-567-9310 sales@innovativeH2o.com
Pentair X-Flow B.V.	X-Flow SXL-225 and SXL-55	3.0	3.0*	0.0	N/A <sup>*</sup>	4.0	≤0.1 NTU - CFE	1X Week	120	68	31	Pretreatment required if raw water exceeds 100 NTU	Deb Jensen Filter Tech Systems, Inc. 888-287-8292 / 970-254-2855 Deb@filtertechsystems.com
Polymem	Polymem UF120S2	3.0	3.0*	0.0	N/A <sup>*</sup>	4.0	≤0.1 NTU - CFE	1X Week	27	15.4	29.0	200 micron prescreen	Polymem Direct
	SMT600-P50	3.0	3.0*	0.0	N/A <sup>*</sup>	4.0	≤0.1 NTU - CFE	1X Week	120	68	43.5	Required - 500 micron	
	SMT600-P80	3.0	3.0*	0.0	N/A*	4.0	≤0.1 NTU - CFE	1X Week	120	68	43.5	Required - 500 micron	Jan Cornelius, P.E.
Scinor Water America	SMT600-P23	3.0	3.0*	0.0	N/A <sup>*</sup>	4.0	≤0.1 NTU - CFE	1X Week	120	68	43.5	Required - 500 micron	Scinor Water America Phone: 607.342.6528
	SMT600-P38	3.0	3.0*	0.0	N/A <sup>*</sup>	4.0	≤0.1 NTU - CFE	1X Week	120	68	43.5	Required - 500 micron	Email: jan.cornelius@scinor.com
	SMT600-S26, S40, S48, S51, S60	3.0	3.0*	0.0	N/A <sup>*</sup>	4.0	≤0.1 NTU - CFE	1X Week	120	68	11.0	Required - 500 micron	
	Zeeweed 500	3.0	3.0*	0.0	N/A <sup>*</sup>	4.0	≤0.1 NTU - CFE	1X Week	60	34	12	500 micron prescreening	Grant Macinnis, P.Eng. SUEZ WTS Tel: +1 (720) 855-7296 Mobile: +1 (303) 396-9532 grant.macinnis@suez.com
SUEZ Water	Zeeweed 1000	3.0	3.0*	0.0	N/A <sup>*</sup>	4.0	≤0.1 NTU - CFE	1X Week	60	34	13	typically required.	
Technologies & Solutions	Zeeweed 1500-550 and 1500-600	3.0	3.0*	0.0	N/A*	4.0	≤0.1 NTU - CFE	1X Week	90 (1500-550) 100 (1500-600)	51 (1500-550) 57 (1500-600)	45	500 micron pre-screen – additional pretreatment may be required	
	HFS-2020	3.0	3.0*	0.0	N/A*	4.0	≤0.1 NTU - CFE	1X Week	120	68	29.0	100 NTU Max	
	HFU-2020N	3.0	3.0*	0.0	N/A <sup>*</sup>	4.0	≤0.1 NTU - CFE	1X Week	100	57	29.0	100 NTU Max	
T	HFU-2020AN	3.0	3.0*	0.0	N/A <sup>*</sup>	4.0	≤0.1 NTU - CFE	1X Week	120	68	29.0	200 micron prescreen	Susan L Guibert, P.E. Toray Membrane USA, Inc.
Toray	HFUG-2020AN	3.0	3.0*	0.0	N/A <sup>*</sup>	4.0	≤0.1 NTU - CFE	1X Week	120	68	29.0	200 micron prescreen	Mobile: 858.382.2813 E-mail: sue.guibert.h4@mail.toray
	HFU-B2315AN	3.0	3.0*	0.0	N/A*	4.0	≤0.1 NTU - CFE	1X Week	120	68	29.0	200 micron prescreen	2 main sasiganzoran (@mainsra)
	HFUG-B2314AN	3.0	3.0*	0.0	N/A <sup>*</sup>	4.0	≤0.1 NTU - CFE	1X Week	120	68	29.0	200 micron prescreen	
Reverse Osmosis/ Various	Nanofiltration	3.0	3.0*	0.0	N/A <sup>*</sup>	4.0	≤0.1 NTU - CFE	1X Week - surrogate WQ parameter (sulfate, TOC, etc.)	Based on specific manufacturer information	Based on specific manufacturer information	Based on vendors specs	Pretreatment is required	Various
Hydranautics	Various	3.0	3.0*	0.0	N/A <sup>*</sup>	4.0	≤0.1 NTU - CFE	1X Week - surrogate WQ parameter	Site Specific	Site Specific	Site Specific	Pretreatment is required	Hydranautics - A Nitto Denko Company 760-901-2563

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# Summary of Accepted Membrane Filtration Skids Colorado Department of Public Health and Environment - Water Quality Control Division - Engineering Section

Revised October 2022 https://cdphe.colorado.gov/water-quality

Manufacturer	Model	Compliance Element/Module	Accpeted Flow Rate	Flow Rate Units (gpm, MGD, gallons per day)	Backflow prevention for CIP	Local Contact		
Microfiltration/Ultra	afiltration							
Dow Water and	IntegraFlo-74 and 102 Skids	KCM269	Various	N/A	Double block and bleed	Kelly Lange-Haider Dow Water and Process Solutions (952) 897-4311 KPlange-haider@dow.com		
Process Solutions	IntegraPac-51 and 77 Skids	KCM269	Various	N/A	Double block and bleed			
	XP 3-24L10V	L10V	25,000 - 750,000		Double block and bleed			
	XP 18-42L20V	L20V	must show flux calcs	gallons per day	Double block and bleed			
	CP 48-120L20V	L20V	500,000 - 6,000,000 - must show flux	gallana nas day	Double block and bleed	Nick Lucas		
DuPont Memcor	CP 132-240L20V	L20V	calcs	gallons per day	Double block and bleed	MISCO Water		
	CPII MR1, MR2, MR4	L40N	175K - 3000K	gallons per day	Double block and bleed	303-309-6150 nlucas@miscowater.com		
	XPE 2L10V, XPE 3L10V, XPE 4L10V, XPE 6l10V, XPE 9L10V, XPE 12L10V	L10 V	9, 13.5, 18, 27, 40.5, 54	gpm	Manual Air gap	, in the second		
	UFX-1		20	gpm	Double block and bleed			
•	UFX-2		40	gpm	Double block and bleed			
	UFX-3		85	gpm	Double block and bleed			
	UFX-4	X-Flow SXL-225	210	gpm	Double block and bleed			
	UFX-5		375	gpm	Double block and bleed			
	UFX-6		585	gpm	Double block and bleed			
Filter Tech	UFX-7		835	gpm	Double block and bleed	Deb Jensen		
Systems Inc.	UFX55-1		29	gpm	Double block and bleed	Filter Tech Systems, Inc. 888-287-8292 / 970-254-2855		
eyeterrie ine.	UFX55-2		57	gpm	Double block and bleed	Deb@filtertechsystems.com		
	UFX55-3		143	gpm	Double block and bleed			
	UFX55-4	X-Flow SXL-55	287	gpm	Double block and bleed			
	UFX55-5	X-1 10W 3XL-33	574	gpm	Double block and bleed			
	UFX55-6		918	gpm	Double block and bleed			
	UFX55-7		1147	gpm	Double block and bleed	]		
	UFX55-8		1434	gpm	Double block and bleed			
·	8R10E	KCM269	3,766,000	gallons per day (80 modules, 20deg C)	Double block and bleed	D.H. Lindsey Co. Douglas Lindsey		
(ruger/ Metawater	10R10E	KCM269	4,707,500	gallons per day (100 modules, 20deg C)	Double block and bleed	304 Inverness Way South, Suite 170 Englewood, CO 80112 303-843-9116		
	Aria AP1	Microza	28	gpm	Double block and bleed			
Pall Corporation	Aria AP2	Microza	49	gpm	Bleed to tank 2 - w/level sensor	1		
	Aria AP3	Microza	174	gpm	Bleed to tank 2 - w/level sensor	Mart 0		
	Aria AP4	Microza		gpm	Bleed to tank 2 - w/level sensor	Mark Sampson Water Control Corp 303-477-1970 m.sampson@watercontrolcorp.com		
	Aria AP6	Microza	694	gpm	Bleed to tank 2 - w/level sensor			
	Aria AP6x	Microza	867	gpm	Bleed to tank 2 - w/level sensor			
	Aria AP8	Microza	1388	gpm	Bleed to tank 2 - w/level sensor			



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	UF 5	Homespring UF211	5,000	gallons per day	Air gap			
	UF 10	Homespring UF211	10,000 gallons per day Air gap		1			
	UF 20	Homespring UF211	20,000	gallons per day	Air gap			
Innovate Water	UF 30	Homespring UF211	30,000	gallons per day	Air gap	Jack Barker Innovative Water Technologies		
Technologies	UF 40	Homespring UF211	40,000	gallons per day	Air gap	719-254-4426/ 877-567-9310 sales@innovativeH2o.com		
	UF 50	Homespring UF211	50,000	gallons per day	Air gap	Sales@iiiilovalivei izo.com		
	SS 24	Homespring UF211	5, 000	gallons per day	Air gap			
	SS 36	Homespring UF211	10,000	gallons per day	Air gap			
	Z-Pak-350 12 module	ZW-1500-550	260	gpm	Block and bleed (Valves, FV301, 302, 601, 602, 704, and 705)	Grant Macinnis, P.Eng. SUEZ WTS Tel: +1 (720) 855-7296		
SUEZ Water Technologies &	Z-Pak-350 12 module	ZW-1500-600	255	gpm	Block and bleed (Valves, FV301, 302, 601, 602, 704, and 705)			
Solutions	Z-Pak-350 24 module	ZW-1500-550	520	gpm	Block and bleed (Valves, FV301, 302, 601, 602, 704, and 705)	Mobile: +1 (303) 396-9532 grant.macinnis@suez.com		
	Z-Pak-350 24 module	ZW-1500-600	510	gpm	Block and bleed (Valves, FV301, 302, 601, 602, 704, and 705)			
	AltaFilter (other)	HFU-2020N	Various	N/A	Block and Bleed (valves AV-x02A, AV-x02B and AV-x20)	<b>A</b> ,		
	AF18	HFU-2020N	540	gpm	Block and Bleed (valves AV-x02A, AV-x02B and AV-x20)	1		
WesTech	AF22	HFU-2020N	660	gpm	Block and Bleed (valves AV-x02A, AV-x02B and AV-x20)	Lindsay Housley, P.E. WesTech		
vvesiedii	APIII	HFU-2020N	75	gpm	Block and Bleed (valves AV-x02A, AV-x02B and AV-x20)	801.290.6404 lhousley@westech-inc.com		
	APVI	HFU-2020N	150	gpm	Block and Bleed (valves AV-x02A, AV-x02B and AV-x20)			
	APXII	HFU-2020N	300	gpm	Block and Bleed (valves AV-x02A, AV-x02B and AV-x20)	<u> </u>		
Wigen Water Technologies	Not Spec'd case by case	Toray HFS-2020/ HFU-2020N Dow SFD-2880, IntegraFlo-102	None - must verify on each submittal	N/A	Double block and bleed	Michael Bourke Wigen Water Technologies 6500 S. Quebec St, Suite 300 I Centennial, CO 80111 USA T: (303) 350-3086		

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