

# Better Water at Lower Cost

## Proven **C**ontinuous **U**ltra **F**iltration Performance

**80%**

Capital  
Reduction

**75%**

Footprint  
Reduction

**80%**

Chemicals  
Reduction

**50%**

Energy  
Reduction

**50%**

OpEx  
Reduction

- ✓ The Platform is the Plant
- ✓ Zero Liquid Discharge
- ✓ 250 GFD on Surface Water
- ✓ Multi-Contaminant Removal Capacity
- ✓ Lowest O&M Cost Structure
- ✓ Fully Automated
- ✓ >99% On-Line Duty
- ✓ Continuous Self Cleaning
- ✓ ANSI 61/372 Compliant
- ✓ LT2ESWTR Compliant
- ✓ Reduced Complexity
- ✓ No End Life of The Membrane
- ✓ 50% Less Coagulant
- ✓ In-Situ Concentrated Sweep Floc
- ✓ Low-Cost Marker Based DIT
- ✓ Twice the DOC Removal
- ✓ Best Warranty
- ✓ Constant Flux Capability
- ✓ Eliminates Backwash Process
- ✓ Eliminates Backwash Tank
- ✓ Eliminates Clarifier
- ✓ Eliminates Flocculation or Polymer
- ✓ Eliminates Clean In Place (CIP)
- ✓ Eliminates Membrane Replacement
- ✓ Eliminates Filtrate Loss
- ✓ Eliminates Pre-Treatment
- ✓ Eliminates Chloramines
- ✓ Eliminates Permanganate
- ✓ Eliminates Temperature Constraints
- ✓ Eliminates Jar Testing
- ✓ Eliminates Bubble Decay Integrity Test
- ✓ Eliminates DIT Volumetric Concentration
- ✓ Eliminates Filter Press
- ✓ Eliminates 0.3 Micron Prefilter
- ✓ Eliminates Pressure Constraints
- ✓ Eliminates pH Constraints





- ✓ Allows Free Chlorine Use
- ✓ Reduces Cl<sub>2</sub> Demand
- ✓ 5.7 LRV Approval
- ✓ THM & HAA Compliance
- ✓ All Filtrate to Distribution
- ✓ Minimal Operator Requirement
- ✓ Continuous Flow
- ✓ 99.99% Feed Water Recovery
- ✓ Accepts Feed Pressure 0-150 psi
- ✓ Most Hydrophilic Membrane (SiC)
- ✓ Exceptional Cold-Water Performance
- ✓ Lower TMP & X Pressure
- ✓ Factory Acceptance & Review
- ✓ Factory Training Prior to Shipment
- ✓ Taste & Odor Removal
- ✓ In-Situ Coagulation
- ✓ In-Situ Oxidation
- ✓ In-Situ Reduction
- ✓ Virtually Indestructible
- ✓ Flexible Design Can Incorporate Carbon
- ✓ 5<sup>th</sup> Generation 100% SiC Ceramic Membrane
- ✓ Eliminates Cleaning Constraints
- ✓ Eliminates Prorated Warranty
- ✓ Eliminates Irreparable Fouling
- ✓ Eliminates Coagulant Breakthrough
- ✓ Eliminates Onsite Fabrication
- ✓ Eliminates Continuous Operator Adjustments
- ✓ Eliminates Composite Ceramic
- ✓ Eliminates Air Sparging
- ✓ Eliminates Intermittent or Batch Processing
- ✓ Eliminates Ion Exchange (SIX)
- ✓ Eliminates Flux De-Rating Due to Cold Water
- ✓ Eliminates Membrane End-of-Life
- ✓ Eliminates Dead-End
- ✓ Eliminates Just a Filter
- ✓ Eliminates Pinning
- ✓ Eliminates Charge Neutralization
- ✓ Eliminates Risk of Cross-Contamination
- ✓ Eliminates Complexity/Confusion
- ✓ Eliminates UV
- ✓ Eliminates Membrane Preservative
- ✓ 0 to 100% Turndown Capability

**Learn More:** <https://www.youtube.com/watch?v=bs1vtEjZjbw>





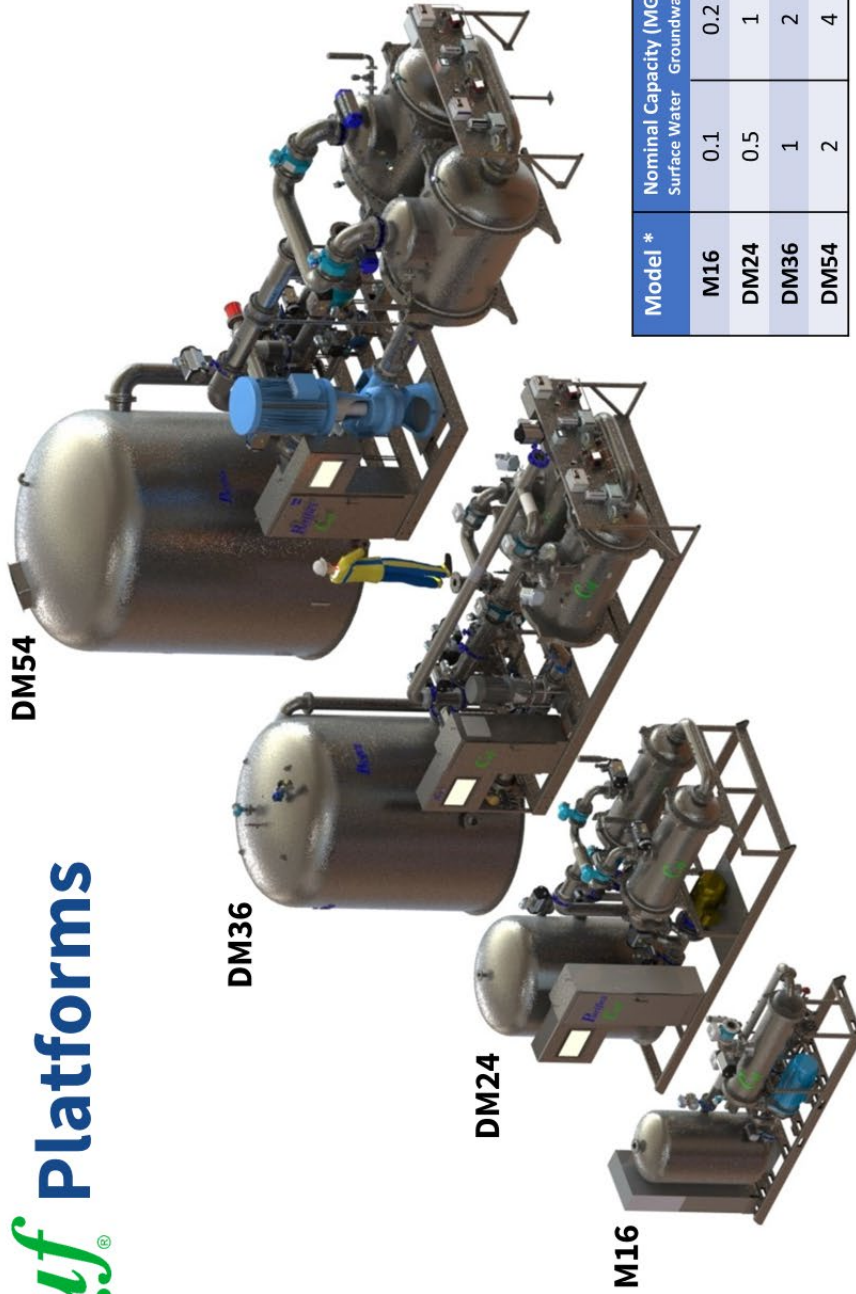
# Typical Contaminant Removal Performance

Contaminant (ppb)	Raw	Post
<b>E. coli/Crypto</b>		5.7 LRV
<b>Aluminum</b>		
<b>Antimony</b>	10	< 2
<b>Arsenic</b>	8.3	< 5
<b>Barium</b>	36	1.9
<b>Beryllium</b>	4	< 1
<b>Cadmium</b>	300	< 1
<b>Chromium (6)</b>	21	< 2
<b>Cobalt</b>	310	< 1
<b>Color (CU)</b>	256	17
<b>Complexed Copper</b>		
<b>Copper</b>	74	0.61
<b>DOC/TOC (ppm)</b>	3.3	<1.0
<b>THM/HAA</b>	>80	<14
<b>Fluoride</b>	4500	1700
<b>H<sub>2</sub>S</b>	2.63	<0.006
<b>Hardness</b>		
<b>Iron</b>	47000	58
<b>Lead</b>	3.8	< 1
<b>Manganese</b>	6700	6.2
<b>Mercury</b>	0.15	< 0.2
<b>Molybdenum</b>	1.4	1.1
<b>Nickel</b>	140	< 2
<b>PFAS (ppt)</b>	2.5 – 6.7	<2
<b>Phosphorus</b>	129	4.3
<b>Radium 226/228</b>	2.2/2.8	0.2/<1.0
<b>Selenium</b>	6.1	< 5
<b>Silver</b>	1	< 1
<b>Thallium</b>	10	< 2
<b>Tin</b>		
<b>Uranium</b>		
<b>Vanadium</b>	22	2.1
<b>Zinc</b>	420	< 20





# Cuf Platforms



Model *	Nominal Capacity (MGD)		L x W x H
	Surface Water	Groundwater	
M16	0.1	0.2	10' x 2.5' x 6'
DM24	0.5	1	15' x 6' x 8'
DM36	1	2	22' x 8' x 10'
DM54	2	4	28' x 12' x 12'

\* DM Signifies Dual Module System. All DM Platforms can be supplied as M platforms only and be expanded to DM at future date.

