

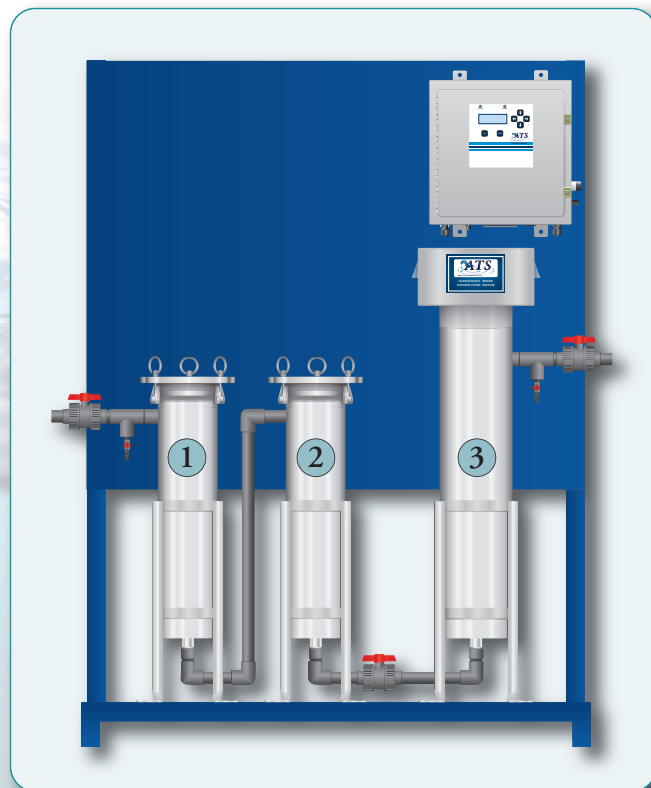
SKMB-3S-186K SYSTEM

4 LOG REDUCTION

STAGE 1 Turbidity Filter - A Gradient Density Matrix of Uniform Polypropylene Fibers makes up the particulate reduction cartridge with $25\mu\text{m} : 1\mu\text{m}$ high efficiency. This prevents media migration and ensures consistent quality filtration performance. Add in the inter-layer bonding which eliminates contaminant uploading and channeling. The outer chamber is 304 SS with swing bolts, dual O-Ring sealing, pressure relief / drain valve and designed with an open ended outside / in flow.

STAGE 2 CMF™ Charged Membrane Filter - A Pleated cartridge with high LRV (log reduction value) against Bacteria, Viruses and Cyrtosporidium. Agion® antimicrobial material is blended throughout the media to prevent the cartridge from being classified as a bio-hazardous material. The outer chamber is 304 SS with swing bolts, dual O-Ring sealing, pressure relief / drain valve and designed with an open ended outside / in flow.

STAGE 3 HDUV-186K™ High Dosage Ultraviolet - Generates an Ultraviolet Dose of over $186 \text{ mJ/cm}^2 @ 254\text{nm}$ wave length for maximum LRV against Bacteria, Viruses (including Adenovirus*) and Cyrtosporidium Cysts. This dosage provides >4 LRV of microbial disinfections strength to breakdown even the most UV resistant organisms. This is done by using Validated UV High Output, low pressure Amalgam Lamps, which have a 12,000 hr life and are housed in fused Quartz Sleeves (single open ended). The outer chamber is 304 SS with O-Ring sealing, pressure relief / drain valve and designed with an open ended outside / in flow.



FEATURES:

- 304 Stainless Steel
- Touch Screen with Logic Interface Control
- Lamp Time Counter
- Lamp Operation Detection
- Software Program Updates via Online
- Immediate Notification of Multiple Alarm Conditions
- Real Time Display of UV System Operational Status
- Self Monitoring capabilities and maintains the overall UV System operation, performance and Maintenance requirements
- Digital Display
- UV Lamp Status
- Ballast Operation Detection
- Remote PLC Monitor Connection
- Data Log History of All Alarm Conditions
- Nema 4 Type Electrical Box Enclosure

Global Applications

Medical & Professional

Laboratories
Bio-Tech
Pharmaceutical
DI Water
Ingredient /Process Water



Public Water Supplies (as per USEPA)

Municipal
Community
Transient (Rest Stops, RV Parks, Camp Grounds, etc)
Non Transient (Schools, Churches, Business, etc)

Industrial & Farming Process

Food & Beverage
Beer & Wine
Aqua Culture
Poultry / Dairy / Swine



Natural Disaster Relief

Drinking Water Dispensing Stations
set up for recovery from
Floods
Hurricanes
Earthquakes

Commercial & Food Services

Restaurants
Coffee Shops
Convenient Stores
Grocery Stores



Private Water

Wells & Cisterns
Lakes & Ponds

Rain Water Collection (Green Systems)

Drinking Water
Gray Water

Certified Performance

This is a System that conforms to the NSF/ANSI Std 61

CMF & HDUV Systems have been performance tested, evaluated and verified by the USEPA, T&E Facility. As individual components and as a single unit. Assuring that it is a True Multi-Barrier Drinking Water Disinfection System.

MS2 Bacteriophage Virus	>5.8 LRV - 99.9998%
Adenovirus	...>5.8 LRV - 99.9998%
Cryptosporidium	>5.8 LRV - 99.9998%

Operating Specifications:

Min/Max working Pressure: 30 psi (2.1 bar) / 125 psi (8.6 bar)
Temp: 35° - 100° F (2° - 38° C)
Service Flow: 10 - 480 gpm (38 - 1842 Lpm)
Service Capacity:
Stage 1: 35 psid (2.5 bar)
Stage 2: 35 psid (2.5 bar)
differential pressure *(estimated 12 months)
Stage 3: 12,000 hr Lamp Life
Internal Pressure Drop: <7 psi (.5 bar)

* Product performance is dependent upon incoming water conditions

Conforms to Testing Protocols as recommended in the USEPA Public Drinking Water Guidance Manuals.
See performance test date sheets for individual contaminant's and reduction performance.

Incoming Water Quality Guidelines for Maximum LRV Efficiency

This Disinfection Treatment System, requires pretreatment for particulates, color, iron, manganese and total organic carbon. Pretreatment must be installed so as to maintain the life of the CMF cartridge. The CMF cartridge is a critical component of the Multi-Barrier System, designed for microbial reduction there by allowing for Max UVT efficiency of Stage 3.

Pretreatment Guidelines:

Turbidity	<= 1 NTU
TOC	<50 mg/L
pH	5 - 9.5
Iron	<0.3 ppm
Manganese	<0.05 ppm
TDS	<30 g/l
TSS	Low as possible to extend CMF life

Capacity Retention of Bacteria, Viruses & Cysts:

exceeds 1 million organisms per gpm of designed flow rate.

Warranty:

Removal or by pass of any stage of the system will void the warranty & all performance claims. See Warranty sheet for more details.



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Providing Better Water For Better Living

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