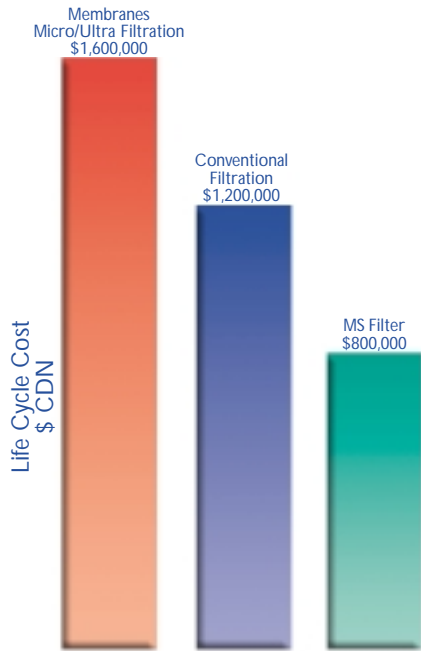


"THE BEST CHOICE FOR SMALL SYSTEMS"

Lowest Life Cycle Costs



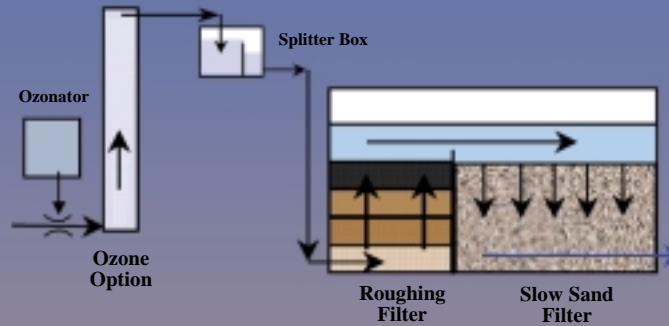
Based on 250m³/d, 20yr. life
(ask an MSF representative for a full cost analysis)

COST ADVANTAGES

- No coagulant or pH adjustment chemicals.
- Gravity Feed - much less energy required.
- Long Run Times - less operating labour.
- Biologically active - longer GAC life.
- Simple design and construction.

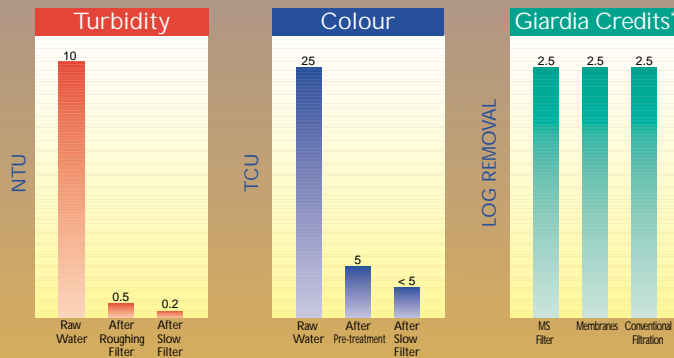
Enhanced Treatment Performance

Meets or exceeds regulatory filtration requirements



Enhancements Over Traditional Slow Sand Filtration:

1. Pre-Ozonation enhances disinfection and oxidizes organics including colour and taste and odour compounds into a more biodegradable form that is readily removed by the slow sand filter.
2. Roughing Filter removes up to 80% of the suspended solids that allows the MS Filter to be used for waters with high turbidity and algae, while maintaining long filter runs. (60 days +)
3. Granular Activated Carbon augments the biological filtration process and protects the slow sand filter from disinfection chemicals.



* Meet regulatory standards for giardia removal.

Easiest to Operate

OPERATION ADVANTAGES

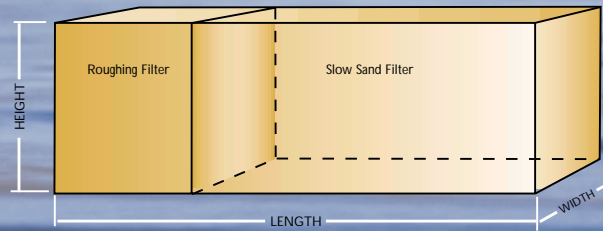
- No need for sophisticated monitoring and adjustments to optimize pH and coagulant dose.
- Venturi ozone injection system is self correcting with flow.
- Long run times between cleaning.
- Simple cleaning system.
- Open, gravity fed filters can be visibly inspected.
- Biological filtration of organics rather than adsorption means GAC life greatly extended.

Comparison of Operations

Operational Parameter	MS Filter System	Conventional Filtration	Membranes
pH Adjustment	No	Yes	Yes *
Coagulant Addition	No	Yes	Yes *
Wastewater	Minor	Moderate	High
Filter Runs	Months	Days	Hours
Inspection	Easy	Easy	Difficult
Cleaning	Easy	Moderate	Difficult
Media Replacement	No Replacement	10 Years	5 to 8 Years
Maintenance	Low	Moderate	Moderate/High

* with colour removal pre-treatment

Typical Dimensions



Capacity (m3/day)	Dimensions (meters)		
	Height (m)	Length (m)	Width (m)
20	2.1	1.8	1.2
100	2.1	5.3	2.4
200	2.1	9.1	2.8
300	2.1	12.0	3.2
450	2.1	15.2	4.0

Note: For larger flows, multiple filters can be arranged as parallel modules

Typical Treatment Ranges

Parameter	Without Pre-Ozonation		With Pre-Ozonation	
	Raw Water Quality Limits	MS Filter Effluent	Raw Water Quality Limits	MS Filter Effluent
Turbidity	Up to 30 NTU	< 0.3 NTU	Up to 30 NTU	< 0.2 NTU
Colour	Up to 20 TCU	< 5 TCU	Up to 60 TCU	< 5 TCU
Bacteria		2 Log Removal		>4 Log Removal
Giardia		>4 Log Removal		>6 Log Removal
Iron	1.0 mg/L	<0.3 mg/L	5 mg/L	< 0.3 mg/L
Manganese	0.1 mg/L	<0.05 mg/L	0.5 mg/L	< 0.05 mg/L

Multi-Stage Filter™

MSE™

PACKAGE PLANTS for SMALL SYSTEMS



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Patent Pending

MS FILTER INC. "Simply A Better Solution"