

Ultrafiltration Systems

Capacity: 10,000 to 1,000,000 GPD

MAN-UF™
SERIES

Ultrafiltration is a pressure driven membrane separation process that removes suspended or particulate matter (including colloids & silt) from water. Ultrafiltration is more reliable than conventional multimedia filtration that removes approx. 10 micron or larger matter. Ultrafiltration also efficiently removes bacteria and most viruses.

Standard Features **MAN-UF™**

- Carbon steel or Stainless steel frame
- Automatic electric/pneumatic valves
- Safety pressure switches
- Multi-stage centrifugal pump with 3Ph electric motor
- Control and command system
- Electric panel board
- Permeate, concentrate and re-circulation flow meters
- Temperature indicators
- Valves for pressure and flow adjustments
- High mechanical resistance membranes
- Pressure vessels specifically designed for each application
- Circuits made in PVC/Stainless steel



GLOBAL WaterMAN USA supplies a full line of standard and fully customizable Ultrafiltration systems, all of which are engineered using advanced 3D computer modelling and process design software.



General characteristics **MAN-UF™**

- Built with high quality materials and pre-arranged for possible extensions
- Membranes and systems suitable for food grade fluids
- Pre-treatment for UF plants
- Silent operation
- Designed for specific applications
- Suitable for continuous and heavy duty operation
- Electric panel board for selecting and running each operation phase
- Easy ordinary maintenance
- Adaptable, to a limited extent, to changes of solids content in the feed water
- Pre-arranged for automatic cleaning of spiral membranes, automatic back-washing of hollow fiber membranes
- Visual indicators of flow, pressure and temperature
- Integrated electronic systems for automatic operation phases
- Automatic membranes' flushing system
- Dosing system

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WATERMAN

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Water Treatment • Water testing Equipment • Automation Systems
Reverse Osmosis • UF Plants • Water Filters • Water Softeners • MBR Systems
Drinking Water Systems • Industrial Water Systems • Wastewater Systems
Domestic • Large Scale • Communities
Sales • Installation • Service

Ultrafiltration Systems

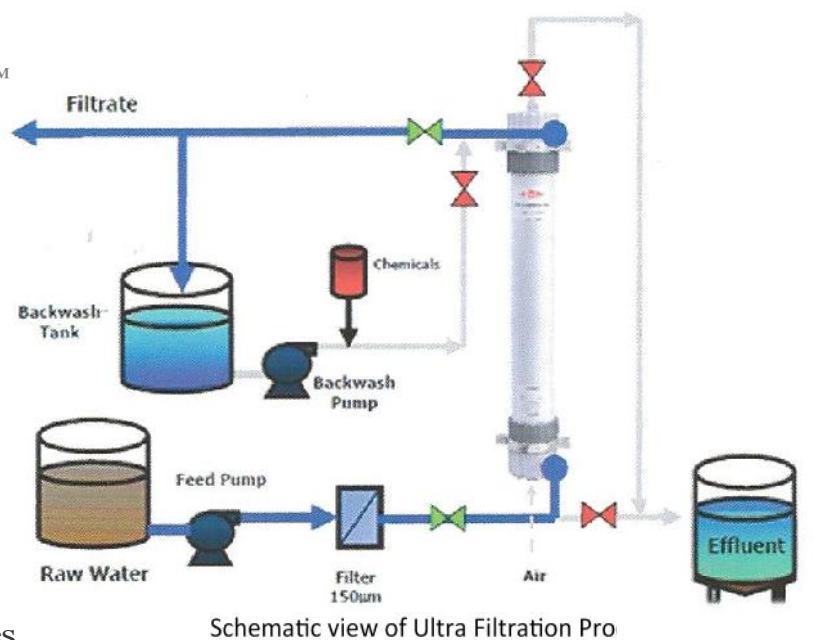
Capacity: 10,000 to 1,000,000 GPD

MAN-UF™ SERIES

Ultrafiltration systems eliminates the need for clarifiers and multimedia filters. The standard design is based on a UF module with outside-in flow configuration which allows for less plugging, higher solids loading, higher flow area and easy cleaning.

Operation Specifications MAN-UF™

- ◇ Power supply: 220V/50Hz or 400V/3Ph/50Hz
- ◇ Turbidity < 50 max. 300 NTU
- ◇ TSS < 50 max. < 100 mg/L
- ◇ TOC < 10 max. < 40 mg/L
- ◇ COD max. < 60 mg/L
- ◇ pH 6-9 (2-1l cleaning)
- ◇ Temperature 25°C (max. 40°C)
- ◇ Cl2 0.5 ppm (2,000 cleaning)
- ◇ Backwash frequency 20-60 minutes



Technical Specifications - MAN-UF™ Ultra Filtration Systems

Model	Filtrate Surface or Grey Water Flux: 25 GFD		Filtrate Sea Water Flux: 35 GFD		Filtrate Ground Water Flux: 53 GFD		Number of UF Modules
	GPD	M3/D	GPD	M3/D	GPD	M3/D	
MAN-UF-10G-1	10,080	38	15,840	60	25,920	98	1
MAN-UF-20G-2	20,160	76	30,956	117	50,655	192	2
MAN-UF-40G-4	40,320	153	63,541	241	103,976	394	4
MAN-UF-60G-6	60,480	229	94,497	358	154,631	586	6
MAN-UF-80G-8	80,640	305	127,082	481	207,952	788	8
MAN-UF-100G-10	100,800	382	158,038	599	258,608	980	10
MAN-UF-120G-12	120,960	458	190,623	722	311,929	1,182	12
MAN-UF-161G-16	161,280	611	254,164	963	415,905	1,575	16
MAN-UF-201G-20	201,600	764	316,076	1,197	517,215	1,959	20
MAN-UF-262G-26	262,080	993	412,202	1,561	674,512	2,555	26
MAN-UF-302G-30	302,400	1,145	475,743	1,802	778,489	2,949	30
MAN-UF-403G-40	403,200	1,527	633,781	2,401	1,037,096	3,928	40

This product conforms to the NSF standard of USA



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