



Ultra Filtration Systems

Purion Product Guide

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Please note: Images in this product guide may vary and are a representation only. If you have any questions, please contact us for further information.

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MODEL S430C

PORTABLE HAND OPERATED ULTRAFILTRATION SYSTEM FOR POTABLE WATER SUPPLY

IDEAL FOR

- Exploration Sites
- Remote Locations

REMOVES :

- Suspended Solids
- Turbidity
- Colloids
- High Molecular Weight Material
- Taste & Odour
- Bacteria, and Viruses

FEATURES:

- Easy to Operate
- Small footprint (26cm x 60cm x 170cm)
- High flow rate (0.5 m³/hr)*
- High mobility and light weight (20kg)
- No electricity required (hand pump)

INCLUDES:

- S430 Ultra-Flo membrane cartridge
- C430 Carbon cartridge
- Manual hand pump
- Stainless steel frame/PVC piping
- Hoses and quick couplings



OPERATING SPECIFICATIONS

Configuration:	Hollow Fibre
Operation Process:	Dead-end Filtration\ In to Out Mode
Recovery:	90-95%*
Operating Temp:	Max. 50°C
*subject to feedwater conditions	

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Ultrafiltration

Hollow Fibre Membrane Filtration



MU0 SERIES

BENEFITS:

- Removal of solids to less than 1.0 micron
- Removal of turbidity to less than 0.1 NTU
- Barrier against bacteria and viruses
- Constant permeate quality at varying feed water TSS levels
- Concentrate and recovery of valuable salts
- Very small footprint
- No flocculants, coagulants or feedwater pH adjustment

SPECIFICATIONS

Configuration	Hollow Fibre
Operation Process	Dead-end filtration, air scouring with backflush
Recovery	90-95%
Operating Pressure	< 55kpa (feed) < 98kpa (backflush)
Operating Temp.	< 50°C
Product Turbidity	< 0.1 NTU (subject to feedwater condition)
Power MU01-8 MU02-8	240v 50hz 5A Single Phase 240v 50hz 8A Single Phase
Dimensions/Weight MU01-8 MU02-8	0.8L X 0.7W X 1.8H / 80kg 0.8L X 1.0W X 2.3H / 130kg

PERFORMANCE

(guide only, actual performance dependant on raw water quality)

MODEL	TOWN WATER	RIVER/BORE	TREATED WATER
WTUFGU01-8	4.0 m3/hr	2.5 m3/hr	1.5 m3/hr
WTUFGU02-8	8.0 m3/hr	5.0 m3/hr	3.0 m3/hr

SYSTEMS INCLUDES:

- 8"x 60" Membranes
- Raw Water Supply Pump
- Stainless Steel Backwash Pump
- Motorised Slow-Close Control Valves
- Feed, Air & Backflush Gauges
- Oversized Product Flow Meter for easy reading
- Air-Scour Blower
- Stainless Steel Frame
- Electrical Control Panel with PLC
- Raw Water Pre-Filter
- Wheels for easy mobility

MODEL - MU01-8



MODEL - MU01-8



Ultrafiltration

Hollow Fibre Membrane Filtration



K SERIES

BENEFITS:

- Removal of solids to less than 1.0 micron
- Removal of turbidity to less than 0.1 NTU
- Barrier against bacteria and viruses
- 95% water recovery
- Constant permeate quality at varying feed water TSS levels
- Concentrate and recovery of valuable salts
- Very small footprint
- No flocculants, coagulants or feedwater pH adjustment

SPECIFICATIONS

Configuration	Hollow Fibre, Out to In
Operation Process	Dead-end filtration, air scouring with backflush
Recovery	90-95%
Operating Pressure	< 55kpa (feed) < 98kpa (backflush)
Operating Temp.	< 50°C
Product Turbidity	< 0.1 NTU (subject to feedwater condition)
Power Requirement MODEL - WTUF4-8DPLS Filtration Backwash MODEL - WTUF6-8DPLS Filtration Backwash	 1.5kw 415v 3ph 4.0kw 415v 3ph 1.5kw 415v 3ph 5.5kw 415v 3ph
Dimensions/Weight WTUF4-8DPLS WTUF6-8DPLS	 1.5L X 1.2W X 2.2H / 300kg 2.5L X 1.2W X 2.2H / 450kg

PERFORMANCE

(guide only, actual performance dependant on raw water quality)

MODEL	TOWN WATER	RIVER/BORE	TREATED WATER
WTUF4-8DPLS	8.0 m3/hr	5.0 m3/hr	3.0 m3/hr
WTUF6-8DPLS	12.0 m3/hr	7.5 m3/hr	4.5 m3/hr

SYSTEMS INCLUDES:

- 8"x 60" Membranes
- Stainless Steel Raw Water & Backwash Water Supply Pumps
- Motorised Slow-Close Control Valves
- Feed, Air & Backflush Gauges
- Oversized Product Flow Meter for easy reading
- Air-Scour Blower
- Stainless Steel Frame
- Electrical Control Panel with PLC
- Raw Water Pre-Filter
- **OPTIONS:** Touch Screen Display • Data Logging

MODEL - WTUF6-8DPLS



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Grey Water Treatment

Using Hollow Fibre Membrane Ultrafiltration



MATTEN UF-GWS SERIES

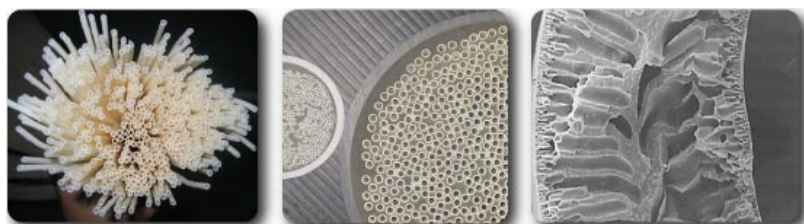
SIMPLE & COMPACT GREY WATER TREATMENT THROUGH MODULAR ULTRAFILTRATION

M.UF-GWS series is designed to treat grey water from varying sources where feed turbidity does not exceed 50 NTU to produce crystal clear safe water for both domestic, commercial and industrial applications.

The system incorporates proprietary 250mm \varnothing X 1500mm UF membrane modules filled with Polyvinyl-chloride (PVC) hollow-fibres. The housing has a thick robust reinforced ribbed body that can withstand up to 1.6MPa burst pressure.

The individual fibre is manufactured to remove suspended particulates, colloidal material, bacteria and high molecular weight material down to 0.01 micron.

The M.UF- GWS includes feed and back-flush pumps that auto flush sequentially to retard membrane fouling.



Hollow fibers internal diameter ranges from 0.5mm to 2.7mm and customizable to suit the various industries

TYPICAL APPLICATIONS

- Township / Residential Estates
- Commercial Buildings
- Industrial Factories
- Construction Sites
- Municipal

Modified hydrophilic Polyvinylchloride (PVC) membranes exhibit better chemical resistance and elongation strength than PES or PAN membranes. It is well suited for city water applications where abrasive particulates are commonly present in grey water sources. The use of PVC membranes translate into lower maintenance and replacement costs.

Model	Flow Rate	Diamentions	Pipe Size	Backwash Volume m ³	Weight (kg)	Power (kW - V amp)
GWS-02	6	2.0 X 1.2 X 2.2	2	0.4	800	2 - 415 - 6
GWS-04	12	5.2 X 1.2 X 2.2	3	0.8	1200	2 - 415 - 6
GWS-06	18	3.2 X 1.5 X 2.2	4	1.2	2200	4 - 415 - 10
GWS-08	24	4.4 X 1.5 X 2.2	4	1.6	3100	4 - 415 - 10
GWS-12	36	5.2 X 1.5 X 2.2	4	2.4	3300	5.5 - 415 - 13
GWS-16	48	3.4 X 2.2 X 2.2	6	3.2	4200	5.5 - 415 - 13
GWS-20	60	3.8 X 2.2 X 2.2	6	4.0	5000	11 - 415 - 21.4
GWS-24	72	4.8 X 2.2 X 2.2	6	4.8	6000	11 - 415 - 21.4
GWS-32	96	5.8 X 2.2 X 2.2	8	6.4	7500	11 - 415 - 21.4

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