

# Ultrafiltration Systems

Capacity: 19,815 to 792,600 GPD

# ULTRAMATCH 800

Series

Standard units designed for RO system pretreatment, tertiary treatment and grey water applications. They can also be offered as containerized units or custom Built to project requirement.

## STANDARD FEATURES

### MAIN ITEMS

- + Pressurized Ultrafiltration PVDF Hollow Fiber UF Membrane, Outside-to-inside flow direction, High chemical resistance with Polyvinylidene Fluoride (PVDF), High mechanical strength with high filtration flux.
- + Feed and backwash pump
- + Air scouring blower
- + Powder coated steel frame
- + Automatic backwash and air scouring
- + Chlorine dosing system for daily membrane cleaning

### ELECTRICAL

- + Power supply: 460 / 3 ph / 60 Hz
- + PLC based control panel featuring:
  - Programmable time delay and set points
  - Status amber / green lamps
  - Alarms red lamps
  - Nema 12 enclosure with disconnect and Inter-lock rotary handle
  - 110V/ 60Hz control voltage
  - Motor starter with over load relays
  - HMI colored touch screen

### INSTRUMENTATION

- + Liquid filled pressure gauges, 2-1/2" dial size, panel mount for inlet/outlet pressures
- + Product, backwash and air scouring flow meter/monitor



### VALVES

- + Motorized Ball/Butterfly valve with PLC Controller
- + PVC isolation valves
- + PVC sample valves
- + Automatic Air Release Valve/Vacuum Breaker

## AVAILABLE OPTIONS

- + 380-415V/3 Ph/50Hz power supply, 220V control panel
- + 230V/3 Ph/60Hz power supply
- + Basket filter pretreatment
- + Chemical dosing system
- + Membrane cleaning unit
- + Differential pressure initiation for backwash
- + Custom designed Units

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## OPERATION SPECIFICATION

- + Feed water temperature: 100°Fmax.
- + Feed water pressure: 0 -15 psi
- + Operating pressure : 30 -40 psi
- + Feed pH range: 1-10
- + Intermittent Peak Turbidity: 100 NTU
- + Continuous Maximum Turbidity: 30NTU
- + Intermittent Peak TSS: 100 mg/L
- + Continuous Maximum TSS: 30 mg/L
- + Cleaning pH Range: 0-12
- + Maximum concentration of NaClO as Cl<sub>2</sub>: 3,000 mg/L
- + Maximum NaClO exposure (lifetime contact Time) as Cl<sub>2</sub>: 1,000,000 mg/L hours
- + Maximum acid contact time: 1,000 hours (pH ≥ 1.0)

## SPECIFICATION AND DIMENSIONS

Model	Max. Capacity		Membranes Qty	System KW 60 Hz	Dimensions (inches) L"×W"×H"	Approx. Wt. Lbs
	GPD	M3/D				
UM8-1	19,815	75	1	3	83 x 52 x 113	1,100
UM8-2	39,630	150	2	5	89 x 59 x 113	1,450
UM8-3	59,445	225	3	7.5	107 x 71 x 113	2,100
UM8-4	79,260	300	4	10	107 x 71 x 113	2,350
UM8-5	99,075	375	5	15	107 x 85 x 113	2,750
UM8-6	118,890	450	6	15	183 x 52 x 113	2,950
UM8-8	158,520	600	8	20	183 x 63 x 113	3,800
UM8-10	198,150	750	10	20	183 x 77 x 114	4,700
UM8-12	237,780	900	12	30	205 x 87 x 114	5,500
UM8-16	317,040	1200	16	40	217 x 87 x 114	6,400
UM8-20	396,300	1500	20	40	260 x 87 x 114	7,750
UM8-24	475,560	1800	24	50	274 x 87 x 114	9,000
UM8-28	554,820	2100	28	60	288 x 87 x 114	10,000
UM8-32	634,080	2400	32	60	301 x 87 x 114	10,950
UM8-36	713,340	2700	36	75	315 x 87 x 114	11,850
UM8-40	792,600	3000	40	100	329 x 87 x 114	12,650

\* Specifications are subject to change without notice

Metric Units	Pressure (bar) = PSI / 14.5	Power (kW) = HP x 0.746	Weight (Kg) = lbs /2.2	Dimensions (mm) = inch x 25.4
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Water and Wastewater Treatment Systems

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