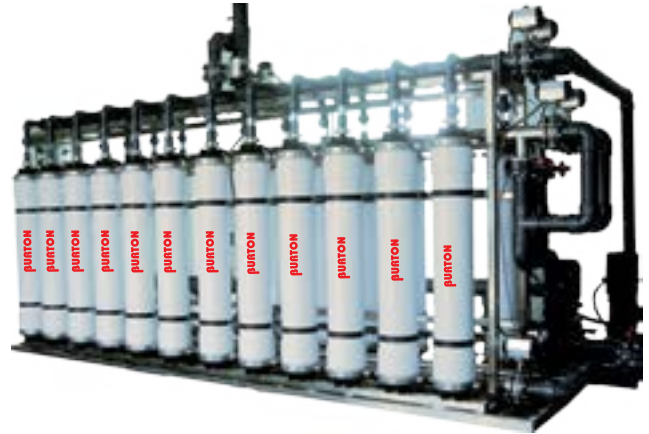


ergo Ultrafiltration

Ultrafiltration (UF) is a separation process using membranes with pore sizes in the range of 0.1 to 0.001 micron. Ergo Ultrafiltration offers hollow-fibre inside-out membranes capable of removing high molecular-weight substances, colloidal materials, organic and inorganic polymeric molecules. The UF membranes are made of PAN alloy material which has high hydrophilicity ensuring excellent cleanability using chemically enhanced backwashes.



Features and Benefits

Features	Benefits
Highly Hydrophilic UF membranes	50,000 - 100,000 Dalton MWCO, inside out hollow fiber membranes made of PAN alloy material with food grade epoxy resin end sealing makes it highly durable and chlorine resistant.
Onsite Customization of Operation	Onsite PLC with keyboard enables to change the service time before forward flush and to change the backwash time and interval
Easy Operation & Maintenance	Automated and configurable Chemical Enhanced Backwashes (CEB) enables regular and optimized cleaning schedule, reducing fouling and sustaining permeate flow
Human Machine Interface (HMI)	2 line display and onsite keypad to monitor and control the UF unit onsite

Applications

Pre-treatment Filtration

- Seawater Desalination Pretreatment
- Pre-treatment to RO System
- Pre-treatment to Nano filtration and Ion Exchange

Water Purification

- Surface water filtration, e.g. river water, run-off water
- Municipal / Sewage treatment effluent reclamation

Standard Supplies

- One Raw feed pump
- One Backwash Pump
- Burton/ Hydranautics UF membranes
- Micron Cartridge filter
- Dosing pumps
- Skid to support the accessories
- Hypochlorite dosing system
- Acid dosing system
- Alkali dosing system
- Electrical panel with PLC

Technical Specifications

Model to be chosen based on the Permeate flow required or inlet feed flow available and Feed water source (Ground Water / Surface water / Tertiary Treated Sewage or effluent)

see overleaf..



Ergonomic Design



Minimum Footprint



Maximum Convenience



Plug & Play



Easy Maintenance



Fontus Service Advantage

Technical Specifications

ergo UF with Burton membranes

Model No.	Feed flow			Permeate		
	GW	SW	WW	GW	SW	WW
ergo UF 0401	0.40	0.32	0.24	0.40	0.30	0.20
ergo UF 0402	0.80	0.65	0.47	0.80	0.60	0.40
ergo UF 0403	1.30	0.97	0.71	1.20	0.90	0.60
ergo UF 0404	1.70	1.29	0.94	1.60	1.20	0.80
ergo UF 0801	2.10	1.61	1.18	2.00	1.50	1.00
ergo UF 0802	4.20	3.23	2.35	4.00	3.00	2.00
ergo UF 0803	6.30	4.84	3.53	6.00	4.50	3.00
ergo UF 0804	8.40	6.45	4.71	8.00	6.00	4.00
ergo UF 0806	12.60	9.68	7.06	12.00	9.00	6.00
ergo UF 0808	16.80	12.90	9.41	16.00	12.00	8.00
ergo UF 1006	23.20	17.81	12.99	22.08	16.56	11.04
ergo UF 1008	31.00	23.74	17.32	29.44	22.08	14.72
ergo UF 1010	38.70	29.68	21.65	36.80	27.60	18.40
ergo UF 1012	46.50	35.61	25.98	44.16	33.12	22.08
ergo UF 1014	-	41.55	30.31	-	38.64	25.76
ergo UF 1016	-	47.48	34.64	-	44.16	29.44
ergo UF 1020	-	-	43.29	-	-	36.80

ergo UF with Hydranautics membranes

Model No.	Feed flow			Permeate		
	GW	SW	WW	GW	SW	WW
ergo UF 01h40	3.79	2.90	1.76	3.6	2.7	1.5
ergo UF 01h60	5.81	4.45	2.71	5.5	4.1	2.3
ergo UF 02h60	11.62	8.90	5.41	11.0	8.3	4.6
ergo UF 03h60	17.43	13.35	8.12	16.6	12.4	6.9
ergo UF 04h60	23.24	17.81	10.82	22.1	16.6	9.2
ergo UF 05h60	29.05	22.26	13.53	27.6	20.7	11.5
ergo UF 06h60	34.86	26.71	16.24	33.1	24.8	13.8
ergo UF 07h60	40.67	31.16	18.94	38.6	29.0	16.1
ergo UF 08h60	46.48	35.61	21.65	44.2	33.1	18.4
ergo UF 09h60	-	40.06	24.35	-	37.3	20.7
ergo UF 10h60	-	45.16	27.06	-	42.0	23.0
ergo UF 11h60	-	48.97	29.76	-	45.5	25.3
ergo UF 12h60	-	-	32.47	-	-	27.6
ergo UF 13h60	-	-	35.18	-	-	29.9
ergo UF 14h60	-	-	37.88	-	-	32.2
ergo UF 15h60	-	-	40.59	-	-	34.5
ergo UF 16h60	-	-	43.29	-	-	36.8

Legend

GW -	Ground Water / City Water / Treated Surface Water
SW-	Surface Water
WW-	Secondary Treated / Tertiary treated / Treated Effluent



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Operating Specifications

Parameters	Inlet Feed Concentrations to UF	Outlet / Permeate Concentrations
Total Suspended solids(TSS), mg/l	<30	Below detectable limits
Turbidity, NTU	<15	<2
Silt Density Index, SDI	<25	<1
Oil and Grease, mg/l	<5	<1
Other Operating parameters		
Maximum continuous chlorine, mg/L		70
Maximum temporary chlorine, mg/l		200
Maximum air pressure during integrity test, MPa (bar)		0.2 (2)
Maximum feed water pressure, MPa (bar)		0.6 (6)
Recommended service Trans Membrane pressure , MPa(bar)		< 0.2 (2)
Maximum backwash Trans Membrane pressure, MPa(bar)		<0.15 (1.5)
Working temperature(degree Celsius)		2 – 40
Operating Philosophy		Cross flow