



ULP Series

Ultra-low Pressure RO Membrane Elements

Description

ULP Series Ultra-low Pressure RO Membrane Elements are made of polyamide composite membrane materials, and operate at ultra-low pressure. The industrial RO membrane elements can achieve the required water production and high desalination rate under the ultra-low pressure condition. The ultra-low pressure RO membrane operating pressure is 2/3 times of that of the conventional composite membrane, thereby reducing the investment costs of related pumps, pipelines, containers and other equipment and the operating costs of the reverse osmosis system, and improving economic benefits. ULP series RO membrane elements are suitable for water sources with a salt content of less than 2000ppm, such as the desalination of surface water, groundwater, tap water and municipal water etc..



Features

- Effectively save the cost of pumps, pipelines and pressure vessels
- The ultra-low pressure RO membrane greatly reduce operating costs
- The industrial RO elements are suitable for small and medium water purification systems
- The RO membrane elements are used for desalination of raw water with lower salt concentration
- The industrial RO membrane elements are suitable for water sources with a salt content of less than 2000ppm
- RO membrane elements are high water flux and high salt rejection rate under lower operating pressure conditions

Specification

Model	ULP-2521	ULP-2540	ULP-4021-HR	ULP-4021-HF	ULP-4040-HR	ULP-4040-HF	ULP-8040-HR	ULP-8040-HF
Effective Membrane Area ft ² (m ²)	14 (1.3)	30 (2.8)	36 (3.3)	36 (3.3)	90 (8.4)	90 (8.4)	400 (37.2)	400 (37.2)
Average Water Production GPD (m ³ /d)	300 (1.13)	750 (1.84)	850 (3.2)	1000 (3.8)	1900 (7.2)	2400 (9.1)	10000 (37.8)	11200 (42.3)
Stabilized Desalination Rate %	99.0	99.0	99.4	99.0	99.4	99.0	99.5	99.0
Minimum Desalination Rate %	98.5	98.5	99	98.5	99	98.5	99	98.5
Membrane Media	Aromatic Polyamide							
Construction	Spiral Wound							
Test Pressure	100psi (0.69Mpa)							
Test Water Temperature	25 °C							
PH Value of Test Solution	7.5							
Test Solution Concentration (NaCl)	500ppm							
Recovery Rate of Single RO Element	15% (Model: 8040/4040/2540) 8% (Model: 4021/2521)							

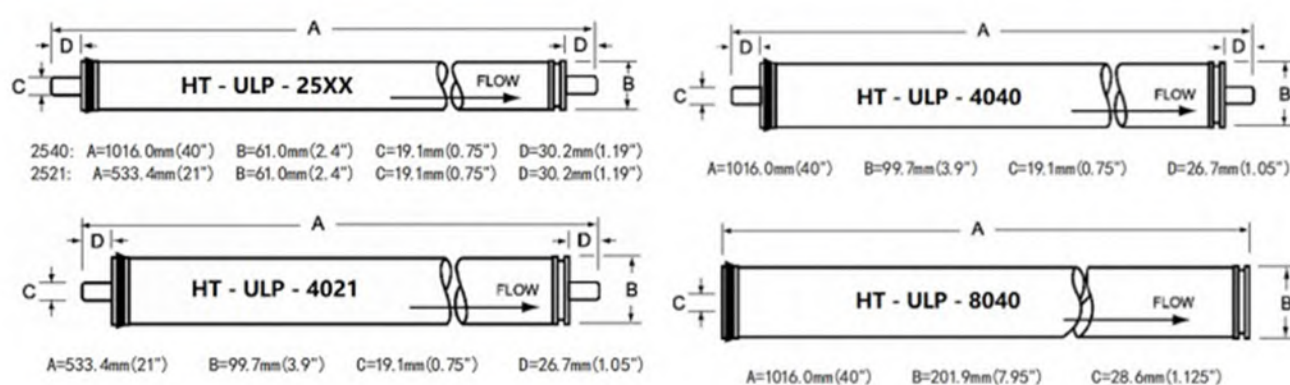
Operation Data

Production floating range	±15%
Maximum feed water temperature	45°C
Maximum feed water SDI15	5
Maximum influent turbidity NTU	1
Maximum residual chlorine concentration	0.1mg/L
Maximum Operating pressure	600psi (4.14Mpa)
Maximum pressure drop of single membrane element	15psi (0.1Mpa)
PH value range of feed water during continuous operation	3~10
PH value range of feed water during chemical cleaning	2~12
Maximum feed water flux	1.4 m ³ /h (Model: 2521, 2540) 3.6 m ³ /h (Model: 4021, 4040) 17m ³ /h (Model: 8040)

Application

- Water reuse
- Boiler make-up water
- Pure water equipment
- Pharmaceutical manufacturing
- Food and beverage production

Tech Support



Order Information

Hongtek	ULP Series Ultra-low Pressure RO Elements	Membrane Element Diameter	Membrane Element Length	Membrane Type
HT	ULP	25 = 2.5"	21 = 21"	HR = High Desalination Rate
		40 = 4"		
		80 = 8"	40 = 40"	HF = High Flow Rate

For example:

HT-ULP-8040-HR

Hongtek - ULP Series RO Membrane Element - Diameter: 8" - Length: 40" - High Desalination Rate

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