



High Water Saving

High Standard

High Salt Rejection

Premium Quality

Long Service Life

Household Element Series

The household NF membrane elements developed by OriginWater Separation Membrane Co., Ltd is an end-use product that is fit for household water purifier. It is a core part for advanced water purification of tap water and other potable water, which can greatly eliminate MOPs and heavy metal ions in water, and save water and energy.

Model	Av. Flux/GPD	Salt Rejection/%	
		250ppmNaCl	250ppmMgSO ₄
N-100G (1812M)	100	> 45 and ≤75	≥90
N-800G (3013M)	800		
N-100G (1812L)	100	> 75 and ≤95	≥95
N-800G (3013L)	800		
N-1000G (3113L)	1000		

Note: Water permeated varies within a range of ± 15%;
Customized Orders can be taken by the Company;

Membrane Element Water Permeation Nominal Value <400GPD:
Test Condition: 0.41MPa, Recovery Rate: 50%;
Membrane Element Water Permeation Nominal Value ≥400GPD:
Test Condition: 0.69MPa, Recovery Rate: 55%;

Household RO membrane elements can effectively remove organics, microorganism, virus and most of the ions in water so as to ensure the safety of household potable water. The particular interface polymerization process of the product can not only ensure high water permeation, but also maintain the sate of compaction for salt reject layer. The surface of membrane is smooth, which is almost electric neutral. Therefore, the pollutant can not be adhered easily, and the membrane has better compaction withstanding and anti-fouling performance, etc.

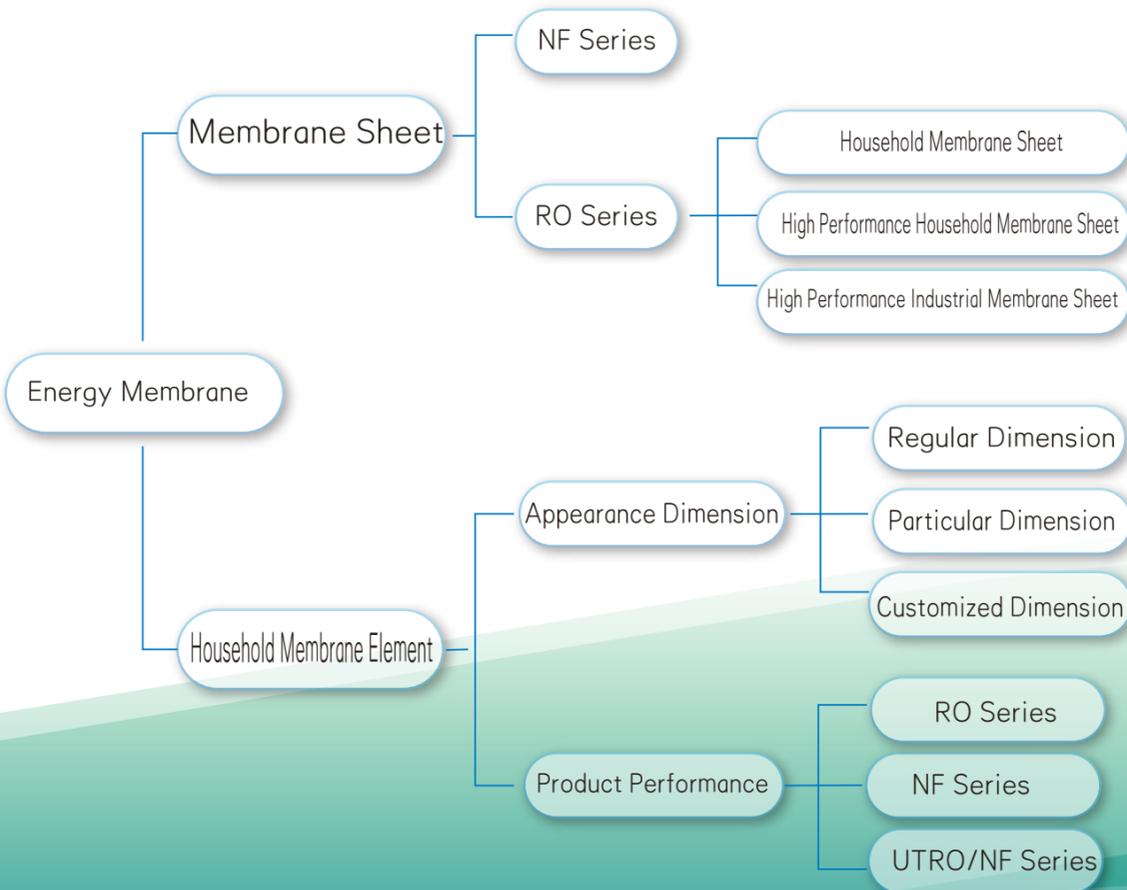
Model	Av. Flux/GPD	Av. Salt Rejection/%	Testing Conditions
R-75G (1812)	75	95	60psi, water efficiency solution, 50% recovery rate;
R-100G (2012)	100	94	
R-400G (3012)	400	94	100psi, water efficiency solution, 50% recovery rate;
R-600G (3012)	600	94	
R-800G (3013)	800	93	
R-1000G (3113)	1000	93	

Note: Water permeated varies within a range of ± 15%;
Customized Orders can be taken by the Company;

The water efficiency solution was mixed according to GB34914-2017
"Minimum Allowable Value of Water Efficiency and Water Efficiency Grades for Reverse Osmosis Drinking Water Treatment Purifiers"

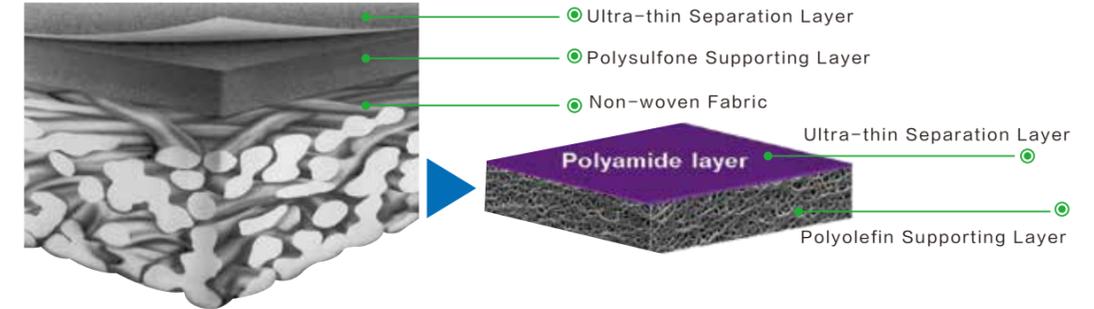


Product Category



UTRO/NF Membrane Elements

UTRO/NF membrane adopts polyolefin diaphragm to replace polyamide composite membrane that uses conventional non-woven fabric with polysulfone as basement membrane, which is the latest membrane material in the world initially developed by OriginWater Separation Membrane Technology. The product has broken the years' technical bottleneck of water treatment industry with its ultra-thinness, good performance of anti-fouling and solvent resistance, leading the direction of the new membrane materials.



Conventional Composite Membrane

UTRO/NF

Product Features

Thickness Advantage: the membrane thickness is less than 20 μm, which is thinner than 1/7 of the conventional RO membrane material thickness, allowing lager membrane area to be feed in under the same element dimension.

Material Advantage: the membrane is not composed of non-woven fabric, nor polysulfone, which has addressed year' s difficulty regarding the membrane material technology;

Product made from the material has good performance regarding acid and alkali resistance, and solvent resistance, which could be applied in more areas.

UTRO Element Performance Parameters

Model	Av. Flux/GPD	Av. Salt Rejection/%	Test Conditions
UTRO-75 (1812)	75	>95	500ppm, NaCl solution, 60psi, 50% recovery rate.
UTRO-100 (1812)	100	>95	
UTRO-400 (3013)	400	>95	
UTRO-600 (3013)	600	>95	

* Customized Order can be taken by the company.



Company Profile

Beijing OriginWater Separation Membrane Technology Co., Ltd is located in HuaiRou Scientific City with an area of more than 13 acres. The company is a high-tech company that belongs to China Communication Construction Company Group, of which the registered trade mark is “Energy Membrane” , dedicating to R&D, manufacturing and service providing of RO, NF, UF and MF membrane products. The company owns a whole enterprise chain of membrane with its own full intellectual property rights. Adhering to a market-oriented product development strategy, Beijing OriginWater Separation Membrane Technology Co., Ltd primarily focuses on 5 critical areas that are “ Municipal Sewage Water Resource Utilization, Seawater Resource Comprehensive Utilization, Premium Potable Water, Industrial Resource Comprehensive Utilization and New Energy” , dedicating to providing integrated solution to “ Water Environment Governing, New Water Resource Developing, Potable Safety and Urban Ecological Environment Construction” by applying the membrane technology. Meanwhile, the company can also provide its customers with premium membrane products, application technological support and OEM/ODM one stop service.

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Household Membrane Product Manual

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