

Residential RO Membrane Elements

Applications

Residential reverse osmosis membrane elements are rolled with ultra-low pressure aromatic polyamide composite reverse osmosis membrane flat sheets.

This product is generally suitable for treatment of raw water with salinity less than 1000mg/L. It has the characteristics of high rejection rate and low operating pressure. It is mainly used in small direct drinking water devices at home or office.

Benefits

- High Rejection
- Extra-low Operating Pressure



Specifications

Model	Active Area ft ² (m ²)	Permeate Flow Rate GPD(m ³ /D)	Salt Rejection (%)		Application Type
			Test Method A	Test Method B	
RO- 1812-75	4.2(0.39)	75(0.28)	92.00	96.00	High Economy

Standard Test Condition

Test Methods	Solution	Temperature (°C)	pH	Operating Pressure psi(MPa)	Recovery (%)	Applicable for
A	500 mg/L (NaHCO ₃ 、 CaCl ₂ 、 NaCl)	25	7.5-8.0	60 (0.41)	50	RO-1812-75
B	250 mg/L (NaCl)	25	7.5-8.0	60 (0.41)	20-30	RO-1812-75

Permeate flow for individual elements may vary±15%,salt rejection may vary ±2%.

The product meets the water efficiency requirements of Grade 3 and above in the “Restricted Value and Water Efficiency Grade of Reverse Osmosis Water Purifiers” in GB34914-2017.

Operating Limits

Maximum Operating Pressure	300psi(2.07MPa)
Maximum Operating Temperature	45°C
Maximum Feed Silt Density Index (SDI ₁₅)	5.0
Free Chlorine Tolerance	0.1mg/L
pH Range,Continuous Operation	3- 10
pH Range,Short-Term Cleaning	2- 12
Maximum Element Pressure Drop	10psi(0.07MPa)

All pictures for reference only.Please contact Motto for further advise.

