

▶ ACNF Series

Acid-Resistant Nanofiltration Membrane Elements Series

Product Performance and Features

The special membrane material preparation technology is adopted, enabling the membrane products run stably for a long time in an extremely acid environment. Membrane element products can be used in scenarios such as acid purification and concentration, concentration and separation of metal ions and salts in acidic streams.

Product Parameters

Membrane element model	Salt rejection (%)	Average yield GPD(m ³ /d)	Application environment
ACNF-4040	98.0	1000(3.8)	20% sulfuric acid; 20% hydrochloric acid; 4% nitric acid; 30% phosphoric acid
ACNF-8040	98.0	5000(18.9)	
ASNF-4040	97.0	2000(7.5)	
ASNF-8040	97.0	10000(37.9)	

Test conditions

Test pressure	110 psi
Test solution temperature	25±1 °C
Test solution concentration	2000 mg/L MgSO ₄ (ACNF) 2000 mg/L MgCl ₂ (ASNF)
Recovery rate of single membrane element	15%

Extreme conditions

Maximum operating pressure	600 psi(4.14 MPa)
Maximum feed water flow	75 gpm(17 m ³ /h)(8040) 16 gpm(3.6 m ³ /h) (4040)
Maximum feed water temperature	45°C
Maximum feed water SDI ₁₅	5
Feed water free chlorine concentration	<0.1 mg/L
Maximum pressure drop of single membrane element	15 psi(0.1 MPa)

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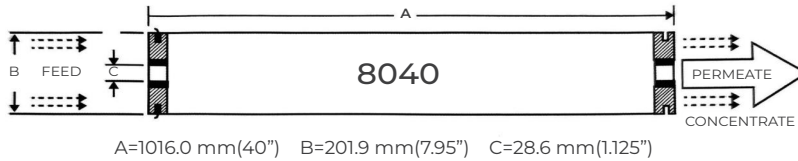
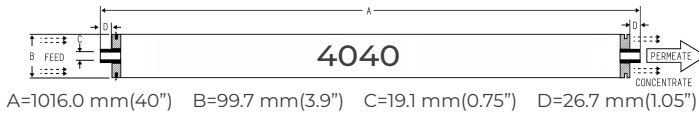
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Membrane element dimensions



Important information

1. The water production values listed in the table are average values, and the water production error of a single membrane element is within 20%.
2. The permeate produced in the first hour of initial use of the membrane element shall be drained and not used.
3. Dry membrane elements are shipped without preservation solution. Once wetted, the elements must be kept moist at all times.
4. Feed water pressure should be increased gradually over a period of 30–60 seconds; otherwise, irreversible damage to the membrane element may occur.
5. Back pressure on the permeate side must be avoided at all times.
6. Wet membrane elements are tested with water before shipment, preserved in a 1.5% sodium bisulfite solution (with 10% propylene glycol antifreeze added in winter), and then vacuum-packed.
7. For long-term system shutdowns, to prevent microbial growth, it is recommended that membrane elements be immersed in a 1.5% (by weight) food-grade sodium bisulfite preservation solution, which should be replaced regularly.

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