

03 3ENF-05 NF MEMBRANE

Introduction

With high water flux and impurity removal rate, 3ENF-05 high-flux membrane achieves high performance in desalination pretreatment, removing viruses, bacteria, reducing hardness, mitigating fouling of subsequent RO membrane. It has low energy consumption, greatly reducing desalination cost, and is suitable for high-quality household water production.

It has been used for:

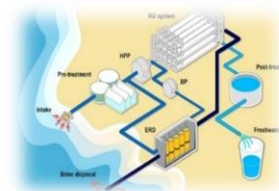
- Water reuse projects, replacing UF membranes for RO pretreatment, reducing maintenance cost
- Direct drinking water projects, substituting double-membrane process, greatly lowering cost

Applications

- Material separation
- Zero discharge of wastewater
- Household drinking water terminal purification
- Whole-house water purification
- Seawater desalination pre-filtration



Zero Discharge of Wastewater



Desalination

Parameters

Mat'l	Module No. (Size, mm)	Eff. Mem. Area: m ²	Designed Water Flux t/module/day	Salt Rejection (%) 2000ppm MgSO ₄	Max Free-Chloride Resistance; ppm	Max Opt. Pressure / (Max pH Range)
PES	3E-160NF05F (Ø160×1200)	23.5±0.5	41.5±1.0	4.5±1.0	1000	3.0bar/(2-12)
	3E-200NF05F (Ø200×2000)	63.0±0.5	110.0±1.0	4.5±1.0	1000	3.0bar/(2-12)
Test Conditions	1) Water temperature 25°C; pH 7.5-8.0, test pressure 3.0bar; 2) Outside-in membrane module, temperature 5-40°C, max. backwash 0.5bar, max. operating 3.0bar 3) ID/OD: 0.50/0.98mm					

Note: For engineering design parameters and information, please consult with our technical staff and obtain the latest version of the technical manual.