

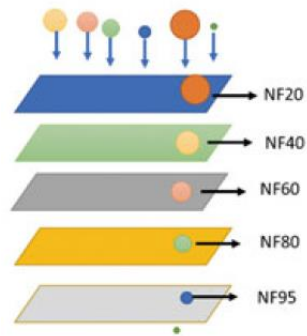
# 08 3ENF-80 NF MEMBRANE

## Introduction

The 3ENF-80 NF membrane series has high rejection characteristics, exhibiting excellent separation performance in brackish water purification and wastewater reuse. Widely used in material separation and treatment of industrial and municipal wastewater rich in organic pollutants. It removes not only TDS but also biological pollutants, greatly improving permeate quality.

3ENF-80 has been applied for:

- Zero liquid discharge: Efficient removal of ammonia-nitrogen and heavy metals in high concentration wastewater with low energy consumption (Singapore).
- Reducing TDS and organic pollution, decreasing chemical usage, increasing cooling tower system CoC, and reducing discharge volume (Singapore).
- Industrial wastewater reuse (UK).
- Zero liquid discharge of concentrated wastewater (Singapore).



## Applications

- Material separation
- Wastewater treatment in food and beverage industry
- Brackish water treatment
- Condensate tower wastewater reuse
- Municipal wastewater reuse
- Boiler water purification
- Industrial wastewater reuse
- Coal mine industrial wastewater treatment
- Salt separation technology, recycling of sulfate

## Parameters

Mat'l	Module No. (Size, mm)	Eff. Mem. Area: m <sup>2</sup>	Designed Water Flux t/module/day	Salt Rejection (%) 2000ppm MgSO <sub>4</sub>	Max Free-Chloride Resistance; ppm	Max Opt. Pressure / (Max pH Range)
PES	3E-160NF80F (Ø160×1200)	23.5±0.5	4.5±0.5	75.0±5.0	1000	5.0bar/(2-12)
	3E-200NF80F (Ø200×2000)	63.0±0.5	13.5±0.5	75.0±5.0	1000	5.0bar/(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 pressure 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.

