

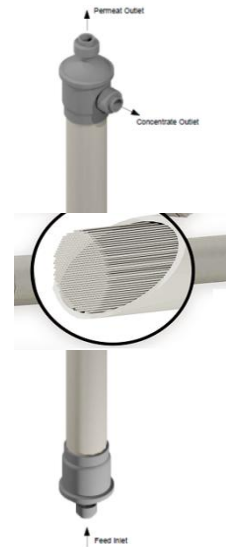
Hollow Fiber Nanofiltration Membrane

NÜF® N80-3040 NF element

Feature

With breakthroughs in membrane materials and element structure, Ochemate Advanced Material Technologies Co. Offers NÜF® N80-3040 nanofiltration membrane elements with hollow fiber structure for commercial application. NÜF® N80-3040 has super-high permeability under extremely low pressure and provides unique comprehensive advantages for commercial users.

- High hardness removal, high efficient toxic metals removal such as copper, cadmium, chromium, lead, mercury, antimony and arsenic.
- High small organic molecule removal (such as antibiotics, endocrine disruptor, etc.) and reduce COD in water.
- Under 3.0 bar operating pressure, the membrane flux can exceed 30 LMH. Compared with the competitors, N80-3040 has 35% lower operation pressure under the same flux.



Hollow fiber nanofiltration membrane NÜF® N80-3040 NF element can efficiently remove colloids, bacteria, viruses, organic matters and other harmful substances in water and retain beneficial minerals and trace elements in product water for commercial applications. It can be widely used to make drinking water in commercial office buildings, dining halls, canteens, hotels, schools, hospitals, airport stations and other public places. As an innovative purification membrane, it can achieve both safety and health of drinking water.

NÜF® N80-3040 NF element has the typical characteristics of all NÜF® product series:

- Unique hollow fiber structure.
- Real selective filtration. Harmful compounds are removed while maintaining beneficial compounds. The permeate water quality meets the “Healthy Water” standard requirements.
- Permeate water has better taste.
- High permeate flux under low operating pressure.

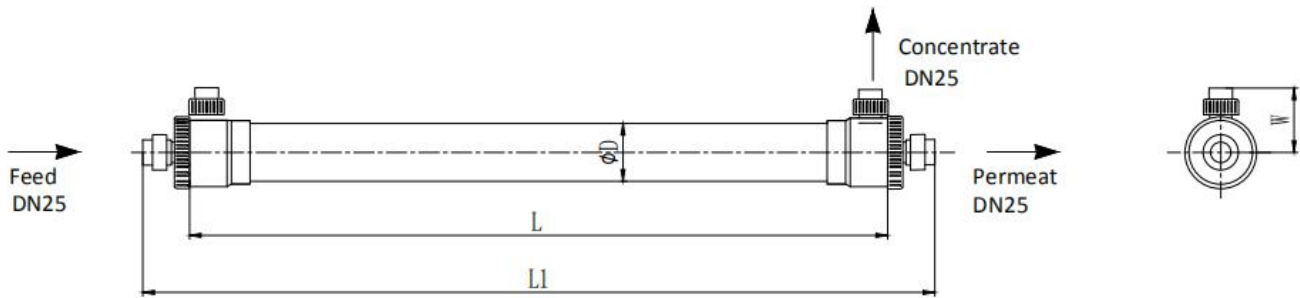
Product Types TFPF integrated film forming technology & modified polyamide as base material.

Product Specifications

Product	Active area (m ²)	Applied pressure		Permeate flow rate		Stabilized salt rejection (%)
		(psig)	(MPa)	(gpd)	(L/min)	
N80-3040	10	45	0.31	2000~2400	5~6	MgSO ₄ ≥ 90% CaCl ₂ ≥ 60% NaCl ≤ 25%

1. Test standard of permeate flow rate and salt rejection rate:
250 ppm MgSO₄ / 250ppm NaCl / 250ppm CaCl₂, 77°F (25°C), 15% recovery rate, pH 7.
2. Minimum MgSO₄ salt rejection is 90%. (GB/T 30306-2013).
3. Permeate flow rate is 2000GPD. Permeate flow of single element may vary +/-20%.
4. The above specification values are nominal test values. When operating, please follow the design guidelines of NÜF® membrane system.

Element Dimensions



Dimensions (mm)	L	L1	D	W
N80-3040	1100	1235	φ90	110

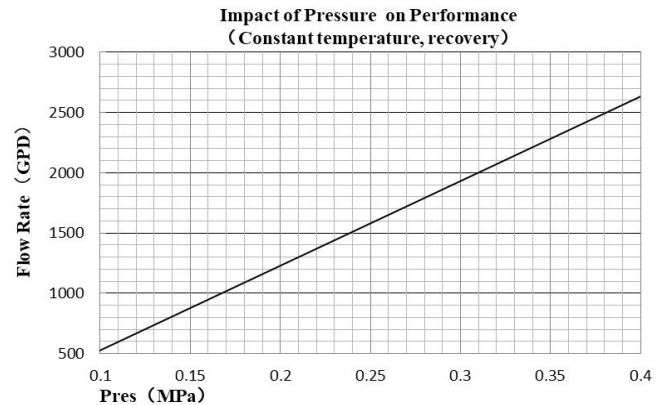
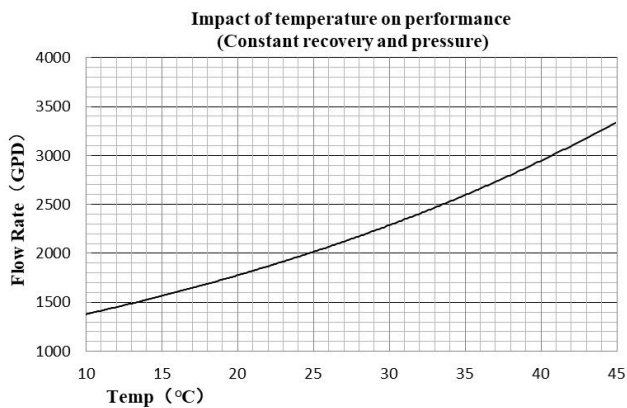
Commercial NÜF® N80-3040 NF elements can be used without pressure vessels.

Guidelines

Recommended operating temperature	5°C ~ 45°C (113°F)
Recommended operating pressure	0.1 ~ 0.4 MPa (58 psi)
Recommended operating pH range	4 ~ 10
Feed water SDI ₁₅	<5
Recommended feed water residual chlorine	<0.1 ppm

* Note: The tolerance range of pH is a parameter at 25 °C.
When the temperature increase, the tolerance range will narrow.

Other Information



* Note: High operating flux can be obtained at very low operating pressure.

General Information

- At the first use, it is suggested that rinse the protective agent from NÜF® membrane through connecting water for one hour. Please discharge the permeate water from this one hour.
- Membrane elements should always be kept moist after initial use.
- Membrane elements have a short-term resistance to free chlorine and other oxidants. Long-term contact may lead to damage of membrane fibers. Continuous exposure of membrane components to free chlorine or other oxidants should be avoided.
- Back pressure on the permeate side should be avoided at all times.

Operation Guidelines

- In order to ensure the normal use of NÜF® membranes and avoid damage, the regulations on packaging, transportation and storage of NÜF® membranes should be strictly observed. Sudden pressure changes should be avoided during start-up, shutdown, cleaning and other processes to prevent damage to the membrane.
- Before starting the system, the membrane pretreatment, membrane module installation, piping, valves, instrumentation and other systems should be checked.
- The system with NÜF® elements should be started correctly, and the correct start-up procedure should be followed. NÜF® membrane system should be flushed before start-up to remove transportation protective agent.
- The automatic operation, cleaning and shutdown of the NÜF® membrane system should comply with the corresponding procedures and operating specifications.
- For more details, please refer to the product technical manual.

**Important Notes**

Limited warranty of products will be invalid if the operation requirements in this specification and product technical manual are not strictly observed.

Please contact your Ochemate Representative for more information, and to discuss any other options that may benefit or be required for your NÜF® application.

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