

FG-SpiraCore™ N96M HT Nanofiltration Membrane Element Series

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PCI Membranes® sanitary nanofiltration (NF) membrane elements are used by food and dairy processors for a variety of desalting, purification and other separations. All N96M elements contain an improved nanofiltration membrane designed to reject organics with a MWCO more than 400 Daltons while passing monovalent salts. The N96M HT Series is designed with temperature resistance up to 80°C (176 °F).



Characteristics

Membrane	N96M
Material	Polypiperazine
Outer wrap	Net wrap

Regulatory Status

Compliant with US FDA CFR Title 21, EC Reg. No. 1935/2004, and EU Reg. No. 10/2011. Halal certificate by the Islamic Food and Nutrition Council of America (IFANCA). Kosher certificate by Committee of Kashrut.

Limits

Max Operating Pressure	32.2 bar (470 psi) at 60°C (140°F) 27.6 bar (400 psi) at 70°C (158°F) 24.1 bar (350 psi) at 80°C (176°F)
Max Pressure Drop	0.5-1 bar (7.3 - 14.5psi) per element @30°C (86°F) 0.3 bar (5 psi) per element @70°C (158°F)
Max. Operating Temperature	80 °C (176 °F)
Operating pH range	2 - 10
Cleaning pH Range	1.8 - 11
Free Chlorine Tolerance	Non-detectable

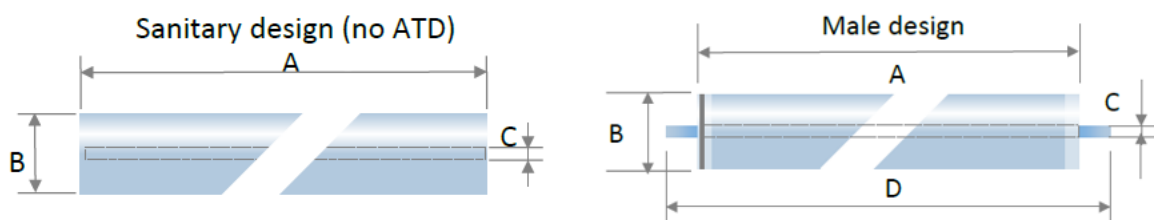
Area ft² (m²)

Spacer	N2540	N3838	N8038
31 mil	24 (2.2)	75 (7.0)	58 (5.4)
46 mil	19 (1.8)	344 (32)	290 (27)

Updated 28 September 2026

Notes:

- (1) For the purpose of improvement, specifications may be updated periodically
- (2) Consult PCI Membranes® when intending to operate at elevated pressure, temperature, or concentration.
- (3) For the product name, please refer to the annex in the last page.



Dimensions

Size	A ^[1] [mm (inch)]	øB ^[2] [mm (inch)]	øC ^[3] [mm (inch)]	D [mm (inch)]
N2540-96M-047-XX-S00 ^[4]	965 (38)	62 (2.4)	19 (0.748)	1016 (40)
N3838-96M-047-XX-S02 ^[4]	965 (38)	96 (3.8)	21 (0.827)	/
N8038-96M-047-XX-S02 ^[4]	965 (38)	200.5 (7.9)	28.9 (1.138)	/

[1] Tolerance: -2~0mm

[2] Tolerance: -2~0mm

[3] 3838 tolerance: ±0.1mm, 6338/8038 tolerance: -0.2~0 mm

[4] XX: 31 mil or 46 mil

Handling

Water quality for cleaning and diafiltration. Maximum feed turbidity is 1 NTU. Maximum feed SDI is 5.0 (15 minutes test).

Operation. The stated operating conditions are valid provided that the requirements for installation, cleaning, water quality, and preservation are followed. Only PCI Membranes®-approved cleaning detergents, antifoam agents, polymers, other chemicals, and filter-aid lubricants may be used. For further questions, do not hesitate to contact our service engineer.

Lubricants. During installation, use only water or glycerin to lubricate seals. The use of petroleum or vegetable-based oils or solvents may damage the element and void any warranty.

Preservation and Storage. Plan ahead to use new membranes. The element should be stored in a sealed bag, at 4 – 30 °C (39 – 86 °F). Storage solutions should be made with: 1 % w/w sodium metabisulfite.

Chemical Exposure. Residual chlorine concentration during cleaning cycle (CIP) should be 150 ppm @ pH 10.5 or higher. Chlorine concentration should never exceed 200 ppm.

Cleaning. PCI Membranes® modules may be put into production after having gone through the first cleaning prescribed by PCI Membranes® on product packing notes or given differently by PCI Membranes®.

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