

WRC200 dNF80 Integrated Rack Design

nx
filtration



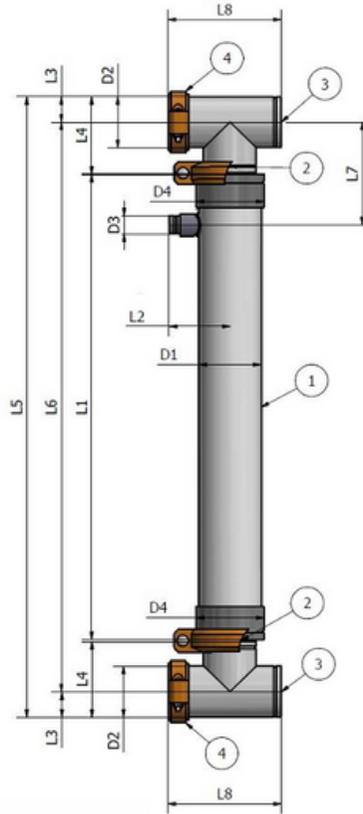
Hollow fiber nanofiltration membrane module for water and wastewater applications

Product description

The WRC200 dNF80 Integrated Rack Design nanofiltration modules have the following features:

- Use for treatment of ground and surface water; reuse of industrial and municipal wastewater effluents;
- Excellent removal of color, turbidity and dissolved organics, including some micropollutants;
- Inside-out operation in a cross-flow filtration mode, backwashable;
- Limited pretreatment required, no coagulation and no sludge production;
- Vertical mounting in a skid
- Excellent pH and chlorine tolerance.

“Technical information herein are believed to be accurate at the date of publication.”



Membrane Surface Area 50 m² (538 ft²)

Module Dimensions:

- L1** 1534 mm (60.39")
- L2** 196 mm (7.71")
- L3** 84 mm (3.30")
- L4** 256 mm (10.07")
- L5** 2046 mm (80.55")
- L6** 1878 mm (73.94")
- L7** 339 mm (13.35")
- L8** 365 mm (14.37")

- D1** 200 mm (7.87")
- D2** 168 mm (6.61")
- D3** 2.0" Victaulic Style 75
- D4** 219 mm (8.62")

Membrane Specification

Membrane material	Modified PES
MWCO	800 Dalton
Min. MgSO ₄ rejection	76%
Membrane charge	Negative @ pH=7
fiber inner diameter	0.7 mm

Typical operating ranges

Max. system pressure	10 bar (145 psi)
Max. backwash pressure	6 bar (90 psi)
pH range during operation	2-12
Max. TSS	300 ppm
Max. turbidity	150 NTU
Max. particle size	150 μm

NX Filtration × Cypress

Pure Technology Partnership

**WMC200
UF150 LD
&
WRC200
dNF80**

WMC200 UF150 LD - ultrafiltration

General Informations

The WMC200 UF150 LD ultrafiltration module is designed for water treatment, as well as industrial and municipal wastewater reuse. The larger inner fiber diameter of makes these modules ideal for high turbidity application, allowing more efficient cleaning. These modules excel in removing turbidity, suspended solids, and virus and bacteria. The modules offer outstanding pH and chlorine resistance, excellent mechanical strength of the fibers, and improved fouling behaviour compared to existing ultrafiltration membranes.

Membrane Characteristics

Membrane material	Modified PES
MWCO	150 kDa
Fiber inner diameter	1.3 mm (0.051")
Pore size	0.02 µm
Permeate turbidity	≤ 0.07 NTU
Virus removal	≥ 4 log
Bacteria removal	≥ 5 log
Filtration mode	Inside-Out; Vertical
Operation mode	Dead-end or cross-flow

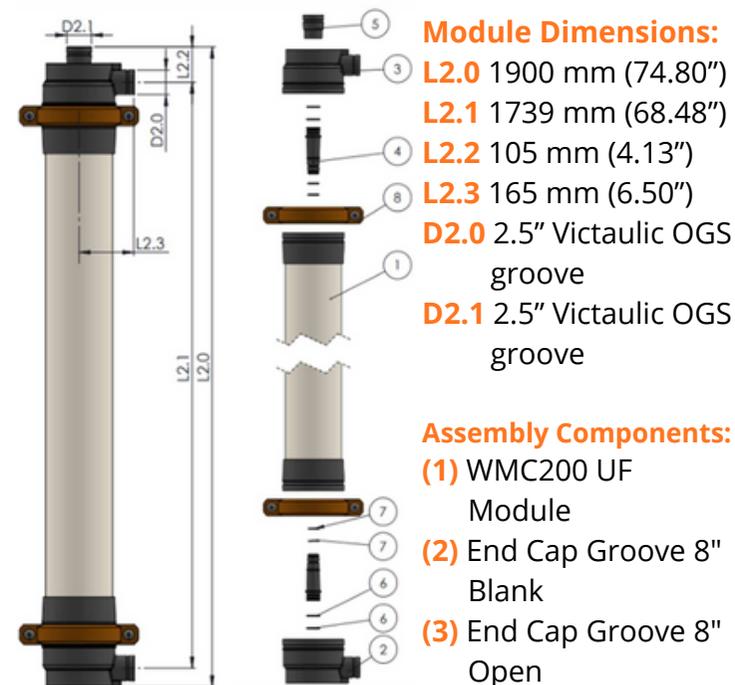
Operating Conditions

Typical flux	50 - 100 l/m² /h
Backwash flux	100 - 250 l/m² /h
Max. system pressure	5 bar (72 psi)
Max. transmembrane pressure	2 bar
Max. backwash pressure	2 bar (29 psi)
Max. turbidity	200 NTU
Max. Temperature	40°C (104°F)
pH range during operation	2-12
pH range during cleaning	1-13

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Why Choose Our Ultrafiltration (UF) & Nanofiltration (NF) System?

Proven Performance You Can Trust Free Technical Consultation & Expert Support. When you purchase your UF system through us, you don't just get equipment—you get a partner. We provide free technical consultation, from system selection and design advice to operational guidance, helping you maximize performance from day one.



- (4) WMC200 groove permeate port
- (5) Permeate endcap connector
- (6) O-ring EPDM Ø40.8x4.6 mm
- (7) O-ring EPDM Ø34x4 mm
- (8) Victaulic Coupling Style 75 8" Gasket E

NX Filtration × Cypress

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