



WRC200 dNF40 integrated Rack Design

Technical Datasheet

Hollow fiber nanofiltration membrane module for water and wastewater applications



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Product description

The WRC200 dNF40 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, divalent ions and dissolved organics, including micropollutants;
- Inside-out operation in a cross-flow filtration mode, backwashable;
- O Limited pretreatment required, no coagulation and no sludge production;
- Vertical mounting with rack connection capability;
- Excellent pH and chlorine tolerance;

Membrane specifications

Membrane material	Modified PES
MWCO ¹	400 Dalton
Min. MgSO ₄ rejection ²	91%
Membrane charge	Negative @ pH=7
Membrane fiber inner diameter	0.7 mm

¹ Molecular Weight Cut-Off (MWCO) is an estimation as it depends on size, shape, charge and polarity of the compound being tested, as well as test conditions.

² Test conditions: 5.0 mMol/L MgSO₄, 3.0 bar, 25°C, v=0.5 m/s.

Typical operating ranges

Max. system pressure ³	10 bar (145 psi)
Max. transmembrane pressure ³	6 bar (90 psi)
Max. backwash pressure ³	6 bar (90 psi)
Max. temperature during operation & cleaning	40°C (104°F)
pH range during operation	2-12
pH range during cleaning	1-13
Max. active chlorine concentration	500 ppm @ pH>10
Max. cumulative active chlorine exposure	250,000 ppm-hours @ pH>10
Cross-flow velocity range ⁴	0.1 – 1.0 m/s (2.25 – 22.5 m ³ /h per module)
³ Maximum pressures at 20°C.	0.33 – 3.3 ft/s (9.9 – 99 gpm per module)

⁴ Recommended velocity depends on feed water quality.

Feed water specifications

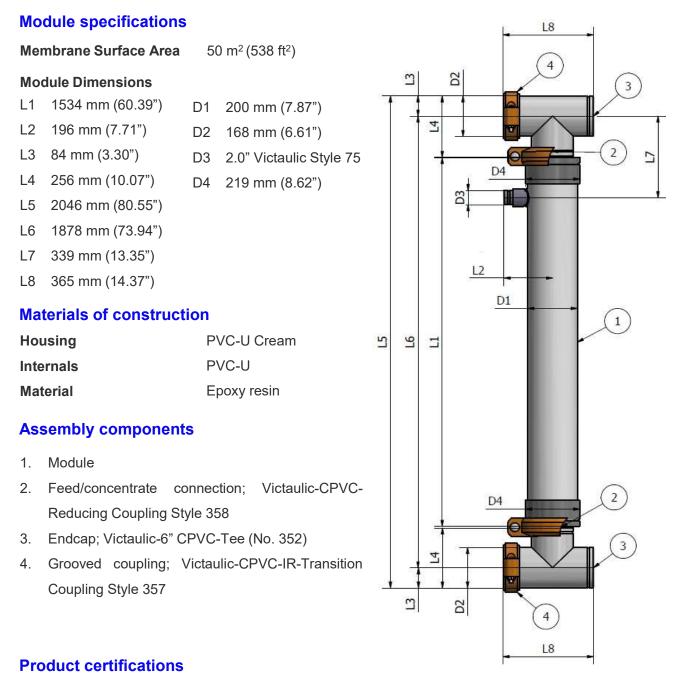
Max. TSS	300 ppm
Max. turbidity	150 NTU
Max. particle size	150 µm



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Weight information

- Module (without accessories): 33.5 kg (74.5 lbs);
- Module with all accessories (2 endcaps + grooved couplings): 52 kg (115.5 lbs);
- Module full of water and all accessories: 88 kg (194 lbs);

Storage instructions

- New modules in original packaging can be stored for max. 1 year from shipping date in a dry place, protected from sunlight or any heat source, at temperatures between 0 and 40°C (32 and 104°F);
- Ex-factory storage solution: 79% water, 20% glycerin and 1% sodium bisulfite;

Shipping information

- · Each module is individually packed in a vacuum sealed plastic bag;
- For small quantities, modules and endcaps are shipped in separate cardboard boxes;
- For large shipments, modules are loaded in a wooden crate with a max. of 20 modules per crate. Crate dimensions: 102 x 126 x 174 cm; 40 x 50 x 68 in (L x W x H)
- Shipping weight per module: 34.5 kg (76.5 lbs.);
- Shipping weight per endcap set: 18 kg (40 lbs.);
- Shipping weight per crate (20 modules), excl. endcap sets: 732.5 kg (1630 lbs.);

Release WRC200 dNF40 IRD -TDS 20210316

+61 2 9089 8833 info@hydrofluxepco.au www.hydrofluxepco.au/

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