



# Membrane Technologies Canada Inc.

## FACT SHEET

### Tubular Membrane PermaFlow-1



MEMBRANE PROPERTIES	
Maximum operating pressure	6.2 bar (90 psig) @ 65°C (149°F)
Maximum operating temperature	65°C (149°F)
Recommended feed flow	95-130 L/min (25-35 USGAL/min)
Maximum transmembrane back pressure	0.3 bar (5 psi)
Minimum concentrate pressure	0.69 bar (10 psig)
Feed pH range (continuous operation)	3-10.5
Feed pH range (cleaning: <1hr @ 50°C)	2-11

MODULE SPECIFICATIONS	
Configuration	Single 25mm (1.00 in) ID tube
Nominal membrane surface area	0.218 m
Membrane available	UF75
Weight of module (drained)	1.25 kg (2.75 lb)
Tube (feed/concentrate) side hold-up volume	1.4 L (0.37 gal)
Shell (permeate) side hold-up volume	0.08 L (0.02 gal)

*Wet module weight does not include any accumulation of solids during operation.*

CLEANING LIMITS	
Maximum NaOCl exposure (lifetime contact time)	1,000,000 mg/L hours*
Maximum cleaning temperature	40°C (104°F)
Cleaning pH range	2-11 (<30°C); 2-10 (<40°C)
Maximum concentration for OCl <sup>-</sup> cleaning*	2,000 mg/L (<30°C); 1,000 mg/L (<40°C)

*\*Concentrations >1,000 ppm not recommended for more than 60 minutes of cumulative contact time per month.*



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