

# Tubular Membrane PermaFlow-12

Specification		
Configuration		Twelve 21mm (0.83 in) ID tubes in parallel
Nominal membrane surface area:	12 ft length	2.9 m <sup>2</sup> (31.5 ft <sup>2</sup> )
Membrane surface properties		Non-ionic & hydrophilic
Nominal membrane pore diameter		0.1 & 0.08 micron
Nominal molecular weight cut-off		100k & 75k Dalton
Maximum dry shipping weight		20 kg (44 lb)
Maximum weight of wet module		51 kg (112 lb)
Maximum hold-up volume		31 L (8.2 gal)



Cleaning Limits	
Maximum OCI exposure (lifetime contact time)	2,000,000 ppm hours
Maximum cleaning temperature	40°C (104°F)
Cleaning pH range	2-11 (<30°C); 2-9 (>30°C)
Maximum concentration for OCI- cleaning**	2,000 ppm (<30°C); 500 ppm (>30°C)

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

Operating Limits	
Maximum permeation transmembrane pressure	552 KPa (80 psig)
Typical operating transmembrane pressure	345-552 KPa (50-80 psig)
Maximum operating temperature	50°C (122°F)
Operating pH range	5-9.5
Maximum back pressure transmembrane pressure	<6 kPa (<1 psig)
Typical cross flow velocity range	0.068-0.84 m <sup>3</sup> /min (18-22 USGPM)

Contact GE prior to use in conditions of high pH or high OCI- at high temperature.



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