RO membrane specifications "100 gpd" TFC

http://www.isopurewater.com/products/dow-filmtec-tw30-1812-series-replacementreverse-osmosis-tfc-membrane.html

FILMTEC reverse osmosis membrane elements for home drinking water are the industry's most reliable. Advanced membrane technology and automated fabrication allow these elements to deliver consistent performance that equipment suppliers, water treatment dealers, and residential customers can rely on. FILMTEC elements are shipped dry for convenient handling and long shelf-life. These elements are NSF/ANSI Standard 58 listed.

FILMTEC home drinking water elements are rated at 50 psi and will purify about 20% more water than competitive elements rated at 60 psi.

Available Membranes:

- TW30-1812-24 -- 24 GPD @ 50 PSI
- TW30-1812-36 -- 36 GPD @ 50 PSI
- TW30-1812-50 -- 50 GPD @ 50 PSI
- TW30-1812-75 -- 75 GPD @ 50 PSI
- TW30-1812-100 -- 100 GPD @ 50 PSI

Specifications:

- Dimensions: 1.8" Diameter x 12" Length
- Weight: 15 oz
- Fits most conventional units
- Membrane Life: 2-5 years
- Operating Pressure: 40 psi to 145 psi
- Operating Temperature: 40-100 F

FILMTEC TFC membrane specifications "100 gpd" TFC

http://www.dow.com/liquidseps/prod/prd_film.htm

www.filmtec.com got the above

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Summary:

I recommend using FILMTEC reverse osmosis membrane element TW30-1812-75 – rated at 75 GPD & 50 PSI (77 degree F). They make a 100 GPD but the salt rejection is only 90% where as the 75 GPD is 98%. The operating pressure range is 40 psi to 145 psi with a maximum of 300 psi. The operating temperate is 40 to 100 degree F with a maximum of 113 degree F. Dimensions fit a standard home housing: 1.8" Diameter by 12" long. Weight 15 oz. Membrane life: 2-5 years. Will work up to 2000 ppm. A 10 degree temperature increase or decrease will increase or decrease the flow rate by 15 gpd. The flow rate of Individual elements may vary by as much as 20%. The flow rate at 60 psi is about 93 GPD, 70 psi – 110 GPD, 80 psi – 128 GPD, and 90 psi – 145 GPD.

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		Electron Microscopy		Optical Microscopy		✓ Visible to Naked Eye	
Ionic Range		ar Range	Macro Molecular Range	Micro Particle F	lange Macr	o Particle Range	
					10 10 ⁵	100 110 10 ⁶	
Mol.Wt.range 100 2	00 1,000 10,000 20	,000 100,000	500,000				
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Oil Emulsions							
	ugars	Carbon Black	I Paint Pign	nent i			
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Soluble S		Virus	Mycopiasm ,	Bacteria	ļI		
L(1015)	/I		loids	Red Blood Cells		Sand	
Metal lons		teins / Enzymes			L Hur	nan Hair	
REVERSE OSMO	SIS		MICROFILTRATIC	DN			
NANC	FILTRATION						
ULTRAFILTRATION				PARTICLE FILTRATION			
Note: 1 Angstrom Unit = 10^{-10} Meters = 10^{-4} Micrometers (Microns)							

http://www.dow.com/liquidseps/prod/prd_film.htm