

RO membrane specifications "100 gpd" TFC

<http://www.isopurewater.com/products/dow-filmtec-tw30-1812-series-replacement-reverse-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

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[http://www.dow.com/liquidseps/prod/prd\\_film.htm](http://www.dow.com/liquidseps/prod/prd_film.htm)

[www.filmtec.com](http://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 temperature

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.

[http://www.dow.com/liquidseps/prod/prd\\_film.htm](http://www.dow.com/liquidseps/prod/prd_film.htm)

