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› DOW FilmTec BW60-1812-75 75 GPD Home RO Membrane Element Instruction Manual

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Model: BW60-1812-75

1. PRODUCT OVERVIEW

The DOW FilmTec BW60-1812-75 is a high-quality reverse osmosis (RO) membrane element designed for home drinking water systems. Utilizing advanced polyamide thin-film composite technology, this element provides reliable and consistent performance for filtering impurities and pollutants, delivering high-quality drinking water. It is NSF/ANSI Standard 58 listed, ensuring compliance with strict health and safety standards.

Key Features:

- 75 Gallons Per Day (GPD) capacity, equivalent to 12 Liters per hour.
- Achieves 99% stabilized salt rejection (minimum 97%).
- NSF/ANSI Standard 58 listed for material safety and performance.
- Membrane dimensions: 11.75 inches overall length, 1.75 inches diameter, fitting standard 2-inch ID membrane housings.
- Replaces Filmtec Model TW30-1812-75.



Figure 1: DOW FilmTec BW60-1812-75 Reverse Osmosis Membrane Element. This image shows the blue cylindrical membrane with its white end caps and the label indicating the model number.

2. INSTALLATION AND SETUP

This section outlines the procedure for installing or replacing the DOW FilmTec BW60-1812-75 RO membrane element in a compatible housing. Ensure your RO system is depressurized and turned off before beginning.

Pre-Installation Checklist:

- Ensure the new membrane is the correct model (BW60-1812-75) and size for your RO system.
- Gather necessary tools: housing wrench (if applicable), clean cloth, and a bucket.
- Turn off the water supply to the RO system and relieve system pressure by opening a faucet.

Replacement Procedure:

1. **Remove Old Membrane:** Unscrew the membrane housing cap. Carefully pull out the old membrane element. Dispose of the old membrane according to local regulations.
2. **Clean Housing:** Inspect the inside of the membrane housing for any debris or scale. Clean thoroughly with a mild soap solution and rinse well.
3. **Prepare New Membrane:** Remove the new DOW FilmTec BW60-1812-75 membrane from its packaging. Ensure the O-rings are properly seated on the brine seal and permeate tube.
4. **Insert New Membrane:** Carefully insert the new membrane into the housing, pushing firmly until it is fully seated. The end with the two small O-rings (permeate tube) should go in first, ensuring a snug fit into the receptacle at the closed end of the housing.
5. **Secure Housing:** Replace the housing cap and hand-tighten it. If necessary, use a housing wrench for a final snug turn, but do not overtighten.
6. **Restore Water Supply:** Slowly turn on the water supply to the RO system. Check for any leaks around the membrane housing.
7. **Flush System:** Allow the system to run and fill the storage tank. For the first 24 hours after installation, drain the first two full tanks of water to flush out any manufacturing preservatives and fine particles. This ensures optimal performance and taste.

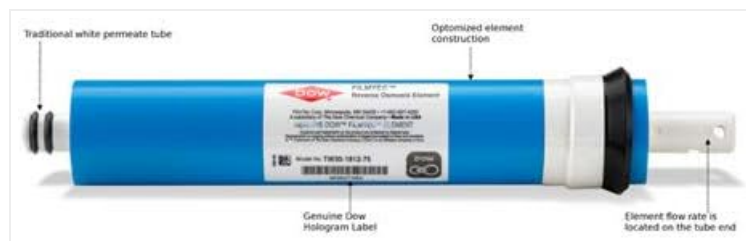


Figure 2: Labeled diagram of the DOW FilmTec BW60-1812-75 membrane element, showing the traditional white permeate tube, optimized element construction, genuine Dow Hologram Label, and element flow rate location.

3. OPERATING GUIDELINES

Once installed and flushed, your DOW FilmTec BW60-1812-75 membrane will begin producing purified water. Observe the following guidelines for optimal operation:

- **Initial Production:** It may take several hours for the RO storage tank to fill completely after a new membrane installation.
- **Water Quality:** The membrane is designed to reduce Total Dissolved Solids (TDS) and other impurities. Periodically test your water quality to monitor performance.
- **System Pressure:** Ensure your RO system operates within the recommended pressure range for the membrane (Maximum Operating Pressure: 150 psig / 10 bar).
- **Temperature:** The membrane performs best within its specified temperature range (Maximum Operating Temperature: 113°F / 45°C).

4. MAINTENANCE

Proper maintenance ensures the longevity and efficiency of your RO system and membrane.

- **Pre-Filter Replacement:** The lifespan of the RO membrane is significantly affected by the condition of pre-filters (sediment and carbon filters). Replace these filters regularly as recommended by your RO system manufacturer, typically every 6-12 months.
- **Membrane Replacement:** The DOW FilmTec BW60-1812-75 membrane typically lasts 2-5 years, depending on water quality and usage. Replace the membrane when you notice a significant drop in water production, a decrease in water quality (higher TDS readings), or a change in taste/odor.
- **System Sanitization:** Periodically sanitize your entire RO system, especially when replacing filters or the membrane, to prevent bacterial growth. Follow your RO system manufacturer's sanitization instructions.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your RO membrane.

Problem	Possible Cause	Solution
Low water production	<ul style="list-style-type: none">• Clogged pre-filters• Low water pressure• Membrane fouling/aging• Air gap faucet restriction	<ul style="list-style-type: none">• Replace pre-filters• Check household water pressure• Replace RO membrane• Clear any blockages in the faucet
Poor water quality (high TDS)	<ul style="list-style-type: none">• Damaged RO membrane• Improper membrane installation• High chlorine levels in feed water (damages membrane)	<ul style="list-style-type: none">• Replace RO membrane• Re-install membrane correctly• Ensure carbon pre-filter is effective at removing chlorine
Leaks from housing	<ul style="list-style-type: none">• Loose housing cap• Damaged O-rings	<ul style="list-style-type: none">• Tighten housing cap• Inspect and replace O-rings if damaged

6. SPECIFICATIONS

Detailed technical specifications for the DOW FilmTec BW60-1812-75 RO Membrane Element.

Specification	Value
Membrane Type	Polyamide Thin-Film Composite
Capacity	75 Gallons Per Day (GPD) / 12 Liters Per Hour
Stabilized Salt Rejection	99% (Minimum 97%)
Maximum Operating Temperature	113°F (45°C)
Maximum Operating Pressure	150 psig (10 bar)
Maximum Feed Flow Rate	2 GPM (7.6 LPM)
pH Range	2 - 11
Maximum Feed Silt Density Index (SDI)	5
Free Chlorine Tolerance	0.1 ppm
Product Dimensions (D x W x H)	1.7" x 1.7" x 11.75"
Item Weight	0.3 Kilograms (10.5 ounces)
External Testing Certification	ANSI, NSF (Standard 58)
Manufacturer	DOW Filmtec
Model Number	BW60-1812-75
UPC	826311018585

7. IMPORTANT NOTES AND SAFETY

- Always turn off the water supply and relieve pressure before performing any maintenance on your RO system.
- Do not use hot water with the RO membrane, as temperatures exceeding specifications can damage the membrane.
- Ensure proper disposal of old membrane elements according to local environmental guidelines.
- The membrane is shipped dry for extended shelf-life. Follow flushing instructions carefully after installation.

8. SUPPORT

For further assistance, technical support, or warranty inquiries regarding your DOW FilmTec BW60-1812-75 RO membrane element, please contact your product supplier or the manufacturer, Dow Filmtec, directly. Refer to their official website or product packaging for contact information.