



DMDT

Dalahoo Membrane Development Technology





Together, let's shape the
future of water purification.

Mission & Vision

Mission: To provide high-performance and affordable RO membrane solutions.

Vision: To become the leading RO membrane manufacturer in the Middle East.

Values: Quality , Integrity , Safety
Sustainability , Innovation.



Company Overview

- DMDT is a pioneer in Iran's reverse osmosis membrane manufacturing sector.
- Factory located in Eivan Industrial Zone, Ilam Province.
- Focus: Sea Water (SW) and Brackish Water (BW) membranes for industrial and municipal use.



Steel
and
Iron
Industries



Oil
and
Petrochemical
Industries



Power
Plants



Desalination
Plants



Company Profile

DMDT Company, the first manufacturer of Reverse Osmosis membranes in Iran, was established in 2012. In response to increasing water demands caused by population growth, climate change, economic development, water resource contamination, and widespread water scarcity in many regions of Iran, DMDT provides high-performance ultrafiltration, nanofiltration, and reverse osmosis products that help mitigate the water crisis. The state-of-the-art membranes manufactured by DMDT can be utilized across various sectors, including municipal, industrial, power generation, irrigation, and more.

DMDT has developed a range of RO membranes—residential, commercial, and industrial—that are suitable for treating both brackish and seawater. The RO membranes produced by DMDT are in the form of flat-sheet composite membranes, consisting of an active polyamide layer supported by a porous polysulfone substrate, wound around a central collection tube. The production of nanofiltration (NF) and ultrafiltration (UF) membranes is also part of the company's future development plan.

DMDT operates its manufacturing facility in the Eyvan Industrial Area, Ilam Province, Iran, covering 7 hectares, including 4,256 square meters of industrial space. Embracing the concept of fully-automated equipment, high-standard production environments, and rigorous quality control, DMDT has established a fully-automated membrane sheet production line, as well as a fully-automated spiral-winding line utilizing core membrane technologies. The company remains committed to fulfilling its social and environmental responsibilities by maintaining a clean, well-equipped production environment and managing effluent output in full compliance with Iran's environmental regulations.

Manufacturing & Technology

- Fully integrated casting, coating, Rolling, and testing lines.
- Annual production capacity: 150,000 industrial 8-inch membranes.
- Continuous R&D to enhance salt rejection and energy efficiency.
- Advanced quality control including flow rate, salt rejection, and pressure testing.

Factory

- Factory Building Location, Eivan Industrial Zone,
- Ilam Province.



- Site Plan and Building Positioning including Future Development



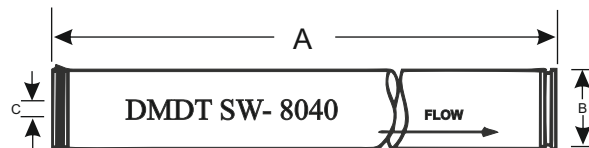
Manufacturing Facility

Advanced Manufacturing Technology
High-Performance RO Membranes





Product Datasheet

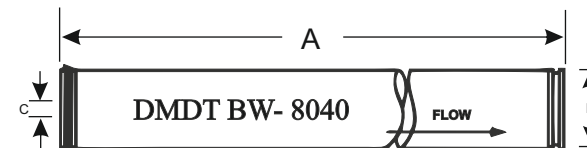


A/mm(inch)	B/mm(inch)	C/mm(inch)
1016(40)	201(7.9)	29(1.125)

Sea Water (SW Series)

Model	Active Membrane Area ft ² (m ²)	Permeate Flow GPD GPD (m ³ /day)	Salt Rejection Rate %	Feed Spacer Thickness mill
SW-8040-400	400 (37.2)	7500 (28.4)	99.7	28
Testing Conditions	Operating Pressure 800 psi (5.52 MPa) Temperature at 25 °C Tested at 32000mg/L NaCl solution PH 8 Recovery Rate at 8%			
Limits	Maximum operating pressure	1200 psi (8.28 MPa)		
	Maximum feedwater flow	75 gpm (17 m ³ /h)		
	Maximum feedwater temperature	45 °C		
	Maximum feedwater flow SDI15	5		
	Allowed pH range for feedwater in operation	2~11		
	Allowed pH range for chemical cleaning	1~13		
	Maximum concentration of free chlorine	<0.1 ppm		
	Maximum pressure drop per element	15 psi (0.1 MPa)		

Size of Membrane Element: 1.0 inch=25.4 mm



A/mm(inch)	B/mm(inch)	C/mm(inch)
1016(40)	201(7.9)	29(1.125)

Brackish Water (BW Series)

Model	Active Membrane Area ft ² (m ²)	Permeate Flow GPD GPD (m ³ /day)	Salt Rejection Rate %	Feed Spacer Thickness mill
BW-8040-LH	400 (37.2)	10500 (39.7)	99.5	28
Testing Conditions	Operating Pressure 225 psi (1.55 MPa) Temperature at 25 °C Tested at 2000 mg/L NaCl solution PH 0.5 Recovery Rate at 15%			
Limits	Maximum operating pressure	600 psi (4.14 MPa)		
	Maximum feedwater flow	75 gpm (17 m ³ /h)		
	Maximum feedwater temperature	45 °C		
	Maximum feedwater flow SDI15	5		
	Allowed pH range for feedwater in operation	2~11		
	Allowed pH range for chemical cleaning	1~13		
	Maximum concentration of free chlorine	<0.1 ppm		
	Maximum pressure drop per element	15 psi (0.1 MPa)		

Size of Membrane Element: 1.0 inch=25.4 mm

Quality Assurance & Certifications



Certified by Acerta Middle East Ltd

- **ISO 9001:2015** – Quality Management
- **ISO 14001:2015** – Environmental Management
- **ISO 45001:2018** – Occupational Health & Safety
- **RoHS Certified** – Restriction of Hazardous substances (2011/65/EU)

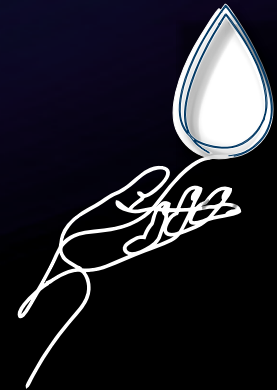
Our commitment to quality, environment, and safety is internationally certified and continuously audited.

Certificate

Operating License for the Annual Production of **150,000** Reverse Osmosis Membrane Filters (**BW-SW**)

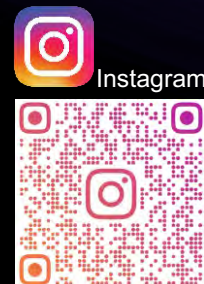
Health, Safety & Environment

- Integrated Occupational Health and Safety system.
- Safe handling of chemicals and waste management.
- Zero-incident culture with continuous training.
- Eco-friendly production minimizing energy and **water** consumption.



Competitive Advantages

- 100% locally manufactured with international standards
- ISO-certified integrated management system
- Short delivery time & technical support
- On-site testing and performance verification
- Competitive pricing for large projects.





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