



NAV BHARAT WATER PVT LTD
Sustainable Solutions

PRODUCT MANUAL

RO MEMBRANE

TW

BW

SW





APPLICATION AREA



Steel, Power, Petrochemical

- Ultra-pure water and reuse
- Boiler recharge water
- Wastewater treatment



Metallurgy, Coal Chemical Industry, Electroplating

- Production of pure water
- Treatment of wastewater



Bio-Pharmaceutical

- Material separation and concentration
- Ultra-pure water production



Environmental Protection, Paper Making, Textile Printing and Dyeing

- Recycling water
- Standard discharge of landfill leachate and waste water:
- Decolorization and COD removal of water waste



Food, Drink, Dairy products

- Production of pure water



Urban Water Supply

- Seawater desalination
- Direct drinking water & drinking water production

Navbharat Water Industrial TW-4040 RO Membrane Series

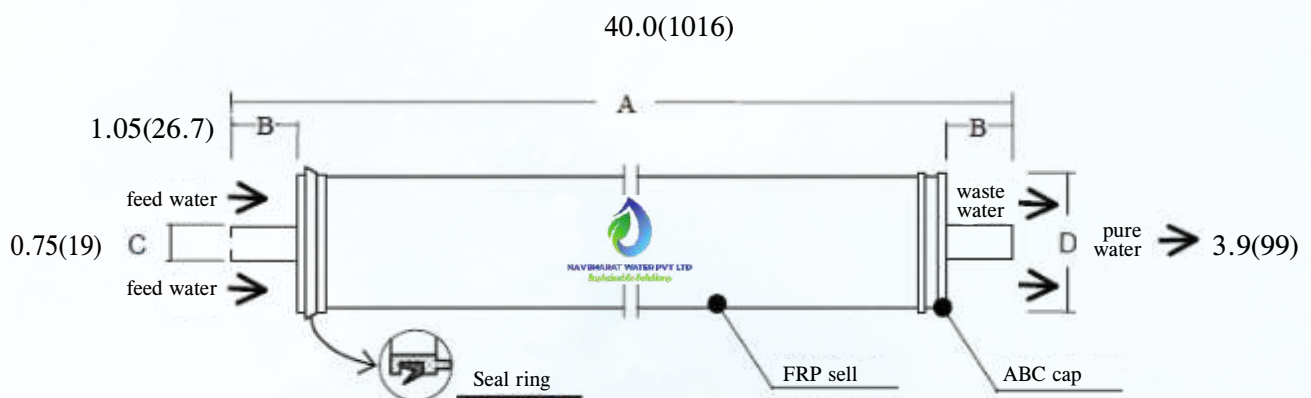


1. Testing Condition and Performance

Model	Sheet area ft ² (m ²)	Pressure psi(MPa)	Flow GPD (m ³ /d)	Salt Rejection (%)
TW-4040-HR	90(8.4)	150(1.03)	2400(9.1)	99.3
TW-4040-HF	90(8.4)	150(1.03)	2700(10.2)	99.0
TW-4040-FR	90(8.4)	150(1.03)	1900(7.2)	99.5

- The flow and rejection are based on following testing condition: 1500ppm softened tap water, temperature 25°C, pH7.5-8, recovery rate 15% and above testing pressure
- One single membrane flow may fluctuate within $\pm 15\%$

2. Membrane Size



Model - TW-4040

Navbharat Water Industrial TW-8040 RO Membrane Series

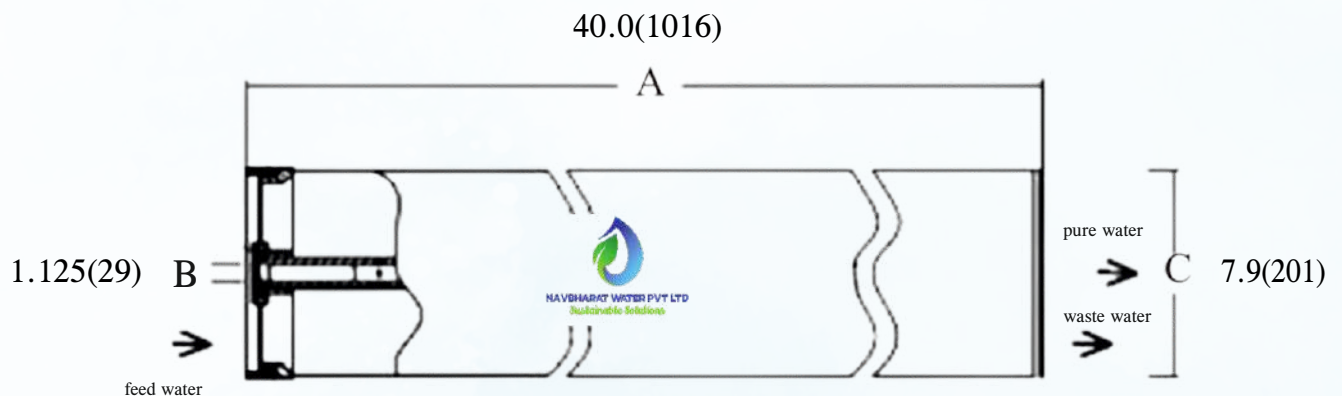


1. Testing Condition and Performance

Model	Sheet area ft ² (m ²)	Pressure psi(MPa)	Flow GPD (m ³ /d)	Salt Rejection (%)
TW-8040-HR	400(37)	1.50(1.03)	10500(39.5)	99.3
TW-8040-HF	400(37)	1.50(1.03)	11000(41.6)	99.0
TW-8040-FR	365(33.9)	1.50(1.03)	10500(39.5)	99.5

- a. The flow and rejection are based on following testing condition: 1500ppm softened tap water, temperature 25°C, pH7.5-8, recovery rate 15% and above testing pressure
- b. One single membrane flow may fluctuate within $\pm 15\%$

2. Membrane Size



Model - TW-8040



3. Operation limits and condition

Operation Limits	Membrane type	Polyamide composite Membrane (TW-4040)	Polyamide composite Membrane (TW-8040)
	Maximum feed water temperature	45° C	45° C
	Maximum operating pressure	600psi (4.14Mpa)	600psi (4.14Mpa)
	Maximum feed water flow	14GPM (3.2m ³ /h)	85GPM (19m ³ /h)
	Minimum concentrated water flow	3GPM (0.7m ³ /h)	12GPM (2.7m ³ /h)
	pH range during operation	3-10	3-10
	pH range during chemical cleaning	2-12	2-12
	Maximum feed water SDI15	5	5
	Maximum influent turbidity /NTU	1	1
	Free chlorine tolerance (mg/L)	0.1	0.1
	Maximum pressure drop of one element	15 (0.1)psi (MPa)	15 (0.1)psi (MPa)



NAVBHARAT WATER PVT LTD
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Phone : +91 22 43531140, +91 22 43531138,
+91 22 43531100

Email : sales@navbharatwater.com

Website : <https://www.navbharatwater.com/>

Mumbai Office : Navbharat Water Pvt. Ltd.
6C2 & 6C2A, Gundecha Onclave, C Wing,
6th Floor, Khairani Road, Sakinaka, Andheri,
East, Mumbai-400072.

Kolkata Office : Navbharat Water Pvt. Ltd.
12A, 15th Floor, Eco Intelligent Park, EM 3,
Sector V, Salt Lake City, Kolkata-700 091

Hyderabad Office : Navbharat Water Pvt. Ltd.
6-3-667/4/401, Sirimalle Towers, near Deccan Hospitals,
Matha Nagar, Somajiguda, Hyderabad-500082.

Delhi Office : Navbharat Water Pvt. Ltd.
X-17, Ground Floor, Okhla Industrial Area Phase - 2,
Delhi-110020.

Bangalore Office : Navbharat Water Pvt. Ltd.
No 35/1, 3rd Floor, Fortune Park, Park St. Shivaji Nagar,
Bangalore-560051.

Chennai Office : Navbharat Water Pvt. Ltd.
No-8, 1st Floor, Sindur Plaza, Montienth Egmore,
Chennai-600008.