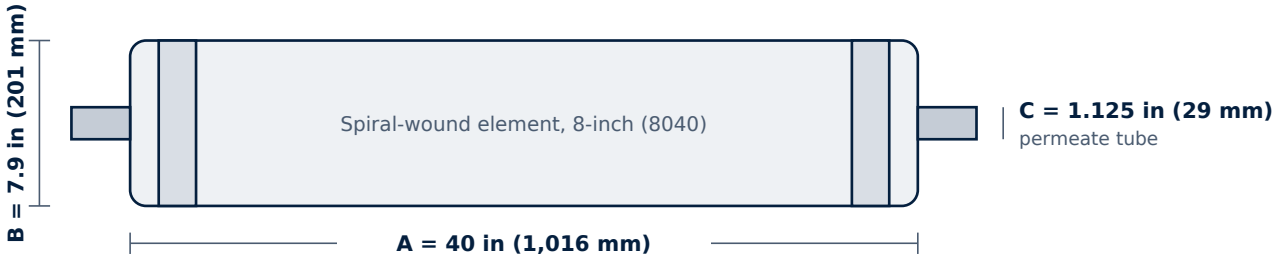
mail@thewaymembranes.com
www.thewaymembranes.com
Chennai, India

Osmoflux BR TW 400

Brackish water RO membrane · Datasheet

Brackish water RO membrane, Osmoflux series. 400 ft² (37 m²) 8-inch (8040) spiral-wound element with a 34 mil feed spacer. High flow and high rejection for brackish well, surface and UF-treated water.



Performance

Permeate flow	11,500 gpd (43.5 m³/d)
Salt rejection	99.8 %
Salt rejection (minimum)	99.6 %
Nominal flux (calculated)	28.8 gpd/ft² (≈ 49 L/m²·h)

Element

Configuration	Spiral wound
Membrane	Polyamide thin-film composite
Active membrane area	400 ft² (37 m²)
Feed spacer	34 mil
Element size	8 in × 40 in (8040)

Operating limits *

Operating pressure, maximum	600 psi (41 bar)
Operating temperature, maximum	45 °C (113 °F)
Free chlorine tolerance	< 0.1 ppm
pH, continuous operation	2 to 11
pH, short-term cleaning	1 to 13
Cleaning temperature, maximum	35 °C (95 °F)
Feed flow, maximum	75 gpm (17 m³/h)
Pressure drop per element, max.	15 psi (1 bar)
Feed water turbidity, maximum	1 NTU
Feed water SDI, maximum	5

* General-use limits. Values may be more conservative for a specific project to give the best performance and the longest membrane life.

Test conditions (initial performance)
2,000 ppm NaCl with 5 ppm boron · 225 psi (1.55 MPa) operating pressure · 25 °C · pH 8 · 15 % recovery

Fits the same pressure vessels as

DuPont FilmTec	BW30-400, BW30-400/34i
Hydranautics	CPA3-LD
Toray	TM720D-400, TM720-400
Veolia	AG8040F-400

Brand and model names belong to their owners and are used only to identify the elements an Osmoflux element can replace. Check operating conditions against this datasheet before replacing elements.

Operating guidelines

- Avoid abrupt changes in pressure or cross-flow during start-up, shutdown and cleaning.
- Raise feed pressure gradually over 30 to 60 seconds, and reach the set cross-flow velocity over 15 to 20 seconds.
- Discard the permeate made in the first hour of operation. Avoid static back-pressure on the permeate side at all times.
- Complete pretreatment, element loading, instrument calibration and system checks before start-up.
- Clean at pH 2 to 12 at up to 35 °C; clean at pH 1 or pH 13 only at 25 °C or below.

General notes

- Permeate flow of an individual element may vary by ±15 %.
- Each element is supplied with brine seal, interconnector and O-rings, in a sealed polyethylene bag with less than 1 % sodium metabisulfite solution, packed in a cardboard box.
- Keep elements wet at all times after first wetting. During long shutdowns, keep them in preservative solution to prevent biological growth.
- Theway RO three-year prorated limited warranty. Operation outside the stated limits voids the warranty; the user is responsible for the effects of incompatible chemicals and lubricants.

Theway Membranes believes the information here to be accurate and offers it in good faith. Conditions of use are outside our control. Use of this product alone does not guarantee removal of cysts and pathogens; that depends on the complete system design, operation and maintenance.

Theway Membranes · 29 Yadaval Street, SIDCO Industrial Estate, Ambattur, Chennai 600 098, India
mail@thewaymembranes.com · www.thewaymembranes.com
Designs are the property of Theway Membranes. Specifications may change without notice. Images are for representation only. Issued November 2026.

mail@thewaymembranes.com
www.thewaymembranes.com
Chennai, India

Important information

Osmoflux BR TW 400 RO element datasheet. Read with every page of this document.

DOCUMENT	VERSION	RELEASED	PAGES	ISSUED BY
TWM-DS-OSMOFLUX-BR-TW400	**1.1**	**November 2026**	**2**	**Theway Membranes**

Legal notice

Guidance only. Values are typical and indicative, given in good faith under the stated reference conditions. They are not guaranteed values and not a warranty of performance; actual performance depends on feed water, pretreatment, design, operation and maintenance.

Binding terms. The only binding specification is Theway's written quotation and order acknowledgement. Supply is under Theway's Terms of Sale, which set out the warranty and limit Theway's liability. Except as stated there, Theway gives no warranty, express or implied, including merchantability or fitness for a particular purpose.

No liability for reliance. To the fullest extent permitted by law, Theway accepts no liability for any loss, damage, injury or cost arising from use of or reliance on this document, or from misuse, incorrect installation, modification or use outside the stated limits, and no liability for indirect, incidental, special or consequential loss.

Your responsibility. The user must confirm that the product is suitable and safe for the intended use, including chemical compatibility, potable-water or food-contact requirements and local regulations, and must have it installed and operated by competent persons.

Replacement products and trade marks. Where this document names another maker's product, the Theway product is built to fit and operate in its place by its published dimensions, connections and ratings. It is not made, approved or endorsed by that maker, and Theway is not connected with it. Fitting it may affect a warranty or service agreement with the original supplier; check before replacing. Brand and model names belong to their owners and are used only for identification.

Changes and versions. Theway may change designs and specifications without notice. This version supersedes all earlier versions; ask for the current version before ordering.

Ownership. © 2026 Theway Membranes. All rights reserved. This document, its drawings and images are Theway's property and are for illustration; supplied products may differ in finish and labelling. They may not be copied, altered, published or passed to third parties without Theway's written permission, except to evaluate Theway products.

Law. Governing law and jurisdiction are as stated in the Terms of Sale. Full terms: www.thewaymembranes.com/post/terms-of-sale and www.thewaymembranes.com/post/product-and-datasheet-disclaimer.

Questions about this document: mail@thewaymembranes.com · +91 44 48502060 · +91 73974 98660. Always ask for the current version before ordering or designing.

Theway Membranes · 29 Yadaval Street, SIDCO Industrial Estate, Ambattur, Chennai 600 098, India
mail@thewaymembranes.com · www.thewaymembranes.com
Designs are the property of Theway Membranes. Specifications may change without notice. Images are for representation only. Issued November 2026.