

# Data Sheet



**Brackish Water  
Reverse Osmosis (RO) Membranes  
LG CW 4040 SF**

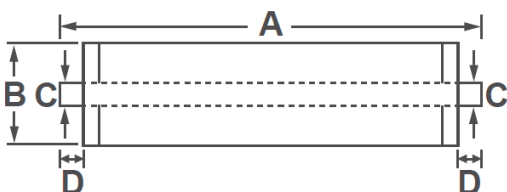
## Overview

LG CW 4040 SF RO membranes qualify for car wash industry and other various commercial applications. LG CW 4040 SF RO membranes, incorporated with innovative Thin Film Nanocomposite (TFN) technology, offer high productivity at ultra-low feed pressure and good salt rejection. The membranes are available in industry standard 4"x40" configuration and can easily fit into existing or new industry RO systems.

## Product Specifications

| Active Membrane Area, ft <sup>2</sup> (m <sup>2</sup> ) | Permeate Flow Rate, GPD (m <sup>3</sup> /d) | Stabilized Salt Rejection, % | Minimum Salt Rejection, % | Feed Spacer, mil |
|---------------------------------------------------------|---------------------------------------------|------------------------------|---------------------------|------------------|
| 85 (7.9)                                                | 2,900 (11.0)                                | 99.0                         | 98.0                      | 28               |

Test Conditions : 500 ppm NaCl at 25°C (77°F), 100 psi (6.9 bar), pH 7, Recovery 15%.  
Permeate flows for individual elements will vary with no less than 85% of the specified datasheet flow.



| A, mm (in.) | B, mm (in.) | C, mm (in.) | D, mm (in.) | Weight kg (lbs.) |
|-------------|-------------|-------------|-------------|------------------|
| 1,016 (40)  | 100 (3.9)   | 19 (0.75)   | 29 (1.1)    | 4.0 (8.8)        |

All dimensional information is indicative and for reference purpose only. Please contact LG Chem for detailed technical specification.

## Operating Specifications

|                                                 |                                |
|-------------------------------------------------|--------------------------------|
| <b>Max. Applied pressure</b>                    | 600 psi (41 bar)               |
| <b>Max. Chlorine concentration</b>              | < 0.1 ppm                      |
| <b>Max. Operating temperature</b>               | 45°C (113°F)                   |
| <b>pH Range, Continuous (Cleaning)</b>          | 2-11 (2-12)                    |
| <b>Max. Feedwater turbidity</b>                 | 1.0 NTU                        |
| <b>Max. Feedwater SDI (15 mins)</b>             | 5.0                            |
| <b>Max. Feed flow</b>                           | 16 gpm (3.6 m <sup>3</sup> /h) |
| <b>Max. Pressure drop (ΔP) for each element</b> | 15 psi (1.0 bar)               |

The Membrane Elements performance is expressly conditioned on Buyer's storing, installing, operating, and maintaining Product in accordance with industry-accepted good practices and Seller's written instructions provided in the Seller's Technical Manual, which consists of LG Chem, Ltd [Technical Service Bulletins \("TSB"\)](#) and [Technical Applications Bulletins \("TAB"\)](#) and may be viewed and downloaded at [www.lgwatersolutions.com](http://www.lgwatersolutions.com).

The information and data contained herein are deemed to be accurate and reliable and are offered in good faith, but without guarantee of performance. LG Chem assumes no liability for results obtained or damages incurred through the application of the information contained herein. Customer is responsible for determining whether the products and information presented herein are appropriate for the customer's use and for ensuring that customer's workplace and disposal practices are in compliance with applicable laws and other governmental enactments. Specifications subject to change without notice. NanoH<sub>2</sub>O is the Trademark of The LG Water Solutions or an affiliated company of LG Chem. All rights reserved. © LG Chem, Ltd.