**iLEC™ Technology**

**Leak-Tight Performance**

**Boost Performance of RO Systems**

*iLEC™*, an innovative element coupling technology from Dow Water Solutions, enables sustained higher quality permeate throughout the life of the element by reducing seal leakage.

*iLEC* technology achieves a leak-tight connection between elements and reduces the number of sealing surfaces to a single, axially compressed o-ring. *iLEC* technology is a definitive breakthrough improvement over the traditional sliding couplers.

With proven results in successful operating plants worldwide, *iLEC* technology is available on high performance FILMTEC™ elements.

**Reasons to Select *iLEC™* Technology**

- Improved permeate quality
- Lower pressure drop
- Highly reliable o-ring seal
- Leak-tight performance
- Full performance with or without lubricants
- Compatibility with existing connection methods and vessel designs
- Minimizes installation time with leak-tight connect at start-up
- Reduced energy-consuming flow resistance, lower operating expense
- Elimination of permeate interconnectors
- Fewer parts to wear out or that require maintenance

**Features of *iLEC™* Technology**

- Mechanically robust connections
- Ability to handle repeated installation cycles
- Easy installation with a clockwise twist
- Immediate connection feedback during installation
- Minimizes rolled o-rings, wear and abrasion

For more information, visit www.dowwatersolutions.com/ilec or your local Dow Water Solutions representative or OEM.

**Features of Construction and Reliability**

Construction and reliability features included in each FILMTEC™ element:

- Durable FT30 membrane
- pH 1-13 cleaning range
- Automated construction
- Guaranteed active area

Look for FILMTEC™ Elements with *iLEC™* Technology in the product table, which lists some of the extra features such as:

- 34 mil feed spacer for improving element clearability
- Fouling Resistant (FR) membrane
- Semi Conductor Grade for ultra-pure water applications
- Low Energy (LE) membrane

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FILMTEC™ Elements Available with iLEC™ Technology

<table>
<thead>
<tr>
<th>Performance Attributes</th>
<th>Construction Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feed Pressure (psi)</td>
<td>Flow Rate (gpd)</td>
</tr>
<tr>
<td>BW30-440i</td>
<td>225</td>
</tr>
<tr>
<td>BW30-400/34i</td>
<td>225</td>
</tr>
<tr>
<td>BW30-400/34FR</td>
<td>225</td>
</tr>
<tr>
<td>LE-440i</td>
<td>150</td>
</tr>
<tr>
<td>SG30LE-440i</td>
<td>107</td>
</tr>
<tr>
<td>SG30-400/34i</td>
<td>225</td>
</tr>
<tr>
<td>SW30XHR-400i</td>
<td>800</td>
</tr>
<tr>
<td>SW30HR370/34i</td>
<td>800</td>
</tr>
<tr>
<td>SW30HRLE-400i</td>
<td>800</td>
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<td>SW30XLE-400i</td>
<td>800</td>
</tr>
<tr>
<td>SW30ULE-400i</td>
<td>800</td>
</tr>
</tbody>
</table>

¹Tentative specification based on in-house testing and first 1,000 elements – decision on high/low number to be made after field demonstration.

BW30 – Test conditions: 2,000 ppm NaCl, 225 psi (15.5 bar), 77°F (25°C), pH 8 and 15% recovery.
LE – Test conditions: 2,000 ppm NaCl, 150 psi (10.3 bar), 77°F (25°C), pH 8 and 15% recovery.
SG – Test conditions: 2,000 ppm NaCl, 150 psi (10.3 bar) for SG30 LE-440i and 225 psi (15.5 bar) for SG30-400/34i, 77°F (25°C), pH 8 and 15% recovery.
SW – Test conditions: 32,000 ppm NaCl, 800 psi (5.5 M Pa), 77°F (25°C), pH 8 and 8% recovery.

For More Information
For more information about iLEC™, call Dow Water Solutions:
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