

SPECIFICATIONS

General Features

| | |
|---------------------------------------|-----------------------------|
| Permeate Flow Rate GPD (L/Day) | 150 GPD (568L/day) |
| NaCl Rejection % | 98% (Minimum 95%) |
| Membrane Type | Thin-Film Composite |
| Membrane Material | Polyamide (PA) |
| Element Configuration | Spiral-Wound, Tape Wrapping |

The stated product performance is based on data taken after 30 minutes of operation at the following test Conditions: 200 mg/L NaCl solution at 60 psig (0.41 MPa) applied pressure; 15% recovery; 77°F (25°C); pH 6.5–7.0; Permeate flow rate for each element may vary +20 / -20%; Minimum salt rejection is 95.0%; All elements are vacuum leak tested using the CSM integrity test; Elements can be supplied as dry or wet-type. Wet-tested elements are soaked in a preservative solution (1.0% food grade SBS) and vacuum sealed in a poly bag. All elements are individually boxed.

Dimensions

| Model Name | A | B | C | D | E |
|------------|----------------------|----------------------|------------------------|----------------------|----------------------|
| RE2012-150 | 0.67 inch (17 mm) | 0.47 inch (12 mm) | 11.73 inch (298 mm) | 0.91 inch (23 mm) | 1.89 inch (48 mm) |



APPLICATION DATA

Operating Limits

| | |
|------------------------------------|---------------------------------|
| Max. Operating Pressure | 150 psi (1.03 MPa) |
| Max. Feed Flow Rate | 2 gpm (0.45 m ³ /hr) |
| Max. Operating Temperature | 113°F (45°C) |
| Operating pH Range | 2.0 – 11.0 |
| Max. Turbidity | 1.0 NTU |
| Max. SDI (15 min) | 3.0 |
| Max. Chlorine Concentration | < 0.1 mg/L |

GENERAL HANDLING PROCEDURES

- Elements contained in the boxes must be kept dry at room temperature (7–32°C; 40–95°F) and should not be stored in direct sunlight.
- For WET-TYPE, the preservative solution (1% sodium metabisulfite solution) is added to prohibit the growth of micro-organisms.
- Permeate from the first hour of operation should be discarded.
- Stabilized salt rejection is generally achieved within 1~48 hours of continuous use.
- Keep elements moist at all times after initial wetting.
- Avoid excessive pressure and flow spikes.
- Only use chemicals compatible with the membrane elements and components. Use of such chemicals may void the element limited warranty.
- Permeate pressure must always be equal or less than the feed/concentrate pressure. Damage caused by permeate back pressure voids the element limited warranty.
- To ensure compliance with NSF/ANSI 58 standards, it is advised to rinse systems containing these elements for 24 hours prior to their initial use.



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Product Specification Sheet / Model RE2012-150

SPECIFICATIONS

General Features

| | |
|---------------------------------------|-----------------------------|
| Permeate Flow Rate GPD (L/Day) | 400 GPD (1514L/day) |
| NaCl Rejection % | 96% (Minimum 93%) |
| Membrane Type | Thin-Film Composite |
| Membrane Material | Polyamide (PA) |
| Element Configuration | Spiral-Wound, Tape Wrapping |

The stated product performance is based on data taken after 30 minutes of operation at the following test Conditions: 200 mg/L NaCl solution at 80 psig (0.55 MPa) applied pressure; 30% recovery; 77°F (25°C); pH 6.5–7.0; Permeate flow rate for each element may vary +20 / -20%; Minimum salt rejection is 93.0%; All elements are vacuum leak tested using the CSM integrity test; Elements can be supplied as dry or wet-type. Wet-tested elements are soaked in a preservative solution (1.0% food grade SBS) and vacuum sealed in a poly bag. All elements are individually boxed.

Dimensions

| Model Name | A | B | C | D | E |
|------------|----------------------|----------------------|------------------------|---------------------|----------------------|
| RE2012-400 | 0.67 inch (17 mm) | 0.47 inch (12 mm) | 11.73 inch (298 mm) | 0.91 inch (23mm) | 1.89 inch (48 mm) |



APPLICATION DATA

Operating Limits

| | |
|------------------------------------|---------------------------------|
| Max. Operating Pressure | 150 psi (1.03 MPa) |
| Max. Feed Flow Rate | 2 gpm (0.45 m ³ /hr) |
| Max. Operating Temperature | 113°F (45°C) |
| Operating pH Range | 2.0 – 11.0 |
| Max. Turbidity | 1.0 NTU |
| Max. SDI (15 min) | 3.0 |
| Max. Chlorine Concentration | < 0.1 mg/L |

GENERAL HANDLING PROCEDURES

- Elements contained in the boxes must be kept dry at room temperature (7–32°C; 40–95°F) and should not be stored in direct sunlight.
- For WET-TYPE, the preservative solution (1% sodium metabisulfite solution) is added to prohibit the growth of micro-organisms.
- Permeate from the first hour of operation should be discarded.
- Stabilized salt rejection is generally achieved within 1~48 hours of continuous use.
- Keep elements moist at all times after initial wetting.
- Avoid excessive pressure and flow spikes.
- Only use chemicals compatible with the membrane elements and components. Use of such chemicals may void the element limited warranty.
- Permeate pressure must always be equal or less than the feed/concentrate pressure. Damage caused by permeate back pressure voids the element limited warranty.
- To ensure compliance with NSF/ANSI 58 standards, it is advised to rinse systems containing these elements for 24 hours prior to their initial use.



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Product Specification Sheet / Model RE2012-400

SPECIFICATIONS

General Features

| | |
|---------------------------------------|-----------------------------|
| Permeate Flow Rate GPD (L/Day) | 50 GPD (189L/day) |
| NaCl Rejection % | 93% (Minimum 90%) |
| Membrane Type | Thin-Film Composite |
| Membrane Material | Polyamide (PA) |
| Element Configuration | Spiral-Wound, Tape Wrapping |

The stated product performance is based on data taken after 30 minutes of operation at the following test Conditions: 100 mg/L NaCl solution at 20 psig (0.14 MPa) applied pressure; 15% recovery; 77°F (25°C); pH 6.5–7.0; Permeate flow rate for each element may vary +20 / -20%; Minimum salt rejection is 90.0%; All elements are vacuum leak tested using the CSM integrity test; Elements can be supplied as dry or wet-type. Wet-tested elements are soaked in a preservative solution (1.0% food grade SBS) and vacuum sealed in a poly bag. All elements are individually boxed.

Dimensions

| Model Name | A | B | C | D | E |
|------------|----------------------|----------------------|------------------------|---------------------|----------------------|
| RE2012-LP | 0.67 inch (17 mm) | 0.47 inch (12 mm) | 11.73 inch (298 mm) | 0.91 inch (23mm) | 1.89 inch (48 mm) |



APPLICATION DATA

Operating Limits

| | |
|------------------------------------|---------------------------------|
| Max. Operating Pressure | 150 psi (1.03 MPa) |
| Max. Feed Flow Rate | 2 gpm (0.45 m ³ /hr) |
| Max. Operating Temperature | 113°F (45°C) |
| Operating pH Range | 2.0 – 11.0 |
| Max. Turbidity | 1.0 NTU |
| Max. SDI (15 min) | 3.0 |
| Max. Chlorine Concentration | < 0.1 mg/L |

GENERAL HANDLING PROCEDURES

- Elements contained in the boxes must be kept dry at room temperature (7–32°C; 40–95°F) and should not be stored in direct sunlight.
- For WET-TYPE, the preservative solution (1% sodium metabisulfite solution) is added to prohibit the growth of micro-organisms.
- Permeate from the first hour of operation should be discarded.
- Stabilized salt rejection is generally achieved within 1~48 hours of continuous use.
- Keep elements moist at all times after initial wetting.
- Avoid excessive pressure and flow spikes.
- Only use chemicals compatible with the membrane elements and components. Use of such chemicals may void the element limited warranty.
- Permeate pressure must always be equal or less than the feed/concentrate pressure. Damage caused by permeate back pressure voids the element limited warranty.
- To ensure compliance with NSF/ANSI 58 standards, it is advised to rinse systems containing these elements for 24 hours prior to their initial use.



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Product Specification Sheet / Model RE2012-LP

SPECIFICATIONS

General Features

| | |
|---------------------------------------|-----------------------------|
| Permeate Flow Rate GPD (L/Day) | 60 GPD (227L/day) |
| NaCl Rejection % | 93% (Minimum 90%) |
| Membrane Type | Thin-Film Composite |
| Membrane Material | Polyamide (PA) |
| Element Configuration | Spiral-Wound, Tape Wrapping |

The stated product performance is based on data taken after 30 minutes of operation at the following test Conditions: 100 mg/L NaCl solution at 20 psig (0.14 MPa) applied pressure; 15% recovery; 77°F (25°C); pH 6.5–7.0; Permeate flow rate for each element may vary +20 / -20%; Minimum salt rejection is 90.0%; All elements are vacuum leak tested using the CSM integrity test; Elements can be supplied as dry or wet-type. Wet-tested elements are soaked in a preservative solution (1.0% food grade SBS) and vacuum sealed in a poly bag. All elements are individually boxed.

Dimensions

| Model Name | A | B | C | D | E |
|------------|----------------------|----------------------|------------------------|---------------------|----------------------|
| RE2012-LPF | 0.67 inch (17 mm) | 0.47 inch (12 mm) | 11.73 inch (298 mm) | 0.91 inch (23mm) | 1.89 inch (48 mm) |



APPLICATION DATA

Operating Limits

| | |
|------------------------------------|---------------------------------|
| Max. Operating Pressure | 150 psi (1.03 MPa) |
| Max. Feed Flow Rate | 2 gpm (0.45 m ³ /hr) |
| Max. Operating Temperature | 113°F (45°C) |
| Operating pH Range | 2.0 – 11.0 |
| Max. Turbidity | 1.0 NTU |
| Max. SDI (15 min) | 3.0 |
| Max. Chlorine Concentration | < 0.1 mg/L |

GENERAL HANDLING PROCEDURES

- Elements contained in the boxes must be kept dry at room temperature (7–32°C; 40–95°F) and should not be stored in direct sunlight.
- For WET-TYPE, the preservative solution (1% sodium metabisulfite solution) is added to prohibit the growth of micro-organisms.
- Permeate from the first hour of operation should be discarded.
- Stabilized salt rejection is generally achieved within 1~48 hours of continuous use.
- Keep elements moist at all times after initial wetting.
- Avoid excessive pressure and flow spikes.
- Only use chemicals compatible with the membrane elements and components. Use of such chemicals may void the element limited warranty.
- Permeate pressure must always be equal or less than the feed/concentrate pressure. Damage caused by permeate back pressure voids the element limited warranty.
- To ensure compliance with NSF/ANSI 58 standards, it is advised to rinse systems containing these elements for 24 hours prior to their initial use.



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Product Specification Sheet / Model RE2012-LPF

SPECIFICATIONS

General Features

| | |
|---------------------------------------|-----------------------------|
| Permeate Flow Rate GPD (L/Day) | 350 GPD (1,325L/day) |
| NaCl Rejection % | 97% (Minimum 95%) |
| Membrane Type | Thin-Film Composite |
| Membrane Material | Polyamide (PA) |
| Element Configuration | Spiral-Wound, Tape Wrapping |

The stated product performance is based on data taken after 30 minutes of operation at the following test Conditions: 200 mg/L NaCl solution at 60 psig (0.41 MPa) applied pressure; 15% recovery; 77°F (25°C); pH 6.5–7.0; Permeate flow rate for each element may vary +25 / -15%; Minimum salt rejection is 95.0%; All elements are vacuum leak tested using the CSM integrity test; Elements can be supplied as dry or wet-type. Wet-tested elements are soaked in a preservative solution (1.0% food grade SBS) and vacuum sealed in a poly bag. All elements are individually boxed.

Dimensions

| Model Name | A | B | C | D | E |
|------------|----------------------|----------------------|------------------------|----------------------|------------------------|
| RE2812-300 | 0.67 inch (17 mm) | 0.87 inch (22 mm) | 11.73 inch (298 mm) | 0.87 inch (22 mm) | 2.93 inch (74.5 mm) |



APPLICATION DATA

Operating Limits

| | |
|------------------------------------|---------------------------------|
| Max. Operating Pressure | 150 psi (1.03 MPa) |
| Max. Feed Flow Rate | 2 gpm (0.45 m ³ /hr) |
| Max. Operating Temperature | 113°F (45°C) |
| Operating pH Range | 2.0 – 11.0 |
| Max. Turbidity | 1.0 NTU |
| Max. SDI (15 min) | 3.0 |
| Max. Chlorine Concentration | < 0.1 mg/L |

GENERAL HANDLING PROCEDURES

- Elements contained in the boxes must be kept dry at room temperature (7–32°C; 40–95°F) and should not be stored in direct sunlight.
- For WET-TYPE, the preservative solution (1% sodium metabisulfite solution) is added to prohibit the growth of micro-organisms.
- Permeate from the first hour of operation should be discarded.
- Stabilized salt rejection is generally achieved within 1~48 hours of continuous use.
- Keep elements moist at all times after initial wetting.
- Avoid excessive pressure and flow spikes.
- Only use chemicals compatible with the membrane elements and components. Use of such chemicals may void the element limited warranty.
- Permeate pressure must always be equal or less than the feed/concentrate pressure. Damage caused by permeate back pressure voids the element limited warranty.
- To ensure compliance with NSF/ANSI 58 standards, it is advised to rinse systems containing these elements for 24 hours prior to their initial use.



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Product Specification Sheet / Model RE2812-300

SPECIFICATIONS

General Features

| | |
|---------------------------------------|-----------------------------|
| Permeate Flow Rate GPD (L/Day) | 450 GPD (1,703L/day) |
| NaCl Rejection % | 96% (Minimum 94%) |
| Membrane Type | Thin-Film Composite |
| Membrane Material | Polyamide (PA) |
| Element Configuration | Spiral-Wound, Tape Wrapping |

The stated product performance is based on data taken after 30 minutes of operation at the following test Conditions: 200 mg/L NaCl solution at 60 psig (0.41 MPa) applied pressure; 15% recovery; 77°F (25°C); pH 6.5–7.0; Permeate flow rate for each element may vary +20 / -20%; Minimum salt rejection is 94.0%; All elements are vacuum leak tested using the CSM integrity test; Elements can be supplied as dry or wet-type. Wet-tested elements are soaked in a preservative solution (1.0% food grade SBS) and vacuum sealed in a poly bag. All elements are individually boxed.

Dimensions

| Model Name | A | B | C | D | E |
|------------|----------------------|----------------------|------------------------|---------------------|------------------------|
| RE2812-450 | 0.67 inch (17 mm) | 0.87 inch (22 mm) | 11.73 inch (298 mm) | 0.87 inch (22mm) | 2.93 inch (74.5 mm) |



APPLICATION DATA

Operating Limits

| | |
|------------------------------------|---------------------------------|
| Max. Operating Pressure | 150 psi (1.03 MPa) |
| Max. Feed Flow Rate | 2 gpm (0.45 m ³ /hr) |
| Max. Operating Temperature | 113°F (45°C) |
| Operating pH Range | 2.0 – 11.0 |
| Max. Turbidity | 1.0 NTU |
| Max. SDI (15 min) | 3.0 |
| Max. Chlorine Concentration | < 0.1 mg/L |

GENERAL HANDLING PROCEDURES

- Elements contained in the boxes must be kept dry at room temperature (7–32°C; 40–95°F) and should not be stored in direct sunlight.
- For WET-TYPE, the preservative solution (1% sodium metabisulfite solution) is added to prohibit the growth of micro-organisms.
- Permeate from the first hour of operation should be discarded.
- Stabilized salt rejection is generally achieved within 1~48 hours of continuous use.
- Keep elements moist at all times after initial wetting.
- Avoid excessive pressure and flow spikes.
- Only use chemicals compatible with the membrane elements and components. Use of such chemicals may void the element limited warranty.
- Permeate pressure must always be equal or less than the feed/concentrate pressure. Damage caused by permeate back pressure voids the element limited warranty.
- To ensure compliance with NSF/ANSI 58 standards, it is advised to rinse systems containing these elements for 24 hours prior to their initial use.

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Product Specification Sheet / Model RE2812-450

RE2812-CE

Innovative chlorine resistant RO element for residential use

CSM[®]

SPECIFICATIONS

General Features

| | |
|---------------------------------------|-----------------------------|
| Permeate Flow Rate GPD (L/Day) | 220 GPD (833L/day) |
| NaCl Rejection % | 97% (Minimum 90%) |
| Membrane Type | Thin-Film Composite |
| Membrane Material | Polyamide (PA) |
| Element Configuration | Spiral-Wound, Tape Wrapping |

The stated product performance is based on data taken after 30 minutes of operation at the following test Conditions: 200 mg/L NaCl solution at 60 psig (0.41 MPa) applied pressure; 15% recovery; 77°F (25°C); pH 6.5–7.0; Permeate flow rate for each element may vary +20 / -20%; Minimum salt rejection is 90.0%; All elements are vacuum leak tested using the CSM integrity test; Elements can be supplied as dry or wet-type. Wet-tested elements are soaked in a preservative solution (1.0% food grade SBS) and vacuum sealed in a poly bag. All elements are individually boxed.

Dimensions

| Model Name | A | B | C | D | E |
|------------|----------------------|----------------------|------------------------|----------------------|------------------------|
| RE2812-CE | 0.67 inch (17 mm) | 0.87 inch (22 mm) | 11.73 inch (298 mm) | 0.87 inch (22 mm) | 2.93 inch (74.5 mm) |



APPLICATION DATA

Operating Limits

| | |
|------------------------------------|---------------------------------|
| Max. Operating Pressure | 150 psi (1.03 MPa) |
| Max. Feed Flow Rate | 2 gpm (0.45 m ³ /hr) |
| Max. Operating Temperature | 113°F (45°C) |
| Operating pH Range | 2.0 – 11.0 |
| Max. Turbidity | 1.0 NTU |
| Max. SDI (15 min) | 3.0 |
| Max. Chlorine Concentration | < 0.1 mg/L |

GENERAL HANDLING PROCEDURES

- Elements contained in the boxes must be kept dry at room temperature (7–32°C; 40–95°F) and should not be stored in direct sunlight.
- For WET-TYPE, the preservative solution (1% sodium metabisulfite solution) is added to prohibit the growth of micro-organisms.
- Permeate from the first hour of operation should be discarded.
- Stabilized salt rejection is generally achieved within 1~48 hours of continuous use.
- Keep elements moist at all times after initial wetting.
- Avoid excessive pressure and flow spikes.
- Only use chemicals compatible with the membrane elements and components. Use of such chemicals may void the element limited warranty.
- Permeate pressure must always be equal or less than the feed/concentrate pressure. Damage caused by permeate back pressure voids the element limited warranty.
- To ensure compliance with NSF/ANSI 58 standards, it is advised to rinse systems containing these elements for 24 hours prior to their initial use.

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Product Specification Sheet / Model RE2812-CE

V.3.0 (24)

SPECIFICATIONS

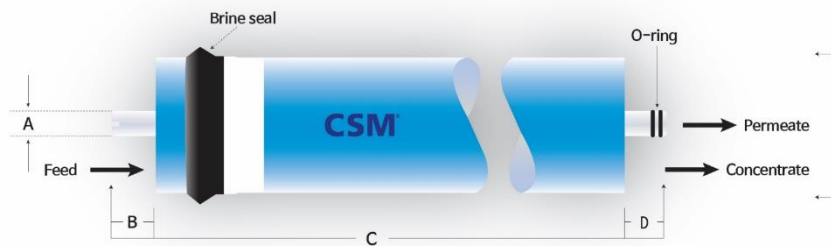
General Features

| | |
|---------------------------------------|-----------------------------|
| Permeate Flow Rate GPD (L/Day) | 500 GPD (1,893L/day) |
| NaCl Rejection % | 97% (Minimum 95%) |
| Membrane Type | Thin-Film Composite |
| Membrane Material | Polyamide (PA) |
| Element Configuration | Spiral-Wound, Tape Wrapping |

The stated product performance is based on data taken after 30 minutes of operation at the following test Conditions: 200 mg/L NaCl solution at 80 psig (0.55 MPa) applied pressure; 40% recovery; 77°F (25°C); pH 6.5–7.0; Permeate flow rate for each element may vary +25 / -15%; Minimum salt rejection is 95.0%; All elements are vacuum leak tested using the CSM integrity test; Elements can be supplied as dry or wet-type. Wet-tested elements are soaked in a preservative solution (1.0% food grade SBS) and vacuum sealed in a poly bag. All elements are individually boxed.

Dimensions

| Model Name | A | B | C | D | E |
|------------|----------------------|----------------------|------------------------|----------------------|----------------------|
| RE3012-500 | 0.67 inch (17 mm) | 0.39 inch (10 mm) | 11.73 inch (298 mm) | 0.79 inch (20 mm) | 2.95 inch (75 mm) |



APPLICATION DATA

Operating Limits

| | |
|------------------------------------|---------------------------------|
| Max. Operating Pressure | 150 psi (1.03 MPa) |
| Max. Feed Flow Rate | 2 gpm (0.45 m ³ /hr) |
| Max. Operating Temperature | 113°F (45°C) |
| Operating pH Range | 2.0 – 11.0 |
| Max. Turbidity | 1.0 NTU |
| Max. SDI (15 min) | 3.0 |
| Max. Chlorine Concentration | < 0.1 mg/L |

GENERAL HANDLING PROCEDURES

- Elements contained in the boxes must be kept dry at room temperature (7–32°C; 40–95°F) and should not be stored in direct sunlight.
- For WET-TYPE, the preservative solution (1% sodium metabisulfite solution) is added to prohibit the growth of micro-organisms.
- Permeate from the first hour of operation should be discarded.
- Stabilized salt rejection is generally achieved within 1~48 hours of continuous use.
- Keep elements moist at all times after initial wetting.
- Avoid excessive pressure and flow spikes.
- Only use chemicals compatible with the membrane elements and components. Use of such chemicals may void the element limited warranty.
- Permeate pressure must always be equal or less than the feed/concentrate pressure. Damage caused by permeate back pressure voids the element limited warranty.
- To ensure compliance with NSF/ANSI 58 standards, it is advised to rinse systems containing these elements for 24 hours prior to their initial use.

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Product Specification Sheet / Model RE3012-500

SPECIFICATIONS

General Features

| | |
|---------------------------------------|-----------------------------|
| Permeate Flow Rate GPD (L/Day) | 800 GPD (3,028/day) |
| NaCl Rejection % | 96% (Minimum 94%) |
| Membrane Type | Thin-Film Composite |
| Membrane Material | Polyamide (PA) |
| Element Configuration | Spiral-Wound, Tape Wrapping |

The stated product performance is based on data taken after 30 minutes of operation at the following test Conditions: 200 mg/L NaCl solution at 80 psig (0.55 MPa) applied pressure; 40% recovery; 77°F (25°C); pH 6.5–7.0; Permeate flow rate for each element may vary +20 / -20%; Minimum salt rejection is 94.0%; All elements are vacuum leak tested using the CSM integrity test; Elements can be supplied as dry or wet-type. Wet-tested elements are soaked in a preservative solution (1.0% food grade SBS) and vacuum sealed in a poly bag. All elements are individually boxed.

Dimensions

| Model Name | A | B | C | D | E |
|------------|----------------------|----------------------|------------------------|----------------------|----------------------|
| RE3012-800 | 0.67 inch (17 mm) | 0.39 inch (10 mm) | 11.73 inch (298 mm) | 0.79 inch (20 mm) | 2.95 inch (75 mm) |



APPLICATION DATA

Operating Limits

| | |
|------------------------------------|---------------------------------|
| Max. Operating Pressure | 150 psi (1.03 MPa) |
| Max. Feed Flow Rate | 2 gpm (0.45 m ³ /hr) |
| Max. Operating Temperature | 113°F (45°C) |
| Operating pH Range | 2.0 – 11.0 |
| Max. Turbidity | 1.0 NTU |
| Max. SDI (15 min) | 3.0 |
| Max. Chlorine Concentration | < 0.1 mg/L |

GENERAL HANDLING PROCEDURES

- Elements contained in the boxes must be kept dry at room temperature (7–32°C; 40–95°F) and should not be stored in direct sunlight.
- For WET-TYPE, the preservative solution (1% sodium metabisulfite solution) is added to prohibit the growth of micro-organisms.
- Permeate from the first hour of operation should be discarded.
- Stabilized salt rejection is generally achieved within 1~48 hours of continuous use.
- Keep elements moist at all times after initial wetting.
- Avoid excessive pressure and flow spikes.
- Only use chemicals compatible with the membrane elements and components. Use of such chemicals may void the element limited warranty.
- Permeate pressure must always be equal or less than the feed/concentrate pressure. Damage caused by permeate back pressure voids the element limited warranty.
- To ensure compliance with NSF/ANSI 58 standards, it is advised to rinse systems containing these elements for 24 hours prior to their initial use.

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Product Specification Sheet / Model RE3012-800

SPECIFICATIONS

General Features

| | |
|---------------------------------------|-----------------------------|
| Permeate Flow Rate GPD (L/Day) | 900 GPD (3,407L/day) |
| NaCl Rejection % | 95% (Minimum 93%) |
| Membrane Type | Thin-Film Composite |
| Membrane Material | Polyamide (PA) |
| Element Configuration | Spiral-Wound, Tape Wrapping |

The stated product performance is based on data taken after 30 minutes of operation at the following test Conditions: 200 mg/L NaCl solution at 80 psig (0.55 MPa) applied pressure; 40% recovery; 77°F (25°C); pH 6.5–7.0; Permeate flow rate for each element may vary +20 / -20%; Minimum salt rejection is 93.0%; All elements are vacuum leak tested using the CSM integrity test; Elements can be supplied as dry or wet-type. Wet-tested elements are soaked in a preservative solution (1.0% food grade SBS) and vacuum sealed in a poly bag. All elements are individually boxed.

Dimensions

| Model Name | A | B | C | D | E |
|------------|----------------------|---------------------|------------------------|----------------------|----------------------|
| RE3512-900 | 0.67 inch (17 mm) | 0.31 inch (8 mm) | 11.73 inch (298 mm) | 0.63 inch (16 mm) | 3.35 inch (85 mm) |



APPLICATION DATA

Operating Limits

| | |
|------------------------------------|---------------------------------|
| Max. Operating Pressure | 150 psi (1.03 MPa) |
| Max. Feed Flow Rate | 2 gpm (0.45 m ³ /hr) |
| Max. Operating Temperature | 113°F (45°C) |
| Operating pH Range | 2.0 – 11.0 |
| Max. Turbidity | 1.0 NTU |
| Max. SDI (15 min) | 3.0 |
| Max. Chlorine Concentration | < 0.1 mg/L |

GENERAL HANDLING PROCEDURES

- Elements contained in the boxes must be kept dry at room temperature (7–32°C; 40–95°F) and should not be stored in direct sunlight.
- For WET-TYPE, the preservative solution (1% sodium metabisulfite solution) is added to prohibit the growth of micro-organisms.
- Permeate from the first hour of operation should be discarded.
- Stabilized salt rejection is generally achieved within 1~48 hours of continuous use.
- Keep elements moist at all times after initial wetting.
- Avoid excessive pressure and flow spikes.
- Only use chemicals compatible with the membrane elements and components. Use of such chemicals may void the element limited warranty.
- Permeate pressure must always be equal or less than the feed/concentrate pressure. Damage caused by permeate back pressure voids the element limited warranty.
- To ensure compliance with NSF/ANSI 58 standards, it is advised to rinse systems containing these elements for 24 hours prior to their initial use.

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Product Specification Sheet / Model RE3512-900

SPECIFICATIONS

General Features

| | |
|---------------------------------------|-----------------------------|
| Permeate Flow Rate GPD (L/Day) | 600 GPD (2,271/day) |
| NaCl Rejection % | 95% (Minimum 93%) |
| Membrane Type | Thin-Film Composite |
| Membrane Material | Polyamide (PA) |
| Element Configuration | Spiral-Wound, Tape Wrapping |

The stated product performance is based on data taken after 30 minutes of operation at the following test Conditions: 200 mg/L NaCl solution at 60 psig (0.41 MPa) applied pressure; 30% recovery; 77°F (25°C); pH 6.5–7.0; Permeate flow rate for each element may vary +20 / -20%; Minimum salt rejection is 93.0%; All elements are vacuum leak tested using the CSM integrity test; Elements can be supplied as dry or wet-type. Wet-tested elements are soaked in a preservative solution (1.0% food grade SBS) and vacuum sealed in a poly bag. All elements are individually boxed.

Dimensions

| Model Name | A | B | C | D | E |
|------------|----------------------|---------------------|------------------------|----------------------|----------------------|
| RE3512-TK | 0.67 inch (17 mm) | 0.31 inch (8 mm) | 11.73 inch (298 mm) | 0.63 inch (16 mm) | 3.35 inch (85 mm) |



APPLICATION DATA

Operating Limits

| | |
|------------------------------------|---------------------------------|
| Max. Operating Pressure | 150 psi (1.03 MPa) |
| Max. Feed Flow Rate | 2 gpm (0.45 m ³ /hr) |
| Max. Operating Temperature | 113°F (45°C) |
| Operating pH Range | 2.0 – 11.0 |
| Max. Turbidity | 1.0 NTU |
| Max. SDI (15 min) | 3.0 |
| Max. Chlorine Concentration | < 0.1 mg/L |

GENERAL HANDLING PROCEDURES

- Elements contained in the boxes must be kept dry at room temperature (7–32°C; 40–95°F) and should not be stored in direct sunlight.
- For WET-TYPE, the preservative solution (1% sodium metabisulfite solution) is added to prohibit the growth of micro-organisms.
- Permeate from the first hour of operation should be discarded.
- Stabilized salt rejection is generally achieved within 1~48 hours of continuous use.
- Keep elements moist at all times after initial wetting.
- Avoid excessive pressure and flow spikes.
- Only use chemicals compatible with the membrane elements and components. Use of such chemicals may void the element limited warranty.
- Permeate pressure must always be equal or less than the feed/concentrate pressure. Damage caused by permeate back pressure voids the element limited warranty.
- To ensure compliance with NSF/ANSI 58 standards, it is advised to rinse systems containing these elements for 24 hours prior to their initial use.



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Product Specification Sheet / Model RE3512-TK

SPECIFICATIONS

General Features

| | |
|---------------------------------------|-----------------------------|
| Permeate Flow Rate GPD (L/Day) | 90 GPD (341L/day) |
| MgSO₄ Rejection % | 95% (Minimum 93%) |
| Membrane Type | Thin-Film Composite |
| Membrane Material | Polyamide (PA) |
| Element Configuration | Spiral-Wound, Tape Wrapping |

The stated product performance is based on data taken after 30 minutes of operation at the following test conditions: 250 mg/L MgSO₄ solution at 60 psig (0.41 MPa) applied pressure; 15% recovery; 77°F (25°C); pH 6.5–7.0; Permeate flow rate for each element may vary +20 / -20%; Minimum MgSO₄ rejection is 93.0%; When tested with the following conditions: 250mg/L NaCl, 60psig(0.41 MPa), 15% recovery, and 77°F (25°C), the typical stabilized salt rejection is 40~70%. However, this rejection is not aguaranteed value; All elements are vacuum leak tested using the CSM integrity test; Elements can be supplied as dry or wet-type. Wet-tested elements are soaked in a preservative solution (1.0% food grade SBS) and vacuum sealed in a poly bag. All elements are individually boxed.

Dimensions

| Model Name | A | B | C | D | E |
|------------|----------------------|----------------------|------------------------|----------------------|----------------------|
| NE1812-70 | 0.67 inch (17 mm) | 0.87 inch (22 mm) | 11.73 inch (298 mm) | 0.87 inch (22 mm) | 1.77 inch (45 mm) |



APPLICATION DATA

Operating Limits

| | |
|------------------------------------|---------------------------------|
| Max. Operating Pressure | 150 psi (1.03 MPa) |
| Max. Feed Flow Rate | 2 gpm (0.45 m ³ /hr) |
| Max. Operating Temperature | 113°F (45°C) |
| Operating pH Range | 2.0 – 11.0 |
| Max. Turbidity | 1.0 NTU |
| Max. SDI (15 min) | 3.0 |
| Max. Chlorine Concentration | < 0.1 mg/L |

GENERAL HANDLING PROCEDURES

- Elements contained in the boxes must be kept dry at room temperature (7–32°C; 40–95°F) and should not be stored in direct sunlight.
- For WET-TYPE, the preservative solution (1% sodium metabisulfite solution) is added to prohibit the growth of micro-organisms.
- Permeate from the first hour of operation should be discarded.
- Stabilized salt rejection is generally achieved within 1~48 hours of continuous use.
- Keep elements moist at all times after initial wetting.
- Avoid excessive pressure and flow spikes.
- Only use chemicals compatible with the membrane elements and components. Use of such chemicals may void the element limited warranty.
- Permeate pressure must always be equal or less than the feed/concentrate pressure. Damage caused by permeate back pressure voids the element limited warranty
- To ensure compliance with NSF/ANSI 58 standards, it is advised to rinse systems containing these elements for 24 hours prior to their initial use.

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Product Specification Sheet / Model NE1812-70

SPECIFICATIONS

General Features

| | |
|---------------------------------------|-----------------------------|
| Permeate Flow Rate GPD (L/Day) | 80 GPD (303L/day) |
| NaCl Rejection % | 98% (Minimum 96%) |
| Membrane Type | Thin-Film Composite |
| Membrane Material | Polyamide (PA) |
| Element Configuration | Spiral-Wound, Tape Wrapping |

The stated product performance is based on data taken after 30 minutes of operation at the following test Conditions: 200 mg/L NaCl solution at 60 psig (0.41 MPa) applied pressure; 15% recovery; 77°F (25°C); pH 6.5–7.0; Permeate flow rate for each element may vary +20 / -20%; Minimum salt rejection is 96.0%; All elements are vacuum leak tested using the CSM integrity test; Elements can be supplied as dry or wet-type. Wet-tested elements are soaked in a preservative solution (1.0% food grade SBS) and vacuum sealed in a poly bag. All elements are individually boxed.

Dimensions

| Model Name | A | B | C | D | E |
|------------|----------------------|----------------------|------------------------|---------------------|----------------------|
| RE1810-80 | 0.67 inch (17 mm) | 0.55 inch (14 mm) | 10.08 inch (256 mm) | 0.98 inch (25mm) | 1.77 inch (45 mm) |



APPLICATION DATA

Operating Limits

| | |
|------------------------------------|---------------------------------|
| Max. Operating Pressure | 150 psi (1.03 MPa) |
| Max. Feed Flow Rate | 2 gpm (0.45 m ³ /hr) |
| Max. Operating Temperature | 113°F (45°C) |
| Operating pH Range | 2.0 – 11.0 |
| Max. Turbidity | 1.0 NTU |
| Max. SDI (15 min) | 3.0 |
| Max. Chlorine Concentration | < 0.1 mg/L |

GENERAL HANDLING PROCEDURES

- Elements contained in the boxes must be kept dry at room temperature (7–32°C; 40–95°F) and should not be stored in direct sunlight.
- For WET-TYPE, the preservative solution (1% sodium metabisulfite solution) is added to prohibit the growth of micro-organisms.
- Permeate from the first hour of operation should be discarded.
- Stabilized salt rejection is generally achieved within 1~48 hours of continuous use.
- Keep elements moist at all times after initial wetting.
- Avoid excessive pressure and flow spikes.
- Only use chemicals compatible with the membrane elements and components. Use of such chemicals may void the element limited warranty.
- Permeate pressure must always be equal or less than the feed/concentrate pressure. Damage caused by permeate back pressure voids the element limited warranty
- To ensure compliance with NSF/ANSI 58 standards, it is advised to rinse systems containing these elements for 24 hours prior to their initial use.



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Product Specification Sheet / Model RE1810-80

SPECIFICATIONS

General Features

| | |
|---------------------------------------|-----------------------------|
| Permeate Flow Rate GPD (L/Day) | 70 GPD (265L/day) |
| NaCl Rejection % | 98% (Minimum 96%) |
| Membrane Type | Thin-Film Composite |
| Membrane Material | Polyamide (PA) |
| Element Configuration | Spiral-Wound, Tape Wrapping |

The stated product performance is based on data taken after 30 minutes of operation at the following test Conditions: 200 mg/L NaCl solution at 60 psig (0.41 MPa) applied pressure; 15% recovery; 77°F (25°C); pH 6.5–7.0; Permeate flow rate for each element may vary +20 / -20%; Minimum salt rejection is 96.0%; All elements are vacuum leak tested using the CSM integrity test; Elements can be supplied as dry or wet-type. Wet-tested elements are soaked in a preservative solution (1.0% food grade SBS) and vacuum sealed in a poly bag. All elements are individually boxed.

Dimensions

| Model Name | A | B | C | D | E |
|------------|----------------------|----------------------|------------------------|---------------------|----------------------|
| RE1812-50 | 0.67 inch (17 mm) | 0.87 inch (22 mm) | 11.73 inch (298 mm) | 0.87 inch (22mm) | 1.77 inch (45 mm) |



APPLICATION DATA

Operating Limits

| | |
|------------------------------------|---------------------------------|
| Max. Operating Pressure | 150 psi (1.03 MPa) |
| Max. Feed Flow Rate | 2 gpm (0.45 m ³ /hr) |
| Max. Operating Temperature | 113°F (45°C) |
| Operating pH Range | 2.0 – 11.0 |
| Max. Turbidity | 1.0 NTU |
| Max. SDI (15 min) | 3.0 |
| Max. Chlorine Concentration | < 0.1 mg/L |

GENERAL HANDLING PROCEDURES

- Elements contained in the boxes must be kept dry at room temperature (7–32°C; 40–95°F) and should not be stored in direct sunlight.
- For WET-TYPE, the preservative solution (1% sodium metabisulfite solution) is added to prohibit the growth of micro-organisms.
- Permeate from the first hour of operation should be discarded.
- Stabilized salt rejection is generally achieved within 1~48 hours of continuous use.
- Keep elements moist at all times after initial wetting.
- Avoid excessive pressure and flow spikes.
- Only use chemicals compatible with the membrane elements and components. Use of such chemicals may void the element limited warranty.
- Permeate pressure must always be equal or less than the feed/concentrate pressure. Damage caused by permeate back pressure voids the element limited warranty
- To ensure compliance with NSF/ANSI 58 standards, it is advised to rinse systems containing these elements for 24 hours prior to their initial use.



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Product Specification Sheet / Model RE1812-50

SPECIFICATIONS

General Features

| | |
|---------------------------------------|-----------------------------|
| Permeate Flow Rate GPD (L/Day) | 80 GPD (303L/day) |
| NaCl Rejection % | 98% (Minimum 96%) |
| Membrane Type | Thin-Film Composite |
| Membrane Material | Polyamide (PA) |
| Element Configuration | Spiral-Wound, Tape Wrapping |

The stated product performance is based on data taken after 30 minutes of operation at the following test Conditions: 200 mg/L NaCl solution at 60 psig (0.41 MPa) applied pressure; 15% recovery; 77°F (25°C); pH 6.5–7.0; Permeate flow rate for each element may vary +20 / -20%; Minimum salt rejection is 96.0%; All elements are vacuum leak tested using the CSM integrity test; Elements can be supplied as dry or wet-type. Wet-tested elements are soaked in a preservative solution (1.0% food grade SBS) and vacuum sealed in a poly bag. All elements are individually boxed.

Dimensions

| Model Name | A | B | C | D | E |
|------------|----------------------|----------------------|------------------------|---------------------|----------------------|
| RE1812-60 | 0.67 inch (17 mm) | 0.87 inch (22 mm) | 11.73 inch (298 mm) | 0.87 inch (22mm) | 1.77 inch (45 mm) |



APPLICATION DATA

Operating Limits

| | |
|------------------------------------|---------------------------------|
| Max. Operating Pressure | 150 psi (1.03 MPa) |
| Max. Feed Flow Rate | 2 gpm (0.45 m ³ /hr) |
| Max. Operating Temperature | 113°F (45°C) |
| Operating pH Range | 2.0 – 11.0 |
| Max. Turbidity | 1.0 NTU |
| Max. SDI (15 min) | 3.0 |
| Max. Chlorine Concentration | < 0.1 mg/L |

GENERAL HANDLING PROCEDURES

- Elements contained in the boxes must be kept dry at room temperature (7–32°C; 40–95°F) and should not be stored in direct sunlight.
- For WET-TYPE, the preservative solution (1% sodium metabisulfite solution) is added to prohibit the growth of micro-organisms.
- Permeate from the first hour of operation should be discarded.
- Stabilized salt rejection is generally achieved within 1~48 hours of continuous use.
- Keep elements moist at all times after initial wetting.
- Avoid excessive pressure and flow spikes.
- Only use chemicals compatible with the membrane elements and components. Use of such chemicals may void the element limited warranty.
- Permeate pressure must always be equal or less than the feed/concentrate pressure. Damage caused by permeate back pressure voids the element limited warranty
- To ensure compliance with NSF/ANSI 58 standards, it is advised to rinse systems containing these elements for 24 hours prior to their initial use.



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Product Specification Sheet / Model RE1812-60

SPECIFICATIONS

General Features

| | |
|---------------------------------------|-----------------------------|
| Permeate Flow Rate GPD (L/Day) | 100 GPD (379L/day) |
| NaCl Rejection % | 98% (Minimum 96%) |
| Membrane Type | Thin-Film Composite |
| Membrane Material | Polyamide (PA) |
| Element Configuration | Spiral-Wound, Tape Wrapping |

The stated product performance is based on data taken after 30 minutes of operation at the following test Conditions: 200 mg/L NaCl solution at 60 psig (0.41 MPa) applied pressure; 15% recovery; 77°F (25°C); pH 6.5–7.0; Permeate flow rate for each element may vary +20 / -20%; Minimum salt rejection is 96.0%; All elements are vacuum leak tested using the CSM integrity test; Elements can be supplied as dry or wet-type. Wet-tested elements are soaked in a preservative solution (1.0% food grade SBS) and vacuum sealed in a poly bag. All elements are individually boxed.

Dimensions

| Model Name | A | B | C | D | E |
|------------|----------------------|----------------------|------------------------|---------------------|----------------------|
| RE1812-80 | 0.67 inch (17 mm) | 0.87 inch (22 mm) | 11.73 inch (298 mm) | 0.87 inch (22mm) | 1.77 inch (45 mm) |



APPLICATION DATA

Operating Limits

| | |
|------------------------------------|---------------------------------|
| Max. Operating Pressure | 150 psi (1.03 MPa) |
| Max. Feed Flow Rate | 2 gpm (0.45 m ³ /hr) |
| Max. Operating Temperature | 113°F (45°C) |
| Operating pH Range | 2.0 – 11.0 |
| Max. Turbidity | 1.0 NTU |
| Max. SDI (15 min) | 3.0 |
| Max. Chlorine Concentration | < 0.1 mg/L |

GENERAL HANDLING PROCEDURES

- Elements contained in the boxes must be kept dry at room temperature (7–32°C; 40–95°F) and should not be stored in direct sunlight.
- For WET-TYPE, the preservative solution (1% sodium metabisulfite solution) is added to prohibit the growth of micro-organisms.
- Permeate from the first hour of operation should be discarded.
- Stabilized salt rejection is generally achieved within 1~48 hours of continuous use.
- Keep elements moist at all times after initial wetting.
- Avoid excessive pressure and flow spikes.
- Only use chemicals compatible with the membrane elements and components. Use of such chemicals may void the element limited warranty.
- Permeate pressure must always be equal or less than the feed/concentrate pressure. Damage caused by permeate back pressure voids the element limited warranty.
- To ensure compliance with NSF/ANSI 58 standards, it is advised to rinse systems containing these elements for 24 hours prior to their initial use.



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Product Specification Sheet / Model RE1812-80

RE1812-LP

Low pressure grade RO elements for residential use

CSM[®]

SPECIFICATIONS

General Features

| | |
|---------------------------------------|-----------------------------|
| Permeate Flow Rate GPD (L/Day) | 30 GPD (114L/day) |
| NaCl Rejection % | 93% (Minimum 90%) |
| Membrane Type | Thin-Film Composite |
| Membrane Material | Polyamide (PA) |
| Element Configuration | Spiral-Wound, Tape Wrapping |

The stated product performance is based on data taken after 30 minutes of operation at the following test Conditions: 100 mg/L NaCl solution at 20 psig (0.14 MPa) applied pressure; 15% recovery; 77°F (25°C); pH 6.5–7.0; Permeate flow rate for each element may vary +20 / -20%; Minimum salt rejection is 90.0%; All elements are vacuum leak tested using the CSM integrity test; Elements can be supplied as dry or wet-type. Wet-tested elements are soaked in a preservative solution (1.0% food grade SBS) and vacuum sealed in a poly bag. All elements are individually boxed.

Dimensions

| Model Name | A | B | C | D | E |
|------------|----------------------|----------------------|------------------------|---------------------|----------------------|
| RE1812-LP | 0.67 inch (17 mm) | 0.87 inch (22 mm) | 11.73 inch (298 mm) | 0.87 inch (22mm) | 1.77 inch (45 mm) |



APPLICATION DATA

Operating Limits

| | |
|------------------------------------|---------------------------------|
| Max. Operating Pressure | 150 psi (1.03 MPa) |
| Max. Feed Flow Rate | 2 gpm (0.45 m ³ /hr) |
| Max. Operating Temperature | 113°F (45°C) |
| Operating pH Range | 2.0 – 11.0 |
| Max. Turbidity | 1.0 NTU |
| Max. SDI (15 min) | 3.0 |
| Max. Chlorine Concentration | < 0.1 mg/L |

GENERAL HANDLING PROCEDURES

- Elements contained in the boxes must be kept dry at room temperature (7–32°C; 40–95°F) and should not be stored in direct sunlight.
- For WET-TYPE, the preservative solution (1% sodium metabisulfite solution) is added to prohibit the growth of micro-organisms.
- Permeate from the first hour of operation should be discarded.
- Stabilized salt rejection is generally achieved within 1~48 hours of continuous use.
- Keep elements moist at all times after initial wetting.
- Avoid excessive pressure and flow spikes.
- Only use chemicals compatible with the membrane elements and components. Use of such chemicals may void the element limited warranty.
- Permeate pressure must always be equal or less than the feed/concentrate pressure. Damage caused by permeate back pressure voids the element limited warranty.
- To ensure compliance with NSF/ANSI 58 standards, it is advised to rinse systems containing these elements for 24 hours prior to their initial use.

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Product Specification Sheet / Model RE1812-LP

V.3.0 (24)

SPECIFICATIONS

General Features

| | |
|---------------------------------------|-----------------------------|
| Permeate Flow Rate GPD (L/Day) | 110 GPD (416L/day) |
| NaCl Rejection % | 98% (Minimum 96%) |
| Membrane Type | Thin-Film Composite |
| Membrane Material | Polyamide (PA) |
| Element Configuration | Spiral-Wound, Tape Wrapping |

The stated product performance is based on data taken after 30 minutes of operation at the following test Conditions: 200 mg/L NaCl solution at 60 psig (0.41 MPa) applied pressure; 15% recovery; 77°F (25°C); pH 6.5–7.0; Permeate flow rate for each element may vary +20 / -20%; Minimum salt rejection is 96.0%; All elements are vacuum leak tested using the CSM integrity test; Elements can be supplied as dry or wet-type. Wet-tested elements are soaked in a preservative solution (1.0% food grade SBS) and vacuum sealed in a poly bag. All elements are individually boxed.

Dimensions

| Model Name | A | B | C | D | E |
|------------|----------------------|----------------------|------------------------|----------------------|----------------------|
| RE2012-100 | 0.67 inch (17 mm) | 0.47 inch (12 mm) | 11.73 inch (298 mm) | 0.91 inch (23 mm) | 1.89 inch (48 mm) |



APPLICATION DATA

Operating Limits

| | |
|------------------------------------|---------------------------------|
| Max. Operating Pressure | 150 psi (1.03 MPa) |
| Max. Feed Flow Rate | 2 gpm (0.45 m ³ /hr) |
| Max. Operating Temperature | 113°F (45°C) |
| Operating pH Range | 2.0 – 11.0 |
| Max. Turbidity | 1.0 NTU |
| Max. SDI (15 min) | 3.0 |
| Max. Chlorine Concentration | < 0.1 mg/L |

GENERAL HANDLING PROCEDURES

- Elements contained in the boxes must be kept dry at room temperature (7–32°C; 40–95°F) and should not be stored in direct sunlight.
- For WET-TYPE, the preservative solution (1% sodium metabisulfite solution) is added to prohibit the growth of micro-organisms.
- Permeate from the first hour of operation should be discarded.
- Stabilized salt rejection is generally achieved within 1~48 hours of continuous use.
- Keep elements moist at all times after initial wetting.
- Avoid excessive pressure and flow spikes.
- Only use chemicals compatible with the membrane elements and components. Use of such chemicals may void the element limited warranty.
- Permeate pressure must always be equal or less than the feed/concentrate pressure. Damage caused by permeate back pressure voids the element limited warranty.
- To ensure compliance with NSF/ANSI 58 standards, it is advised to rinse systems containing these elements for 24 hours prior to their initial use.



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Product Specification Sheet / Model RE2012-100