## REXEED™-A
### Performance (in vitro)

<table>
<thead>
<tr>
<th></th>
<th>REXEED-1A</th>
<th>REXEED-15A</th>
<th>REXEED-18A</th>
<th>REXEED-21A</th>
<th>REXEED-25A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blood Flow</td>
<td>200 300 400</td>
<td>200 300 400</td>
<td>200 300 400</td>
<td>200 300 400</td>
<td>200 300 400</td>
</tr>
<tr>
<td>Urea</td>
<td>194 206 236</td>
<td>194 206 236</td>
<td>194 206 236</td>
<td>194 206 236</td>
<td>194 206 236</td>
</tr>
<tr>
<td>Creatinine</td>
<td>188 247 284</td>
<td>188 247 284</td>
<td>188 247 284</td>
<td>188 247 284</td>
<td>188 247 284</td>
</tr>
<tr>
<td>Phosphorus</td>
<td>190 227 259</td>
<td>190 227 259</td>
<td>190 227 259</td>
<td>190 227 259</td>
<td>190 227 259</td>
</tr>
<tr>
<td>Vitamin B&lt;sub&gt;12&lt;/sub&gt;</td>
<td>133 156 165</td>
<td>133 156 165</td>
<td>133 156 165</td>
<td>133 156 165</td>
<td>133 156 165</td>
</tr>
<tr>
<td>Insulin</td>
<td>78 87 92</td>
<td>78 87 92</td>
<td>78 87 92</td>
<td>78 87 92</td>
<td>78 87 92</td>
</tr>
<tr>
<td>KfU (mL/min/mtm)</td>
<td>1027 1160 1214</td>
<td>1027 1160 1214</td>
<td>1027 1160 1214</td>
<td>1027 1160 1214</td>
<td>1027 1160 1214</td>
</tr>
<tr>
<td>Effective Surface Area (m²)</td>
<td>1,3</td>
<td>1,5</td>
<td>1,8</td>
<td>2,1</td>
<td>2,5</td>
</tr>
</tbody>
</table>

### Sieving Coefficient

- **Insulin**: 1.0
- **β2-microglobulin**: 0.8
- **Myoglobin**: 0.4
- **Albumin**: 0.001

### Conditioner

- Q<sub>o</sub>: 300 mL/min; Q<sub>H</sub>: 400 mL/min; 
- KfU: 1214 mL/min; Q<sub>o</sub>: 300 mL/min; Q<sub>H</sub>: 400 mL/min

KfU: Measured with bovine blood; TP = 52 g/dL, Hct = 32.3%, Q<sub>o</sub> = 200 mL/min

EN ISO 8067, 2014

## Specifications

### REXEED-1A

#### Membrane
- REDBRANE™ (Asahi Polysulfone)

#### Internal Diameter of Hollow Fiber (mm)
- 185

#### Wall Thickness of Hollow Fiber (mm)
- 45

#### Priming Volume (mL)
- 76

#### Maximum TMP (mMg) (MPa)
- 500

#### Maximum Blood Flow (mL/min)
- 500

#### Maximum Dialysate Flow (mL/min)
- 800

#### Dimensions (mm) (L x W x D)
- 334 x 38 x 55

#### Weight (g)
- 520

### REXEED-15A

- Same as REXEED-1A

### REXEED-18A

- Same as REXEED-1A

### REXEED-21A

- Same as REXEED-1A

### REXEED-25A

- Same as REXEED-1A

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**Note:** High permeability devices, use only with ultrastation controlling equipment. EN ISO 8067-2014

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www.asahikasei-medical.com

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Advanced Engineering

Our conventional dialyzers
Straight fibers, a non-tapered housing and a partial baffle in the header cause dialysate to enter the fiber bundle with asymmetric flow patterns.

REXCEED dialyzers
Careful design of the fiber shape and fiber bundle, combined with improved geometry of the housing—a short tapered housing and extended baffle-enable rapid and uniform penetration of dialysate throughout the entire fiber bundle, improving the diffusive clearances of the REXCEED dialyzers.

Dialysate Flow & Penetration

Dye was injected into the dialysate inlet port, with dialysate flow at 500 mL/min, then 10 mL fractions were collected at the outlet port and measured for dye concentration by absorbance.

Sequential 10mL Fractions
Dye Solution

A sharp, symmetrical peak indicates rapid and complete penetration of dye into the center of the fiber bundle to give uniform flow distribution, proving the benefits of fiber bundle and housing design optimization.

Clinical Evaluation of REXCEED-A and Other PS

Good phosphate management, particularly in higher body weight patients is afforded by the superior clearance characteristics of REXCEED-A.

REXCEED-A has high removal for small toxins as well as excellent reduction rates for low molecular weight proteins such as β2-MG (M.W. 11,800). The sharp membrane cut-off minimizes albumin loss.

Clinical Evaluation of REXCEED-A and PES

Pre-Dialysis Creatinine

Three high body mass patients were changed from their original high flux polyultrone dialyzers (2.7m²) to REXCEED-25A and dialyzed for 4 weeks. Dialysis conditions were unchanged during the evaluation period, after which the patients were returned to their original dialyzers.

REXCEED
The high performance dialyzer for high performance dialysis
**Advanced Engineering**

Our conventional dialyzers
Straight fibers, a non-tapered housing and a partial baffle in the header can cause dialysate to enter the fiber bundle with asymmetric flow patterns.

**Dialysate Flow & Penetration**

Dye was injected into the dialysate inlet port, with dialysate flow at 500 mL/min, then 10 mL fractions were collected at the outlet port and measured for dye concentration by absorbance.

**REXCEED dialyzers**
Careful design of the fiber shape and fiber bundle, combined with improved geometry of the housing – a short tapered housing and extended baffle – enable rapid and uniform penetration of dialysate throughout the entire fiber bundle, improving the diffusive clearances of the REXCEED dialyzers.

**Therapeutic Benefits**

**Clinical Evaluation of REXCEED-A and Other PS**

- Urea: *p < 0.001
- Phosphate: *p < 0.001

Good phosphate management, particularly in higher body weight patients is afforded by the superior clearance characteristics of REXCEED-A.

**Clinical Evaluation of REXCEED-A and PES**

REXCEED-A has high removal for small toxins as well as excellent reduction rates for low molecular weight proteins such as β2-MG (M.W. 11,800). The sharp membrane cut-off minimizes albumin loss.

**Pre-Dialysis Creatinine**

Three high body mass patients were changed from their original high flux polysulfone dialyzers (2.7m²) to REXCEED-25A and dialyzed for 4 weeks. Dialysis conditions were unchanged during the evaluation period, after which the patients were returned to their original dialyzers.

**REXCEED**

The high performance dialyzer for high performance dialysis.
**REXCEED™-A**

**Performance (in vitro)**

<table>
<thead>
<tr>
<th><strong>REXCEED-21A</strong></th>
<th><strong>REXCEED-25A</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Blood Flow (mL/min)</td>
<td>200</td>
</tr>
<tr>
<td>Urea</td>
<td>194</td>
</tr>
<tr>
<td>Creatinine</td>
<td>188</td>
</tr>
<tr>
<td>Phosphate</td>
<td>186</td>
</tr>
<tr>
<td>Vitamin B&lt;sub&gt;12&lt;/sub&gt;</td>
<td>133</td>
</tr>
<tr>
<td>Albumin (g/L)</td>
<td>78</td>
</tr>
<tr>
<td>KCl (mEq/L)</td>
<td>66</td>
</tr>
<tr>
<td>Effective Surface Area (m&lt;sup&gt;2&lt;/sup&gt;)</td>
<td>1.3</td>
</tr>
<tr>
<td><strong>Sieving Coefficient</strong></td>
<td>1</td>
</tr>
</tbody>
</table>

**Conditioner:**
- Clearance: Qc=500mL/min, Qh=500mL/min, Qk=Qh=500mL/min, Qp=200mL/min
- KUF: Measured with bovine blood, TP=40g/dL, Hct=32% ± 3%, Qb=100mL/min
- EN ISO 8067, 2014

**Specifications**

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<tr>
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<th><strong>REXCEED-25A</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Membrane</td>
<td>REXBRANE&lt;sup&gt;™&lt;/sup&gt; (Asahi Polysulfone)</td>
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</tr>
<tr>
<td>Internal Diameter of Hollow Fiber (μm)</td>
<td>166</td>
<td>166</td>
<td>166</td>
<td>166</td>
</tr>
<tr>
<td>Wall Thickness of Hollow Fiber (μm)</td>
<td>46</td>
<td>46</td>
<td>46</td>
<td>46</td>
</tr>
<tr>
<td>Priming Volume (mL)</td>
<td>76</td>
<td>86</td>
<td>103</td>
<td>117</td>
</tr>
<tr>
<td>Maximum TMP (mm Hg (kPa))</td>
<td>500</td>
<td>500</td>
<td>500</td>
<td>500</td>
</tr>
<tr>
<td>Maximum Blood Flow (mL/min)</td>
<td>500</td>
<td>500</td>
<td>500</td>
<td>500</td>
</tr>
<tr>
<td>Maximum Dialysate Flow (mL/min)</td>
<td>500</td>
<td>500</td>
<td>500</td>
<td>500</td>
</tr>
<tr>
<td>Dimensions (mm)</td>
<td>334 x 38</td>
<td>334 x 41</td>
<td>334 x 43</td>
<td>334 x 47</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>920</td>
<td>920</td>
<td>920</td>
<td>920</td>
</tr>
<tr>
<td>Sterilization</td>
<td>Gamma-Ray</td>
<td>Gamma-Ray</td>
<td>Gamma-Ray</td>
<td>Gamma-Ray</td>
</tr>
</tbody>
</table>

Note: High permeability devices, use only with dialysate controlling equipment. EN ISO 8067, 2014

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