The CAPIOX® RX Family of Hollow Fiber Oxygenators

Neonates, children, minimized circuits and adults, one oxygenator family does it all.

with Xcoating™
Superb gas exchange. Low pressure drop. Low prime volume.

Now you can have all three with the CAPIOX® RX family of oxygenators.

**Oxygenator**

**Balanced Performance**

- Low priming volume, high gas exchange and low pressure drop are optimally balanced for superb performance.
- Hollow fibers manufactured exclusively by Terumo using a patented technology with total quality management from raw materials to finished product.
- Woven fiber bundle ensures consistent and high-performance gas exchange.
- Choice of blood outlet port configurations for easy access and increased circuit flexibility.
- Top-to-bottom blood flow path and air purge line provide excellent air removal capability.
- No DEHP used in PVC tubing.

**Hardshell Reservoir**

**Full Featured**

- Elongated shape provides a stable blood flow path and enhanced visibility at all levels from all angles.
- Rotating venous inlet improves set-up flexibility.
- No DEHP used in PVC tubing.
- Connecting mount increases flexibility in circuit set-up and oxygenator rotation.
- Funnel-shaped cardiotomy filter improves breakthrough and residual volumes.

CAPIOX® RX05 Baby RX™ Oxygenator... designed for neonates and infants

**Maximum blood flow:** 1.5 L/min
**Oxygenator priming volume:** 43 mL
**Reservoir storage capacity:** 1000 mL
CAPIOX® RX15 Oxygenator... designed for children, minimized circuits and small adults; available in two reservoir sizes

MINIMIZED CIRCUITS

With its low prime volume, high oxygen transfer capacity and excellent biocompatibility, the CAPIOX RX15 oxygenator is ideal for use in minimized perfusion circuits.

Maximum blood flow: 4.0 L/min
Oxygenator priming volume: 135 mL
Reservoir storage capacity: 3000 mL

Maximum blood flow: 5.0 L/min
Oxygenator priming volume: 135 mL
Reservoir storage capacity: 4000 mL

X Coating biopassive surface coating reduces platelet adhesion and minimizes platelet activation.

On non-coated surfaces, platelet adhesion increases, resulting in platelet activation and blood reaction.

East outlet port
Oxy inlet on left when outlet is facing away from user
**CAPIOX® RX25 Oxygenator... designed for reduced prime volume in adult circuits.**

- **Maximum blood flow:** 7.0 L/min
- **Oxygenator priming volume:** 250 mL
- **Reservoir storage capacity:** 4000 mL

With its low prime volume, high oxygen transfer capacity and excellent biocompatibility, the CAPIOX RX15 oxygenator is ideal for use in minimized perfusion circuits.

**CaioX® RX Family of Oxygenators, perfect balance for every patient**

- Superb O₂ transfer
- Low pressure drop
- Low priming volume

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**TOTM – an alternative plasticizer**

Terumo Corporation is ever striving to develop new medical technologies with minimal burden to patients and the environment. Our efforts are closely linked to our corporate philosophy of contributing to society through health care by providing safe and trustworthy products. In line with this vision, Terumo provides an alternative plasticizer for the manufacturing of its products. TOTM (trioctyl trimellitate) offers outstanding physical properties, such as flexibility, to the material and low plasticizer elution.
Performance data

**CAPIOX® RX05 Baby RX™ Hollow Fiber Oxygenator**

- **O₂ transfer rate (in vitro)**
- **CO₂ transfer rate (in vitro)**
- **Heat exchange performance factor (in vitro)**
- **Blood side pressure drop (in vitro)**

**CAPIOX® RX15 Hollow Fiber Oxygenator**

- **O₂ transfer rate (in vitro)**
- **CO₂ transfer rate (in vitro)**
- **Heat exchange performance factor (in vitro)**
- **Blood side pressure drop (in vitro)**

**CAPIOX® RX25 Hollow Fiber Oxygenator**

- **O₂ transfer rate (in vitro)**
- **CO₂ transfer rate (in vitro)**
- **Heat exchange performance factor (in vitro)**
- **Blood side pressure drop (in vitro)**

**Holder systems**

**CAPIOX RX05 Baby RX oxygenator**
- Holder for RX05 oxygenator with hardshell reservoir, order no. XX*CXH05R

**CAPIOX RX15 and CAPIOX RX25 oxygenators**
- Holder for RX15/25 oxygenator, order nos.: XX*CXH15 (Europe only) 812613, RX15 (US only) 812614, RX25 (US only) XX*CXH18 (US and Europe)
- Holder for RX15/25 oxygenator with hardshell reservoir, order nos.: XX*CXH18R (Europe only) XX*XHO32, short arm (Europe only) 801804 (US and Europe)
The CAPIOX® RX Family of Hollow Fiber Oxygenators

Specifications

Oxygenator

Note: The oxygenator module of the oxygenator/hardshell reservoir system is rotatable and detachable.

Materials

<table>
<thead>
<tr>
<th>RX05</th>
<th>RX15</th>
<th>RX15</th>
<th>RX25</th>
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</thead>
<tbody>
<tr>
<td>Housing</td>
<td>Polyvinyl chloride</td>
<td>Polyvinyl chloride</td>
<td>Polyvinyl chloride</td>
</tr>
<tr>
<td>Fibers</td>
<td>Microporous polypropylene</td>
<td>Microporous polypropylene</td>
<td>Microporous polypropylene</td>
</tr>
<tr>
<td>Heat exchanger</td>
<td>Stainless steel</td>
<td>Stainless steel</td>
<td>Stainless steel</td>
</tr>
</tbody>
</table>

Fibers

Approx. surface area

- 0.5 m²
- 1.5 m²
- 1.5 m²
- 2.5 m²

Heat exchanger

Approx. surface area

- 0.035 m²
- 0.14 m²
- 0.14 m²
- 0.2 m²

Blood flow range

- 0.1 - 1.5 L/min
- 0.5 - 4.0 L/min
- 0.5 - 5.0 L/min
- 0.5 - 7.0 L/min

Ports

- Blood inlet port
  - 1/4" (6.4 mm)
  - 3/8" (9.5 mm)
- Blood outlet port
  - 1/4" (6.4 mm)
  - 3/8" (9.5 mm)
- Ports
  - Gas inlet port
    - 1/4" (6.4 mm)
  - Gas outlet port
    - 5/16" (7.9 mm)
  - Water port
    - 1/2" (12.7 mm)
- Maximum pressure
  - Blood inlet: 1,000 mmHg (133 kPa)
  - Water inlet: 2 kg/cm² (196 kPa) (28.5 psi)
- Thermistor probe
  - Blood outlet port
- Sterilization method
  - Ethylene oxide gas

Hardshell reservoir

Materials

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<tbody>
<tr>
<td>Housing</td>
<td>Venous filter</td>
<td>Cardiomyocyte filter</td>
<td>Defoamer</td>
</tr>
<tr>
<td>Polyvinyl chloride</td>
<td>Polyester screen type</td>
<td>Polyester depth type</td>
<td>Polysulfone foam</td>
</tr>
</tbody>
</table>

Blood storage capacity

- 1,000 mL
- 3,000 mL
- 4,000 mL
- 4,000 mL

Minimum operating volume

- 15 mL
- 70 mL
- 200 mL
- 200 mL

Blood flow range

- 0.1 - 1.5 L/min
- 0.5 - 4.0 L/min
- 0.5 - 5.0 L/min
- 0.5 - 7.0 L/min

Max. cardiotomy blood flow

- 1.5 L/min
- 4.0 L/min
- 5.0 L/min
- 5.0 L/min

Max. combined flow

- 1.5 L/min
- 4.0 L/min
- 5.0 L/min
- 7.0 L/min

Ports

- Venous blood inlet (rotateable)
  - 3/8" (9.5 mm)
- Blood inlet port
  - when 1/4" adapter is attached/mounted
  - 1/4" (6.4 mm)
- Blood outlet port (to pump)
  - 1/4" (6.4 mm)
- Quick prime port
  - 1/4" (6.4 mm)
- Vertical port (to CR filter)
  - 3/8" (9.5 mm)
- Ports
  - Suction ports (rotateable)
    - Five: 3/16" (4.8 mm) - 1/4" (6.4 mm)
  - Vertical port (to CR filter)
    - n/a
  - Quick prime port
    - 1/4" (6.4 mm)
  - Vent port
    - 1/4" (6.4 mm)
  - Auxiliary port
    - 1/4" - 3/8" (6.4 mm - 9.5 mm)
  - Non-filtered luer lock
    - One
  - Luer locks on venous inlet
    - Two
  - Luer locks to cardiomycyte filter
    - Three
  - Luer locks to cardiomycyte filter
    - Three
  - Thermistor probe
    - Venous blood inlet port
  - Sterilization method
    - Ethylene oxide gas

Maximum sustainable negative pressure in reservoir

- 150 mmHg (19.8 kPa)

Ordering information

Catalog number | Description | Units/case
--- | --- | ---
CAPIOX® RX05 Baby RX® Oxygenator | CX*RX05E | 4
 | CX*RX05W | 4
 | CX*RX05RE | 4

CAPIOX® RX15 Oxygenator | CX*RX15E | 4
 | CX*RX15W | 4
 | CX*RX15RE30 | 4
 | CX*RX15R40 | 4

CAPIOX® RX25 Oxygenator | CX*RX25E | 4
 | CX*RX25W | 4
 | CX*RX25RE | 4
 | CX*RX25R40 | 4

1. Oxy inlet on right when outlet is facing away from user
2. Oxy inlet on left when outlet is facing away from user
3. Includes one 1/8" and two 1/4" adapters
4. Includes four 1/4" adapters

Manufactured by Terumo Corporation, Tokyo, Japan

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