

CAPIOX® RX15 Oxygenators

The perfect choice for children and small adults



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

Xcoating™



TERUMO®

A New Generation of Medium-Size Oxygenator Systems with Extensive Applications

As a global leader in perfusion technology, Terumo is proud to announce the RX15, a medium-size model with a wide application range: from pediatrics to adults. Combined with the BABY-RX™ (for neonates and infants) and the RX25 (for adults), the RX15 completes the CAPIOX RX series, which now covers the entire range of needs while offering a consistent product design that assures smooth operation.

CAPIOX RX15 Oxygenators

Realizing Exceptional Balance



- Low priming volume, high gas exchange and low pressure drop features are optimally balanced for superior 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.
- Blood outlet port positioned for easy access and increased circuit flexibility.
- Top-to-bottom blood flow path and air purge line provide excellent air removal capability.

Blood Outlet Port Selection

Choose the port configuration that best suits your circuit. When blood outlet is facing away from user, E version = water inlet on right, W version = water inlet on left.

Catalog No. (left photo)	Description	Catalog No. (right photo)
CX*RX15W	Hollow fiber oxygenator	CX*RX15E
CX*RX15RW	Hollow fiber oxygenator with hardshell reservoir	CX*RX15RE



CX*RX15W
CX*RX15RW

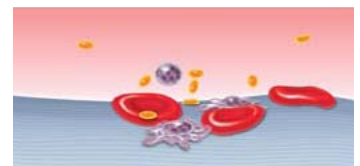
CX*RX15E
CX*RX15RE



Terumo's own biocompatible hydrophilic polymer surface coating – a standard feature of CAPIOX RX oxygenators.



Xcoating reduces platelet adhesion and minimizes platelet activation.



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

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

CAPIOX® Oxygenators: A Terumo tradition of leadership

The RX series features high gas exchange, low priming volume, low pressure drop, TOTM (trioctyl trimellitate), an alternative plasticizer to DEHP, and Terumo's own Xcoating. With two types of hardshell reservoirs available (4000mL and 3000mL), the CAPIOX RX15 is destined to become the core of Terumo's cardiovascular product lineup. We at Terumo continue to pioneer innovations that advance the field and help both medical professionals and their patients.

CAPIOX Hardshell Reservoir

Easier to Read, Easier to Use

- Two reservoir types are available: 4000mL or 3000mL maximum blood storage capacity.
- Elongated shape provides a stable blood flow path and enhanced visibility at all levels from all angles.
- Rotating venous inlet improves setup flexibility.
- No DEHP used in PVC tubing.
- Connecting mount increases flexibility in circuit setup and oxygenator rotation.
- Funnel-shaped cardiotomy filter improves breakthrough and residual volumes.



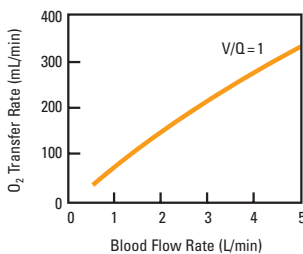
Max. blood storage capacity:
4000mL



Max. blood storage capacity:
3000mL

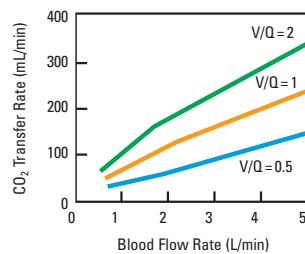
Performance Data

O₂ transfer rate (in vitro)



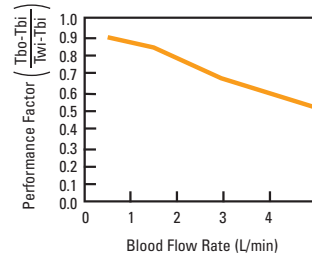
Conditions
 Blood = Bovine blood Hb = 12 ± 1g/dL
 SvO₂ = 65% PvCO₂ = 45 ± 5mmHg
 B.E. = 0 ± 5mEq/L Temp = 37 ± 1°C

CO₂ transfer rate (in vitro)



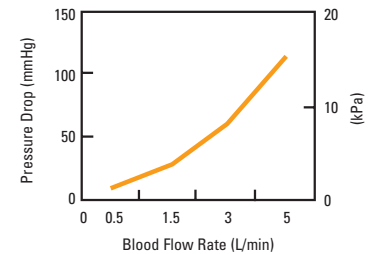
Conditions
 Blood = Bovine blood Hb = 12 ± 1g/dL
 SvO₂ = 65% PvCO₂ = 45 ± 5mmHg
 B.E. = 0 ± 5mEq/L Temp = 37 ± 1°C

Heat exchange performance factor (in vitro)



Conditions
 Blood = Bovine blood Hb = 12 ± 1g/dL
 T_{bi} = 30 ± 1°C T_{wi} = 40 ± 1°C
 Water Flow Rate = 0 ± 5mEq/L

Blood side pressure drop (in vitro)



Conditions
 Blood = Bovine blood Ht = 35%
 B.E. = 0 ± 5mEq/L Temp = 37°C



TOTM – an alternative plasticizer

Terumo 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.

CAPIOX® RX15 Membrane Oxygenators

Product Specifications

Oxygenator module

Component	Specifications
Housing material	Polycarbonate
Fiber surface area	Approx. 1.5m ²
Fiber material	Microporous polypropylene
Heat exchanger surface area	Approx. 0.14m ²
Heat exchanger material	Stainless steel
Priming volume (static)	135mL
Blood flow range	0.5-5L/min when using R40 hardshell reservoir 0.5-4L/min when using R30 hardshell reservoir
Maximum pressure:	
blood inlet	1000mmHg (133kPa)
water inlet	2kgf/cm ² (196kPa)
Ports	
• Blood inlet port (from pump)	3/8" (9.5mm) ^{*1}
• Blood outlet port	3/8" (9.5mm) ^{*1}
• Cardioplegia port	1/4" (6.4mm)
• Gas inlet port	1/4" (6.4mm)
• Gas outlet port	1/4" (6.4mm)
• Water ports	1/2" (12.7mm), Hansen quick connect fittings
Thermistor probe	Blood outlet port
Sterilization method	Ethylene oxide gas

^{*1} 1/4" (6.4mm) when 1/4" adaptor is mounted.

Hardshell reservoir section^{*2} (Two types available)

Component	Specifications	Specifications
Reservoir type	R40	R30
Housing material	Polycarbonate	Polycarbonate
Maximum blood storage capacity	4000mL	3000mL
Minimum operating volume	200mL	70mL
Blood flow range	0.5-5.0L/min	0.5-4.0L/min
Maximum operating negative pressure in reservoir	-20kPa (-150mmHg)	-20kPa (-150mmHg)
Ports		
• Venous blood inlet port (rotatable)	1/2" (12.7mm)	3/8" (9.5mm) ^{*3}
• Blood outlet port (to pump)	3/8" (9.5mm)	3/8" (9.5mm) ^{*3}
• Suction ports	1/4" (6.4mm) x 6	1/4" (6.4mm) x 6
• 3/8" port (in cardiomy filter)	3/8" (9.5mm)	3/8" (9.5mm)
• Quick prime port	1/4" (6.4mm)	1/4" (6.4mm)
• 1/4" - 3/8" port (outside of cardiomy filter)	1/4"-3/8"(6.4-9.5mm)	1/4"-3/8"(6.4-9.5mm)
• Luer ports	Three filtered luer locks	Three filtered luer locks
	One non-filtered luer lock	One non-filtered luer lock
	Two luer locks on venous inlet	Two luer locks on venous inlet
• Reservoir vent port	1/4" (6.4mm)	1/4" (6.4mm)
Thermistor probe	Venous blood inlet	Venous blood inlet
Sterilization method	Ethylene oxide gas	Ethylene oxide gas

^{*2} Oxygenator integrated with hardshell reservoir is rotatable and detachable.

^{*3} 1/4" (6.4mm) when 1/4" adaptor is mounted.

Ordering Information

Catalog No.	Blood outlet	Reservoir Capacity	Units/Case
CX*RX15RE30 ^{*1}	Type E	3000mL (R30)	4/cs
CX*RX15RE40 ^{*1}	Type E	4000mL (R40)	4/cs
CX*RX15RW30 ^{*1}	Type W	3000mL (R30)	4/cs
CX*RX15RW40 ^{*1}	Type W	4000mL (R40)	4/cs
CX*RX15E ^{*2}	Type E	n/a	4/cs
CX*RX15W ^{*2}	Type W	n/a	4/cs

^{*1} Hollow fiber oxygenator with hardshell reservoir, ^{*2} Hollow fiber oxygenator

Accessories for CAPIOX RX Oxygenators

801804 ^{*1}	Holder for oxygenator with hardshell reservoir
801139 ^{*1}	Short arm holder for oxygenators with hardshell reservoir
812614 ^{*1}	Holder for RX15 oxygenator without hardshell reservoir
XX*CXH18 ^{*1}	Holder for oxygenator only
XX*CXH18R ^{*2}	Extended holder for oxygenator with hardshell reservoir
XX*XH032 ^{*2}	Short holder for oxygenator with hardshell reservoir
XX*CXH15 ^{*2}	Holder for RX15 or RX25 oxygenator without hardshell reservoir
CX*BP021 ^{*1}	Blue lead wire for oxygenators
CX*BP022 ^{*1}	Red lead wire for oxygenators
ME*CE601 ^{*1}	Low-level alarm for hardshell venous reservoir
XX*CE601P ^{*1}	Low level sensor probe for hardshell venous reservoir

^{*1} available in EU and USA, ^{*2} available in EU



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