

The CAPIOX® RX Family of Hollow Fiber Oxygenators

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

with *Xcoating*™



 **TERUMO**

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 cardiomy 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

Choose the blood outlet port configuration that best suits your circuit.

West outlet port
Oxy inlet on right when outlet is facing away from user



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.



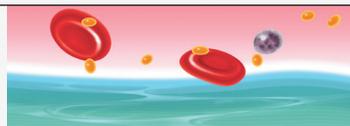
Maximum blood flow: 4.0 L/min
Oxygenator priming volume: 135 mL
Reservoir storage capacity: 3000 mL



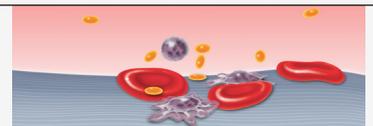
Maximum blood flow: 5.0 L/min
Oxygenator priming volume: 135 mL
Reservoir storage capacity: 4000 mL



East outlet port
 Oxy inlet on left when outlet is facing away from user



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.

CAPIOX® RX25 Oxygenator... designed for reduced prime volume in adult circuits.



CAPIOX® RX Family of Oxygenators, perfect balance for every patient

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

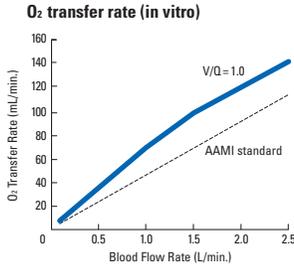
Maximum blood flow: 7.0 L/min
Oxygenator priming volume: 250 mL
Reservoir storage capacity: 4000 mL



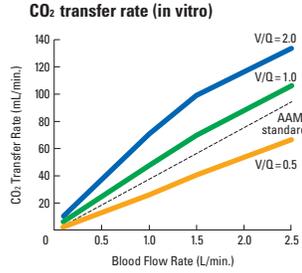
TOTM – an alternative plasticizer Terumo Corporation is ever striving to develop new medical technologies with minimal burden to patients and the environment. Our efforts are closely linked to our corporate philosophy of contributing to society through health care by providing safe and trustworthy products. 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

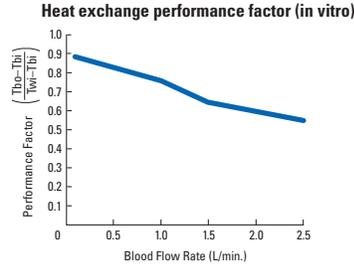
CAPIOX® RX05 Baby RX™ Hollow Fiber Oxygenator



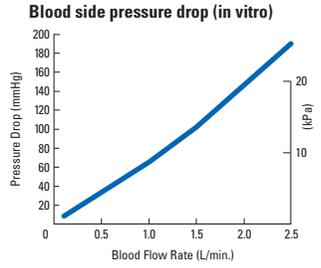
Conditions
 Blood = Bovine blood Hb = 121g/dL
 SvO₂ = 65% PvCO₂ = 45mmHg
 B.E. = 05mEq/L Temp. = 371°C



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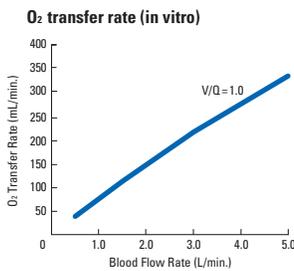


Conditions
 Blood = Bovine blood Hb = 121g/dL
 T_{bi} = 301°C T_{wi} = 40°C
 Water Flow Rate = 15L/min.

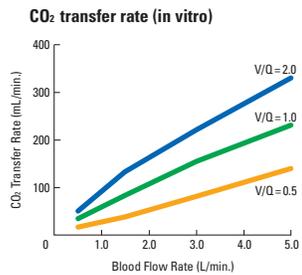


Conditions
 Blood = Bovine blood Ht = 35%
 B.E. = 05mEq/L Temp. = 371°C

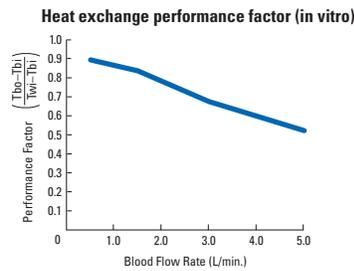
CAPIOX® RX15 Hollow Fiber Oxygenator



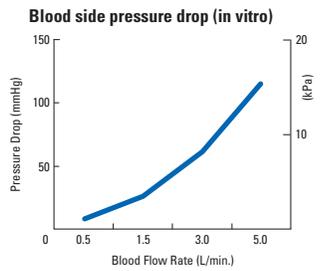
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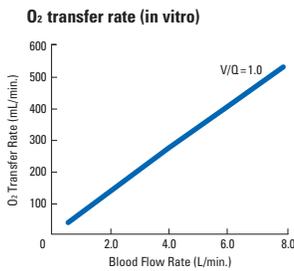


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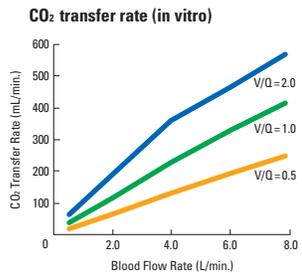


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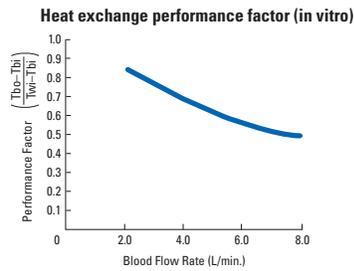
CAPIOX® RX25 Hollow Fiber Oxygenator



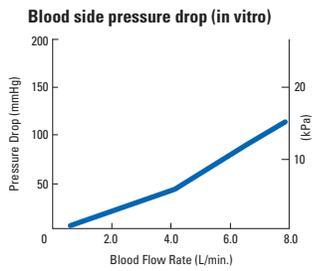
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Holder systems

CAPIOX RX05 Baby RX oxygenator



Holder for RX05 oxygenator with hardshell reservoir, order no. XX*CXH05R



Holder for RX05 oxygenator, order no. XX*CXH05

CAPIOX RX15 and CAPIOX RX25 oxygenators



Holder for RX15/25 oxygenator, order nos.:

XX*CXH15 (Europe only)
 812614, RX15 (US only)
 812613, RX25 (US only)



Holder for RX15/25 oxygenator with hardshell reservoir, order nos.:

XX*CXH18R (Europe only)
 XX*XH032, short arm (Europe only)
 801804 (US and Europe)



Holder for RX15/25 oxygenator, order no.:

XX*CXH18 (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 Housing Polycarbonate
Fibers Microporous polypropylene
Heat exchanger Stainless steel

	RX05	RX15 R30 reservoir	RX15 R40 reservoir	RX25
Fibers				
Approx. surface area	0.5 m ²	1.5 m ²	1.5 m ²	2.5 m ²
Heat exchanger				
Approx. surface area	0.035 m ²	0.14 m ²	0.14 m ²	0.2 m ²
Blood flow range	0.1 - 1.5L/min	0.5 - 4.0L/min	0.5 - 5.0L/min	0.5 - 7.0L/min
Ports Blood inlet port (from pump)	1/4" (6.4 mm)	3/8" (9.5 mm)	3/8" (9.5 mm)	3/8" (9.5 mm)
Ports Blood outlet port	1/4" (6.4 mm)	3/8" (9.5 mm)	3/8" (9.5 mm)	3/8" (9.5 mm)
Ports Cardioplegia port	Luer port	1/4" (6.4 mm)		
Ports Gas inlet port	1/4" (6.4 mm)			
Ports Gas outlet port	5/16" (7.9 mm)	1/4" (6.4 mm)		
Ports Water ports	1/2" (12.7 mm) Hansen quick connect fittings			
Maximum pressure Blood inlet	1,000 mmHg (133 kPa)			
Maximum pressure Water inlet	2 kgf/cm ² (196 kPa)(28.5 psi)			
Thermistor probe	Blood outlet port			
Sterilization method	Ethylene oxide gas			

Hardshell reservoir

Materials Housing Polycarbonate
Venous filter Polyester screen type
Cardiotomy filter Polyester depth type
Defoamer Polyurethane foam

	RX05	RX15 R30 reservoir	RX15 R40 reservoir	RX25
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 - 1.5L/min	0.5 - 4.0L/min	0.5 - 5.0L/min	0.5 - 7.0L/min
Max. cardiotomy blood flow	1.5L/min	4.0L/min	5.0L/min	5.0L/min
Max. combined flow	1.5L/min	4.0L/min	5.0L/min	7.0L/min
Ports Venous blood inlet (rotatable) >when 1/4" adaptor is attached/mounted	1/4" (6.4 mm)	3/8" (9.5 mm); 1/4" (6.4 mm)	1/2" (12.7 mm)	1/2" (12.7 mm)
Ports Blood outlet port (to pump) >when 1/4" adaptor is attached/mounted	1/4" (6.4 mm)	3/8" (9.5 mm); 1/4" (6.4 mm)	3/8" (9.5 mm)	3/8" (9.5 mm)
Ports Suction ports (rotatable)	Five: 3/16" - 1/4" (4.8 mm - 6.4 mm)		Six: 1/4" (6.4 mm)	
Ports Vertical port (to CR filter)	n/a	3/8" (9.5 mm)		
Ports Quick prime port	1/4" (6.4 mm)			
Ports Vent port	1/4" (6.4 mm)			
Ports Auxiliary port	1/4" - 3/8" (6.4 mm - 9.5 mm)			
Ports Non-filtered luer lock	One	One	One	One
Ports Luer locks on venous inlet	Two	Two	Two	Two
Ports Luer locks to cardiotomy filter	Three	Four	Three	Three
Thermistor probe	Venous blood inlet port			
Sterilization method	Ethylene oxide gas			
Maximum sustainable negative pressure in reservoir	-150 mmHg (-20.0 kPa)			

Ordering information

CATALOG NUMBER	DESCRIPTION	UNITS/CASE	CATALOG NUMBER	DESCRIPTION	UNITS/CASE
CAPIOX® RX05 Baby RX™ Oxygenator					
CX*RX05E	Hollow fiber oxygenator ²	4	XX*CXH05R	Holder for RX05 oxygenator with hardshell reservoir	1
CX*RX05W	Hollow fiber oxygenator ¹	4	XX*CXH05	Holder for RX05 oxygenator	1
CX*RX05RE	Hollow fiber oxygenator with hardshell reservoir ^{2,3}	4	XX*CXH05AD	Adapter for SX holder for RX05	1
CX*RX05RW	Hollow fiber oxygenator with hardshell reservoir ^{1,3}	4	801139	Holder for RX15/25 oxygenator with hardshell reservoir (short arm)	1
CAPIOX® RX15 Oxygenator					
CX*RX15E	Hollow fiber oxygenator ²	4	801804	Holder for RX15/25 oxygenator with hardshell reservoir (long arm)	1
CX*RX15W	Hollow fiber oxygenator ¹	4	812613	Holder for RX25 oxygenator (US only)	1
CX*RX15RE30	Hollow fiber oxygenator with hardshell reservoir ^{2,4}	4	812614	Holder for RX15 oxygenator (US only)	1
CX*RX15RW30	Hollow fiber oxygenator with hardshell reservoir ^{1,4}	4	XX*CXH18	Holder for RX15/25 oxygenator	1
CX*RX15RE40	Hollow fiber oxygenator with hardshell reservoir ²	4	XX*CXH15	Holder for RX15/25 oxygenator (Europe only)	1
CX*RX15RW40	Hollow fiber oxygenator with hardshell reservoir ¹	4	XX*CXH18R	Holder for RX15/25 oxygenator with hardshell reservoir (Europe only)	1
CAPIOX® RX25 Oxygenator					
CX*RX25E	Hollow fiber oxygenator ²	4	XX*XH032	Holder for RX15/25 oxygenator with hardshell reservoir, short arm (Europe only)	1
CX*RX25W	Hollow fiber oxygenator ¹	4	Accessories for CAPIOX® RX Oxygenators		
CX*RX25RE	Hollow fiber oxygenator with hardshell reservoir ²	4	ME*CE601	Low-level alarm for SX/RX hardshell venous reservoir	1
CX*RX25RW	Hollow fiber oxygenator with hardshell reservoir ¹	4	XX*CE601P	Low-level sensor probe for SX/RX hardshell venous reservoir	1
			CX*BP021	Blue thermistor wire	10
			CX*BP022	Red thermistor wire	10

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 3/8" and two 1/4" adapters

4. Includes four 1/4" adapters

Manufactured by Terumo Corporation, Tokyo, Japan



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