

The CAPIOX® RX Family of Hollow Fiber Oxygenators

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

with *X*coating™



 **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 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

**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 priming volume
- Low pressure drop

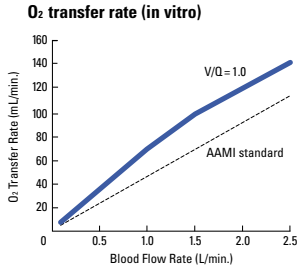
Maximum blood flow: 7.0 L/min
Oxygenator priming volume: 250 mL
Reservoir storage capacity: 4000 mL



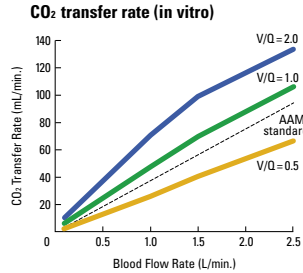
TOTM – an alternative plasticizer Terumo Corporation is ever striving to develop new medical technologies with minimal burden to patients and the environment. Our efforts are closely linked to our corporate philosophy of contributing to society through health care by providing safe and trustworthy products.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

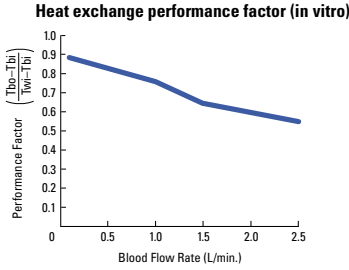
CAPIOX® RX05 Baby RX™ Hollow Fiber Oxygenator



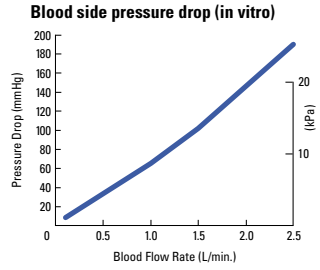
Conditions
 Blood = Bovine blood Hb = 12±1g/dL
 SvO₂ = 65±5% PvCO₂ = 45±5mmHg
 B.E. = 0±5mEq/L Temp. = 37±1°C



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

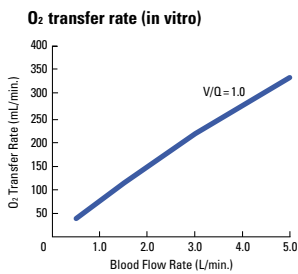


Conditions
 Blood = Bovine blood Hb = 12±1g/dL
 T_{bi} = 30±1°C T_{wi} = 40°C
 Water Flow Rate = 15L/min.

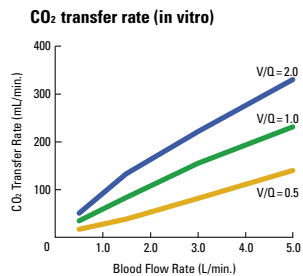


Conditions
 Blood = Bovine blood Ht = 35%
 B.E. = 0±5mEq/L Temp. = 37±1°C

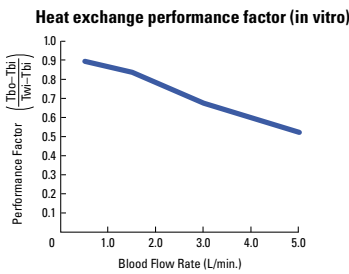
CAPIOX® RX15 Hollow Fiber Oxygenator



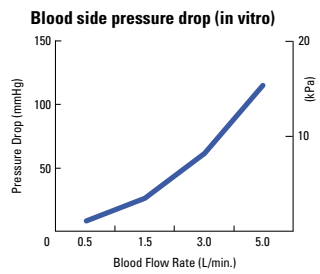
Conditions
 Blood = Bovine blood Hb = 12±1g/dL
 SvO₂ = 65±5% PvCO₂ = 45±5mmHg
 B.E. = 0±5mEq/L Temp. = 37±1°C



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

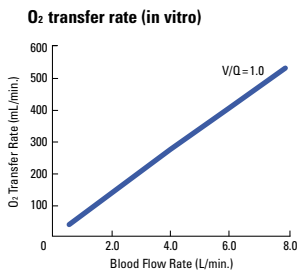


Conditions
 Blood = Bovine blood Hb = 12±1g/dL
 T_{bi} = 30±1°C T_{wi} = 40°C
 Water Flow Rate = 15L/min.

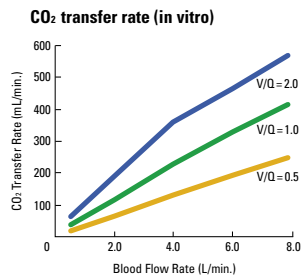


Conditions
 Blood = Bovine blood Ht = 35%
 B.E. = 0±5mEq/L Temp. = 37±1°C

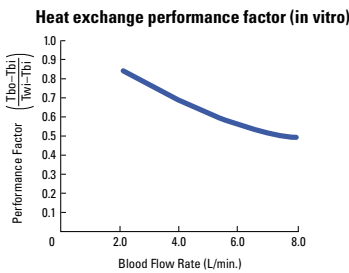
CAPIOX® RX25 Hollow Fiber Oxygenator



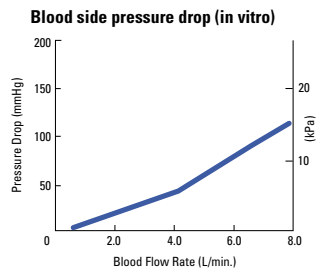
Conditions
 Blood = Bovine blood Hb = 12±1g/dL
 SvO₂ = 65±5% PvCO₂ = 45±5mmHg
 B.E. = 0±5mEq/L Temp. = 37±1°C



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



Conditions
 Blood = Bovine blood Hb = 12±1g/dL
 T_{bi} = 30±1°C T_{wi} = 40°C
 Water Flow Rate = 15L/min.



Conditions
 Blood = Bovine blood Ht = 35%
 B.E. = 0±5mEq/L Temp. = 37±1°C

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	0.5m ²	1.5m ²	1.5m ²	2.5m ²
Heat exchanger				
Approx. surface area	0.035m ²	0.14m ²	0.14m ²	0.2m 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" (6.4mm)	1/4" (6.4mm)	3/8" (9.5mm)	3/8" (9.5mm)
Ports Blood outlet port	1/4" (6.4mm)	1/4" (6.4mm)	3/8" (9.5mm)	3/8" (9.5mm)
Ports Cardioplegia port	Luer port	1/4" (6.4mm)		
Ports Gas inlet port	1/4" (6.4mm)			
Ports Gas outlet port	5/16" (7.9mm)	1/4" (6.4mm)		
Ports Water ports	1/2" (12.7mm)	Hansen quick connect fittings		
Maximum pressure Blood inlet	1,000mmHg (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	1,000mL	3,000mL	4,000mL	4,000mL
Minimum operating volume	15mL	70mL	200mL	200mL
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" (6.4mm)	3/8" (9.5mm); 1/4" (6.4mm)	1/2" (12.7mm)	1/2" (12.7mm)
Ports Blood outlet port (to pump) > when 1/4" adaptor is attached/mounted	1/4" (6.4mm)	3/8" (9.5mm); 1/4" (6.4mm)	3/8" (9.5mm)	3/8" (9.5mm)
Ports Suction ports (rotatable)	Five: 3/16" - 1/4" (4.8mm - 6.4mm)	Six: 1/4" (6.4mm)		
Ports Vertical port (to CR filter)	n/a	3/8" (9.5mm)		
Ports Quick prime port	1/4" (6.4mm)			
Ports Vent port	1/4" (6.4mm)			
Ports Auxiliary port	1/4" - 3/8" (6.4mm - 9.5mm)			
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	-150mmHg (-20.0kPa)			

Ordering information

CATALOG NUMBER	DESCRIPTION	UNITS/CASE
CAPIOX® RX05 Baby RX™ Oxygenator		
CX*RX05E	Hollow fiber oxygenator ²	4
CX*RX05W	Hollow fiber oxygenator ¹	4
CX*RX05RE	Hollow fiber oxygenator with hardshell reservoir ^{2,3}	4
CX*RX05RW	Hollow fiber oxygenator with hardshell reservoir ^{1,3}	4
CAPIOX® RX15 Oxygenator		
CX*RX15E	Hollow fiber oxygenator ²	4
CX*RX15W	Hollow fiber oxygenator ¹	4
CX*RX15RE30	Hollow fiber oxygenator with hardshell reservoir ^{2,4}	4
CX*RX15RW30	Hollow fiber oxygenator with hardshell reservoir ^{1,4}	4
CX*RX15RE40	Hollow fiber oxygenator with hardshell reservoir ²	4
CX*RX15RW40	Hollow fiber oxygenator with hardshell reservoir ¹	4
CAPIOX® RX25 Oxygenator		
CX*RX25E	Hollow fiber oxygenator ²	4
CX*RX25W	Hollow fiber oxygenator ¹	4
CX*RX25RE	Hollow fiber oxygenator with hardshell reservoir ²	4
CX*RX25RW	Hollow fiber oxygenator with hardshell reservoir ¹	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

CATALOG NUMBER	DESCRIPTION	UNITS/CASE
Holders for CAPIOX® RX Oxygenators		
XX*CXH05R	Holder for RX05 oxygenator with hardshell reservoir	1
XX*CXH05	Holder for RX05 oxygenator	1
XX*CXH05AD	Adapter for SX holder for RX05	1
801139	Holder for RX15/25 oxygenator with hardshell reservoir (short arm)	1
801804	Holder for RX15/25 oxygenator with hardshell reservoir (long arm)	1
812613	Holder for RX25 oxygenator (US only)	1
812614	Holder for RX15 oxygenator (US only)	1
XX*CXH18	Holder for RX15/25 oxygenator	1
XX*CXH15	Holder for RX15/25 oxygenator (Europe only)	1
XX*CXH18R	Holder for RX15/25 oxygenator with hardshell reservoir (Europe only)	1
XX*XH032	Holder for RX15/25 oxygenator with hardshell reservoir, short arm (Europe only)	1

Accessories for CAPIOX® RX Oxygenators

ME*CE601	Low-level alarm for SX/RX hardshell venous reservoir	1
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

3. Includes one 3/8" and two 1/4" adapters 4. Includes four 1/4" adapters

Manufactured by Terumo Corporation, Tokyo, Japan



For more information on this or other Terumo cardiovascular products, contact:

TERUMO CARDIOVASCULAR SYSTEMS CORPORATION
6200 Jackson Road
Ann Arbor, Michigan 48103-9300
USA
734 663 4145 phone
734 663 7981 fax
800 521 2818 toll free
www.terumo-cvs.com

TERUMO CORPORATION
44-1, 2-chome
Hatagaya, Shibuya-ku
Tokyo 151-0072
Japan
81 3 3374 8111 phone
81 3 3374 8196 fax
www.terumo.com

TERUMO EUROPE N.V.
Authorized EC Representative
Interleuvenlaan 40
B-3001 Leuven
Belgium
32 16 38 12 11 phone
32 16 40 02 49 fax
www.terumo-europe.com

TERUMO EUROPE N.V.
Cardiovascular Division
Hauptstrasse 87
D-65760 Eschborn
Germany
49 6196 8023 500 phone
49 6196 8023 555 fax

TERUMO LATIN AMERICA CORPORATION
8750 NW 36th Street, Suite 600
Miami, Florida 33178
USA
305 477 4822 phone
305 477 4872 fax
800 283 7866 toll free