



**Hollow Fiber Oxygenator
for Neonates and Infants**

CAPIOX[®] RX₀₅ with *Xcoating[™]*



**Perfectly
balanced for
your smallest
patients**

Oxygenator
priming volume

43mL
43mL
43mL

Maximum blood flow

1.5L/min.
1.5L/min.
1.5L/min.

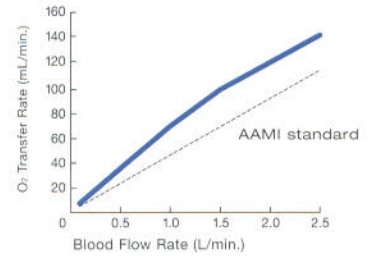
We keep life flowing

 **TERUMO[®]**



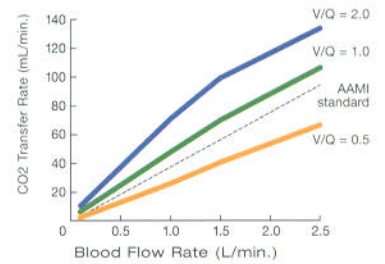
Performance data

O₂ transfer rate (in vitro)



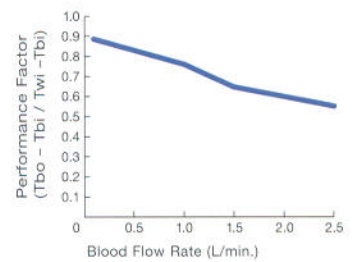
Conditions
 Blood = Bovine blood SvO₂ = 65%
 Hb = 12g/dL PCO₂ = 45mmHg
 Temp. = 37°C B.E. = 0mEq/L
 pH = 7.4 V/Q = 1.0

CO₂ transfer rate (in vitro)



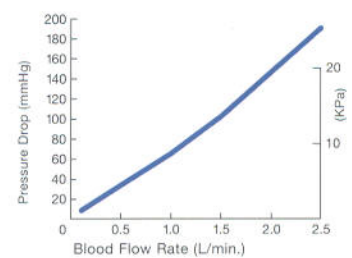
Conditions
 Blood = Bovine blood SvO₂ = 65%
 Hb = 12g/dL PCO₂ = 45mmHg
 Temp. = 37°C B.E. = 0mEq/L
 pH = 7.4

Heat exchange performance factor (in vitro)



Conditions
 Blood = Bovine blood Twi = 40°C
 Ht = 35% Water Flow Rate = 15L/min.
 Tbi = 30°C

Blood side pressure drop (in vitro)



Conditions
 Blood = Bovine blood
 Ht = 35%
 Temp. = 37°C

CAPIOX® features in an oxygenator specially designed for neonates and infants



The BABY-RX oxygenator is the newest addition to the CAPIOX family, incorporating many familiar features into a new design. It offers Terumo's well-earned reputation for consistent, reliable, high-quality oxygenators; its exclusive hollow fiber; and well-known features like rotating ports and separate filters in the venous reservoir. In addition, BABY-RX offers the benefits of X Coating, Terumo's biocompatible, hydrophilic polymer surface coating (see below). All this is packaged into a design where everything from the reservoir, to the holders, to the orientation of the ports, has been thoughtfully designed for pediatric perfusionists and their smallest patients. And most importantly, BABY-RX offers high flow rates with the lowest priming volume in the industry*1.

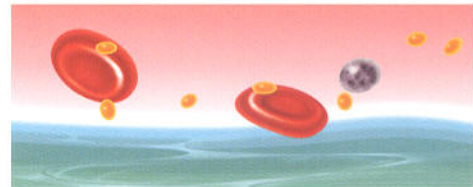
*1: Per manufacturers_ specifications, May 2002.



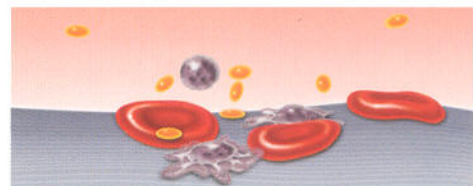
A new biocompatible hydrophilic polymer surface coating

Xcoating™

The BABY-RX oxygenator is treated with Terumo's X Coating, a biopassive polymer surface coating that reduces platelet adhesion and protein denaturation.



X Coating reduces platelet adhesion and minimizes activation.



Non coating increases platelet adhesion, causing platelet denaturation and blood reaction.

Oxygenator

Perfectly Balanced Performance

High flow with very low priming volume

BABY-RX has the lowest priming volume in the industry,*¹ 43mL, and blood flows as high as 1.5L/min. -- a benefit of Terumo's fiber weaving process.

*1: Per manufacturers' specifications, May 2002.

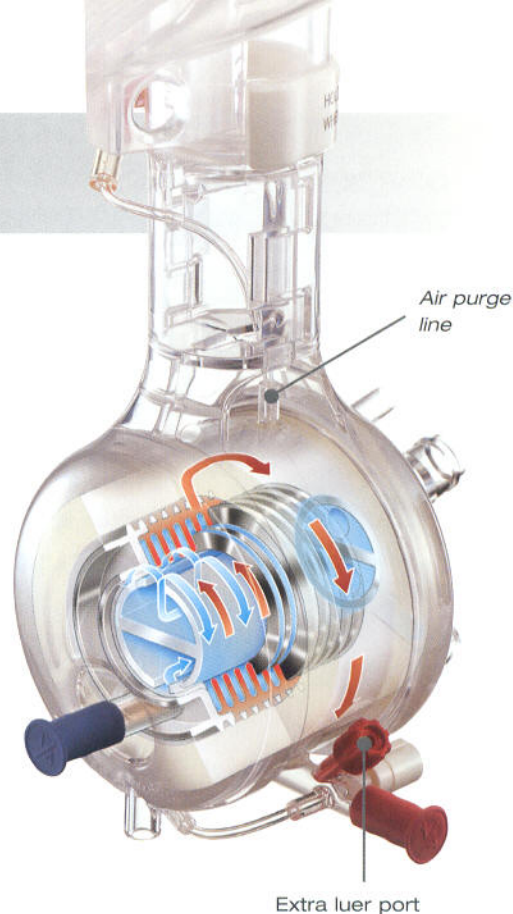


Optimized air handling

Blood flows from top to bottom, reducing the risk of air entering the arterial line. In addition, an integrated air purge line removes air bubbles that may be present in the blood.

Extra luer port

An extra luer port on the arterial outlet can be used for recirculation or blood cardioplegia.



Hardshell Reservoir

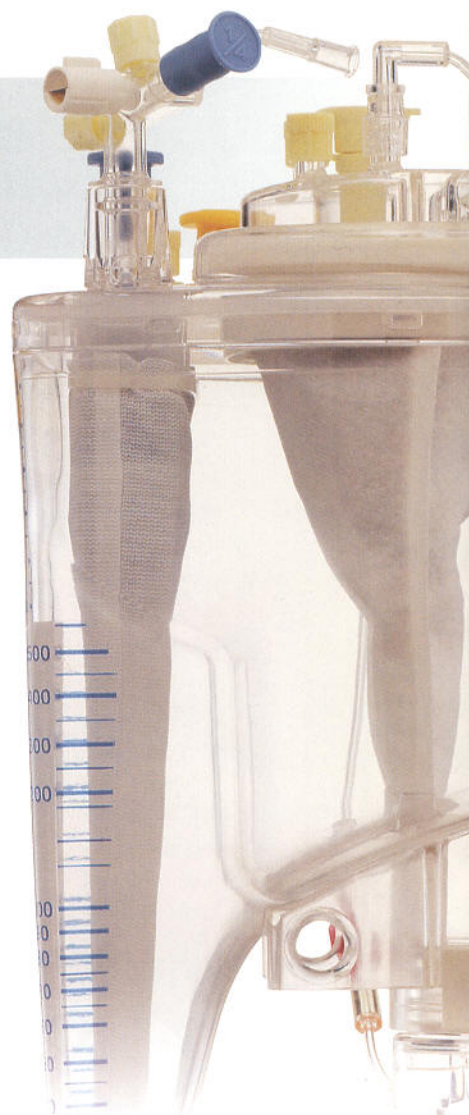


Fast breakthrough time, minimal hold-up volume and stable blood level

The hardshell reservoir has independent venous and cardiotomy filters, a short breakthrough time, and low dynamic priming volume—features that help ensure easy priming and a highly stable blood level, even at minimal volumes.

Optimal visibility

The reservoir is designed for fast, precise identification of reservoir levels especially below 100mL. The level sensor for Terumo Perfusion Systems can be attached on the flat front surface of the reservoir even at low levels.



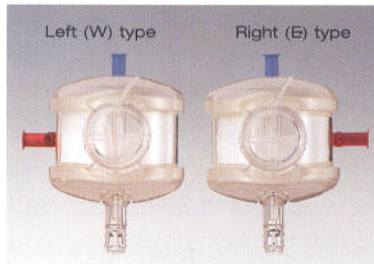
Holder System



Versatility

The holder for the BABY-RX oxygenator has been thoughtfully designed for fast, easy setup and includes a slot to hold the sampling system.

Outlet Port



Versatility

The BABY-RX oxygenator is available with two outlet port configurations to optimize setup and accommodate a variety of circuit configurations.

| Reorder number | Description | Reorder number |
|----------------|--|----------------|
| CX*RX05RW | Oxygenator with Hardshell Reservoir | CX*RX05RE |
| CX*RX05W | Oxygenator without Hardshell Reservoir | CX*RX05E |



Terumo's exclusive hollow fiber

Terumo is the only oxygenator manufacturer that produces its own fiber—one of the key reasons CAPIOX oxygenators have earned such a strong reputation for consistent performance. Using microphase separation technology, manufacturing technicians carefully control every aspect of the process, from raw material to finished product.

Flexibility

Versatility in setup

The reservoir easily accommodates differing requirements to minimize tubing lengths: in addition to a multiposition holder, the oxygenator rotates at the connection ring; the blood inlet port swivels 360°; and the suction/vent ports rotate.



Accessories included

- Recirculation line
- Four 3/16" port adapters
- One 3/8" port adapter
- Integrated sampling system



Specifications

Oxygenator module

| Component | Specifications | | |
|--|--------------------------------|---|------------------------------------|
| Housing | Material | Polycarbonate | |
| Fibers | Material | Microporous polypropylene | |
| | Surface area | Approx. 0.5m ² | |
| Heat exchanger | Material | Stainless steel | |
| | Surface area | Approx. 0.035m ² | |
| Blood flow range | Min. 0.1L/min./ Max. 1.5L/min. | | |
| Reference blood flow (AAMI standard) | 2.5L/min. | | |
| Priming volume (static) | 43mL | | |
| <ul style="list-style-type: none"> • Blood inlet port (from pump) • Blood outlet port • Luer port (for recirculation or blood cardioplegia) • Gas inlet port • Gas outlet port • Water ports | | 1/4" (6.4mm) | |
| | | | 1/4" (6.4mm) |
| | | | One luer lock on blood outlet port |
| | | | 1/4" (6.4mm) |
| | | 5/16" (7.9mm) | |
| | | 1/2" (12.7mm) Hansen quick connect fittings | |
| Maximum pressure | Blood inlet: | 1,000mmHg (133kPa) | |
| | Water inlet: | 2 kgf/cm ² (196kPa) (28.5psi) | |

Hardshell reservoir section

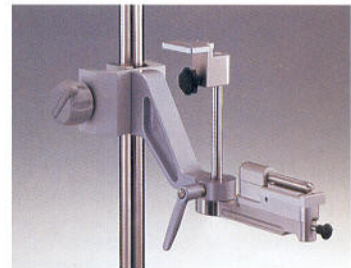
| Component | Specifications | |
|--|--------------------------------|--|
| Housing | Material | Polycarbonate |
| Blood flow range | Min. 0.1L/min./ Max. 1.5L/min. | |
| Blood storage capacity | 1,000mL | |
| Minimum operating volume | 15mL | |
| Venous filter | Material | Polyester screen type Pore size: 47µm |
| Cardiotomy filter | Material | Polyester depth type |
| Defoamer | Material | Polyurethane foam |
| <ul style="list-style-type: none"> • Venous blood inlet port • Blood outlet port (to pump) | | 1/4" (6.4mm) rotatable |
| | | |
| <ul style="list-style-type: none"> • Suction ports • Quick prime port • Vent port • Auxiliary port • Luer ports | | Five 3/16"—1/4" (4.8mm—6.4mm) rotatable |
| | | |
| | | 1/4" (6.4mm) |
| | | 1/4"—3/8" (6.4mm—9.5mm) |
| | | <ul style="list-style-type: none"> • Three filtered luer locks to cardiotomy filter • One non-filtered luer lock • Two luer locks on venous inlet |
| Maximum sustainable negative pressure in reservoir | -150 mmHg (-20.0 kPa) | |

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

Product description

| Reorder number | Description |
|----------------|--|
| CX*RX05RW | Hollow Fiber Oxygenator with Hardshell Reservoir |
| CX*RX05RE | Hollow Fiber Oxygenator with Hardshell Reservoir |
| CX*RX05W | Hollow Fiber Oxygenator |
| CX*RX05E | Hollow Fiber Oxygenator |

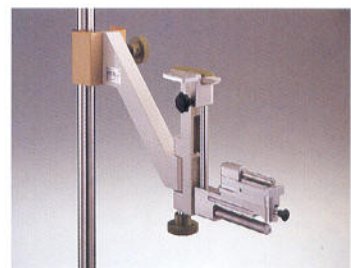
(CX*RX05RW, CX*RX05W, CX*RX05RE and CX*RX05E differ in the positioning of the arterial blood port of the oxygenator.)



Holder system for oxygenator/reservoir system and reservoir module (Reorder number: XX*CXH05R)

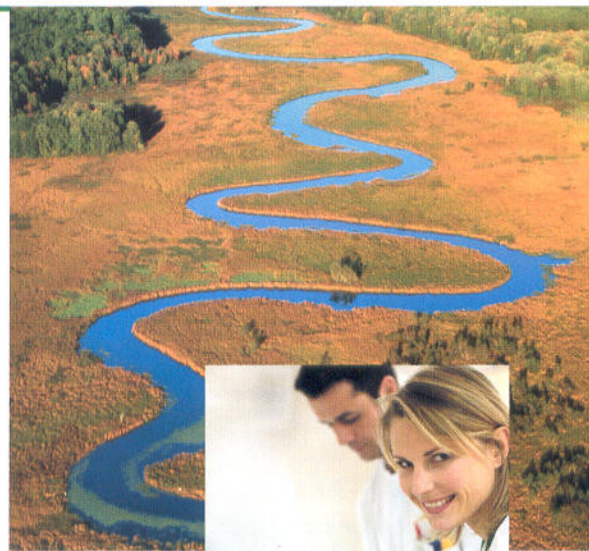


Holder system for oxygenator module (Reorder number: XX*CXH05)



Adapter for SX holder (Reorder number: XX*CXH05AD)

Every day, as healthcare professionals, you are working to ensure life and to contribute to the well-being of your patients. Every day, Terumo Europe provides you with the clinical systems, means and solutions to keep life flowing.



We keep life flowing



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