

CAPIOX[®] FX Family of Oxygenators with Integrated Arterial Filter

Breakthrough technology for added patient safety¹

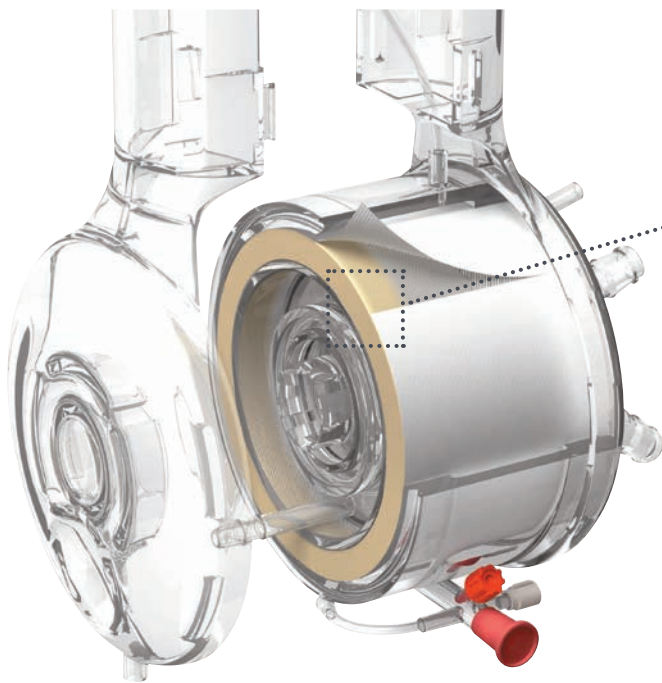


Surrounded by Safety¹

CAPIOX[®] FX Family of Oxygenators

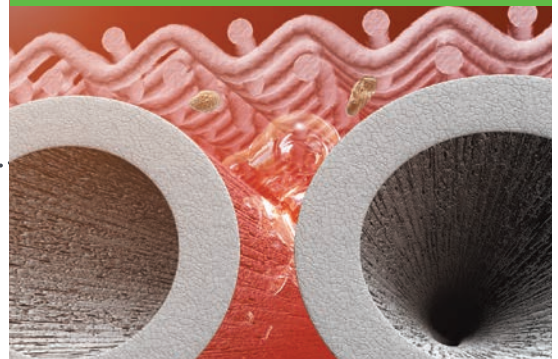
Integrated arterial filter with self-venting technology

A 32 μm screen filter surrounds the fiber layer of the oxygenator. Particulate micro-emboli that may be present in the blood are trapped in the filter mesh while gaseous emboli remain inside the oxygenator and in contact with the hollow fibers. Driven by the pressure difference, gaseous emboli enter the inner lumen of the microporous hollow fiber and are eliminated via the gas outlet.

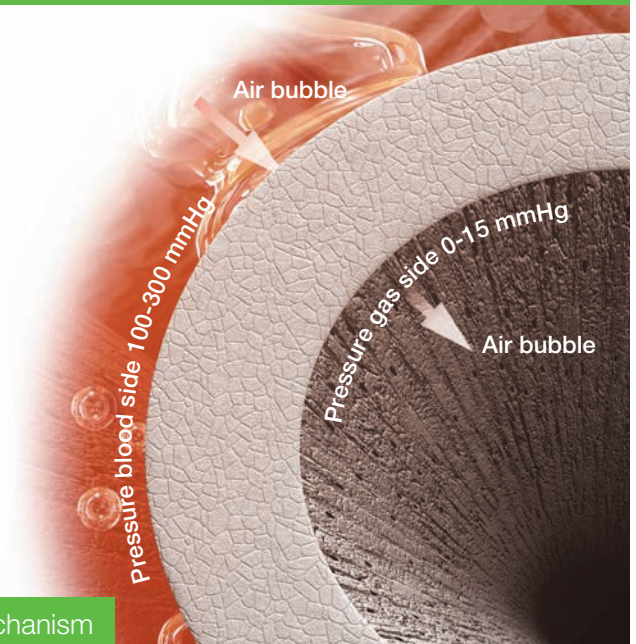


Filter Pore Size **32 μm**

Screen filter surrounds the fiber layer, traps particulate micro-emboli and retains gaseous emboli.



Driven by the pressure difference between the blood side and gas side of the oxygenator, gaseous emboli enter the inner lumen of the microporous hollow fiber and are eliminated via the gas outlet.



Self-venting mechanism



Terumo's own biocompatible amphiphilic polymer surface coating, is a standard feature of all CAPIOX[®] FX oxygenators.

CAPIOX® FX05 Oxygenator

For neonates and infants

Integrated arterial filter

- Filter inside oxygenator housing
- 32 µm pore size
- Self-venting technology

Oxygenator

Proven performance

- Fully integrated arterial filter with self-venting technology
- 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 means 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



Hardshell Reservoir

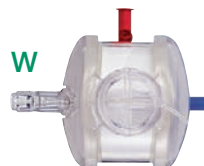
Full featured

- Elongated shape provides stable blood flow path and enhanced² visibility at all levels from all angles
- Rotating venous inlet improves set-up flexibility
- Connecting mount increases flexibility in circuit set-up and oxygenator rotation
- Funnel-shaped cardiotomy filter improves breakthrough and residual volumes

- Reservoir storage capacity: 1000 mL
- Maximum blood flow: 1.5 L/min
- Oxygenator priming volume: 43 mL
- Arterial filter surface area: 130 cm²

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

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



Reference:

1 Gomez D et al. Evaluation of air handling in a new generation neonatal oxygenator with integral arterial filter. 2009; 24-107.

2 Internal testing, data on file.

Choose the blood outlet port configuration that best suits your circuit

CAPIOX® FX 15 Oxygenator

For children, small adults and minimized circuits



Available in two reservoir sizes



- Reservoir storage capacity: 3000 mL
- Maximum blood flow: 4.0 L/min
- Oxygenator priming volume: 144 mL
- Arterial filter surface area: 360 cm²



- Reservoir storage capacity: 4000 mL
- Maximum blood flow: 5.0 L/min
- Oxygenator priming volume: 144 mL
- Arterial filter surface area: 360 cm²

CAPIOX® FX25 Oxygenator

For all adults



- Reservoir storage capacity: 4000 mL
- Maximum blood flow: 7.0 L/min
- Oxygenator priming volume: 260 mL
- Arterial filter surface area: 600 cm²



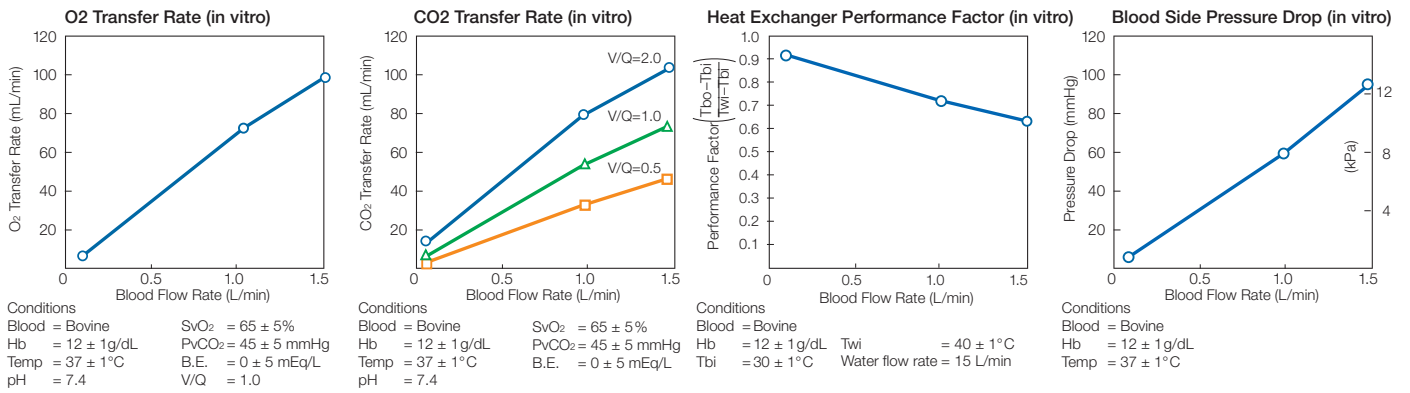
TOTM – an alternative plasticizer

Terumo is ever striving to develop new medical technologies with minimal negative impact to patients and the environment.

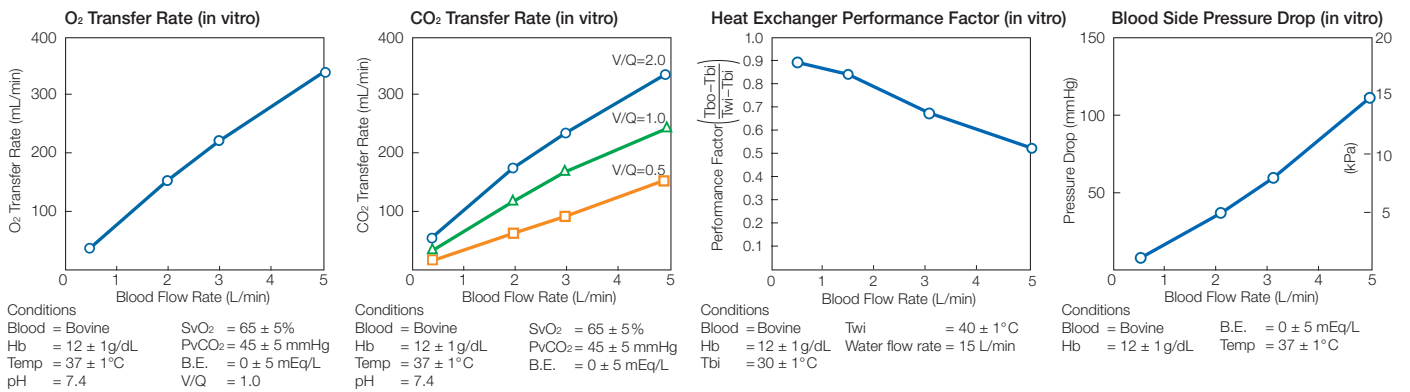
In line with this goal, Terumo provides an alternative plasticizer for the manufacturing of its products. TOTM (trioctyl trimellitate) offers outstanding physical properties (such as flexibility) to the material and low plasticizer elution.

The TERUMO logo, featuring a red swoosh above the word "TERUMO" in green capital letters.

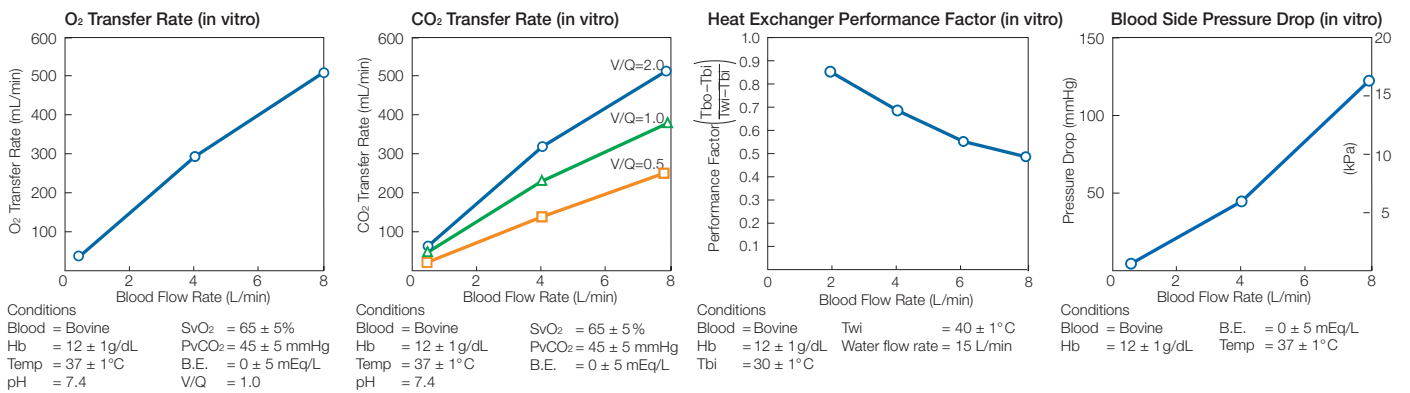
CAPIOX® FX05 Performance Data



CAPIOX® FX15 Performance Data



CAPIOX® FX25 Performance Data



Holder Systems

CAPIOX® FX05 Oxygenator



XX*CXH05R

XX*CXH05

CAPIOX® FX15 and CAPIOX® FX25 Oxygenators



XX*CXH18R

XX*XH032

XX*CXH15

CAPIOX® FX Family of Oxygenators

Specifications

Oxygenator		
Material	Housing	Polycarbonate
	Fibers	Microporous polypropylene
	Heat exchanger	Stainless steel

Oxygenator	FX05	FX15	FX25
Fiber bundle surface area	Approx. 0.5 m ²	Approx. 1.5 m ²	Approx. 2.5 m ²
Heat exchanger surface area	Approx. 0.035 m ²	Approx. 0.14 m ²	Approx. 0.2 m ²
Blood flow range	0.1 – 1.5 L/min	0.5 – 5.0 L/min, 0.5 – 4.0 L/min (with R30)	0.5 – 7.0 L/min
Reference blood flow (AAMI std.)	2.5 L/min	7.0 L/min	N/A
Priming volume (static)	43 mL	144 mL	260 mL
Blood inlet port (from pump)	1/4" (6.4 mm)	3/8" (9.5 mm)	
Blood outlet port	1/4" (6.4 mm)	3/8" (9.5 mm)	
Cardioplegia port	N/A	1/4" (6.4 mm)	
Luer port (for recirc. or blood cardioplegia)	One luer lock on blood outlet port	N/A	
Gas inlet port	1/4" (6.4 mm)		
Gas outlet port	5/16" (7.9 mm)	1/4" (6.4 mm)	
Water ports	1/2" (12.7 mm) Hansen quick-connect fittings		
Maximum pressure Blood inlet	1000 mmHg (133 kPa)		
Maximum pressure Water inlet	2 kgf/cm ² (196 kPa) (28.5 psi)		

Arterial Filter	
Filter material	Polyester screen type
Pore size	32 µm
Surface area	130 cm ² 360 cm ² 600 cm ²

Ordering Information

Catalog #	Description	Unit/Cases
CAPIOX® FX05 Oxygenator		
CX*FX05W	Oxygenator with integrated arterial filter ¹	4
CX*FX05E	Oxygenator with integrated arterial filter ¹	4
CX*FX05RW	Oxygenator with integrated arterial filter/hardshell reservoir ²	4
CX*FX05RE	Oxygenator with integrated arterial filter/hardshell reservoir ²	4
CAPIOX® FX15 Oxygenator		
CX*FX15W	Oxygenator with integrated arterial filter ³	4
CX*FX15E	Oxygenator with integrated arterial filter ³	4
CX*FX15RW30	Oxygenator with integrated arterial filter/hardshell reservoir ⁴	2
CX*FX15RE30	Oxygenator with integrated arterial filter/hardshell reservoir ⁴	2
CX*FX15RW40	Oxygenator with integrated arterial filter/hardshell reservoir	2
CX*FX15RE40	Oxygenator with integrated arterial filter/hardshell reservoir	2
CAPIOX® FX25 Oxygenator		
CX*FX25W	Oxygenator with integrated arterial filter	4
CX*FX25E	Oxygenator with integrated arterial filter	4
CX*FX25RW	Oxygenator with integrated arterial filter/hardshell reservoir	2
CX*FX25RE	Oxygenator with integrated arterial filter/hardshell reservoir	2

Hardshell Reservoir		
Material	Housing	Polycarbonate
	Venous filter	Polyester screen type, Pore size 47 µm
	Cardiotomy filter	Polyester depth type
	Defoamer	Polyurethane foam

Hardshell Reservoir	FX05	FX15 R30 (for FX15)	R40 (for FX15)	FX25
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
Venous flow	N/A	Max. 4.0 L/min	Max. 5.0 L/min	Max. 5.0 L/min
Cardiotomy inlet	N/A	Max. 4.0 L/min	Max. 5.0 L/min	Max. 5.0 L/min
Combined flow	N/A	Max. 4.0 L/min	Max. 5.0 L/min	Max. 7.0 L/min
Blood storage capacity	1000 mL	3000 mL	4000 mL	4000 mL
Min. operating volume	15 mL	70 mL	200 mL	200 mL
Venous blood inlet port	1/4" (6.4 mm) rotatable	3/8" (9.5 mm) rotatable	1/2" (12.7 mm) rotatable	1/2" (12.7 mm) rotatable
Blood outlet port (to pump)	1/4" (6.4 mm)	3/8" (9.5 mm)		
Suction ports	Five 3/16" – 1/4" (4.8 mm – 6.4 mm) rotatable	Six 1/4" (6.4 mm)		
Vertical port (to CR filter)	n.a.	3/8" (9.5 mm)		
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)			
Luer ports	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)			

Catalog #	Description	Unit/Cases
Holders for CAPIOX® FX Oxygenators		
XX*CXH05	Holder for FX05 oxygenator	1
XX*CXH05R	Holder for FX05 oxygenator with hardshell reservoir	1
XX*CXH05AD	FX05 adapter for SX holder	1
801139	Holder for FX15/25 oxygenator with hardshell reservoir (short arm)	1
801804	Holder for FX15/25 oxygenator with hardshell reservoir (long arm)	1
XX*CXH15	Holder for FX15/25 oxygenator	1
XX*CXH25F	Holder for FX15/25 oxygenator when separated from reservoir	1
XX*CXH18R	Holder for FX15/25 oxygenator with hardshell reservoir	1
XX*XH032	Holder for FX15/25 oxygenator with hardshell reservoir, short arm	1

- 1 Contains 2 adapters 3/16" – 1/4" and a recirculation line
 2 Contains 4 adapters 3/16" – 1/4", 1 adapter 1/4" – 3/8" and a recirculation line
 3 Contains 2 adapters 1/4" – 3/8"
 4 Contains 4 adapters 1/4" – 3/8"



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