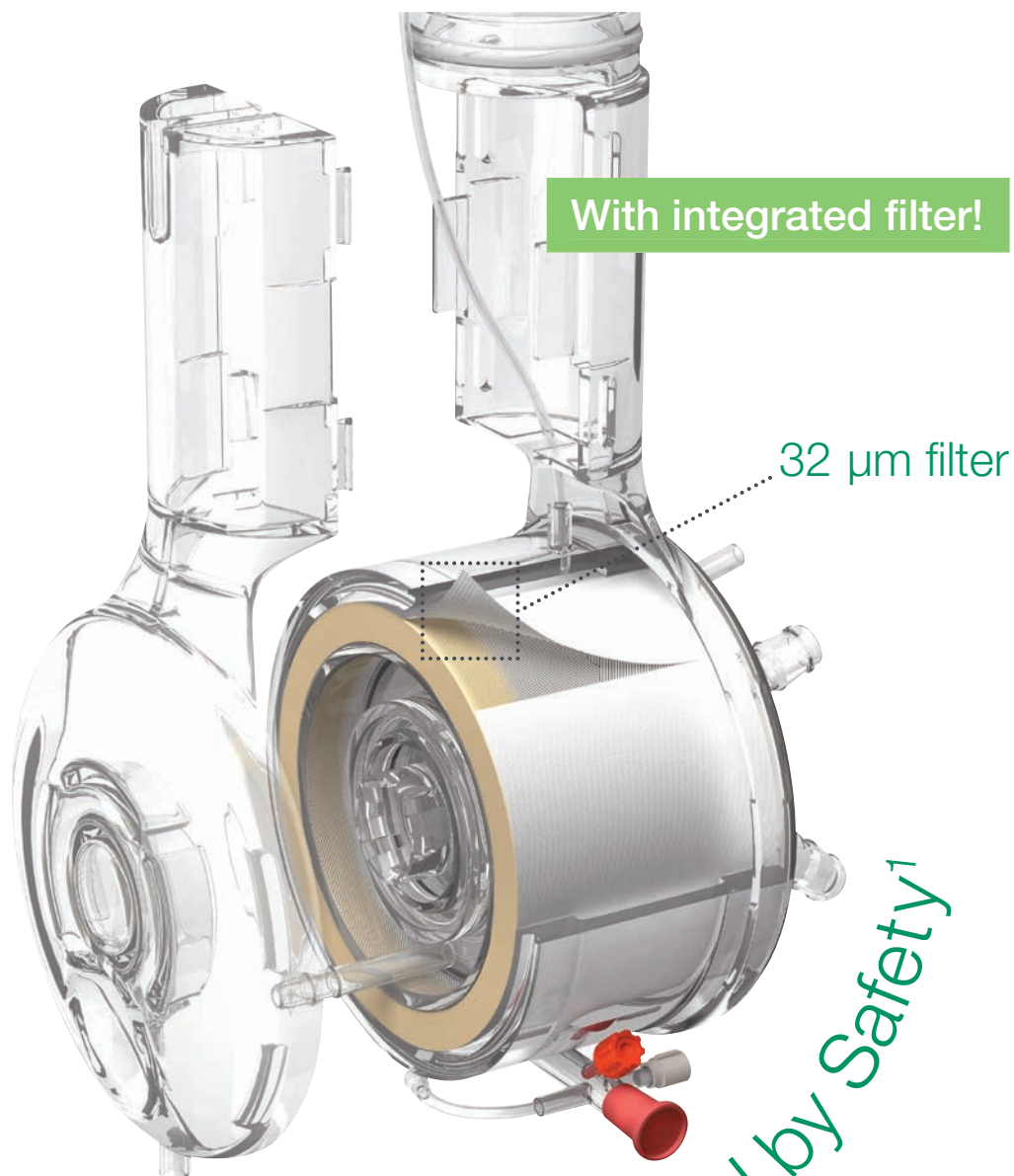


CAPIOX[®] FX05 Oxygenator

Pediatric oxygenator with integrated arterial filter



Surrounded by Safety¹

CAPIOX[®] FX05 Oxygenator

The world's first pediatric oxygenator with integrated arterial filter

- Added safety¹ without additional prime volume¹
- Reduced surface area and lower pressure drop*
- Superb gas exchange
- Self-venting technology for easy set up and priming

* Compared to CAPIOX[®] RX05 Oxygenator and CAPIOX[®] AF02 arterial filter

Oxygenator

Proven performance

The CAPIOX[®] Baby-FX[™] Oxygenator combines the design and performance characteristics of the well established CAPIOX[®] Baby-RX[™] Oxygenator with the added safety¹ of an integrated arterial filter.

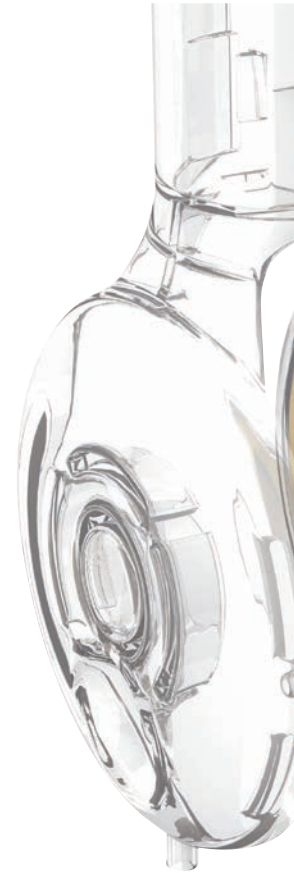
High flow with very low priming volume

The CAPIOX[®] FX05 Oxygenator has a priming volume of 43 mL and a maximum blood flow of 1,5 L/min making it optimal for neonates and infants. The priming volume is smaller than any combination of oxygenator and separate arterial filter on the market today².

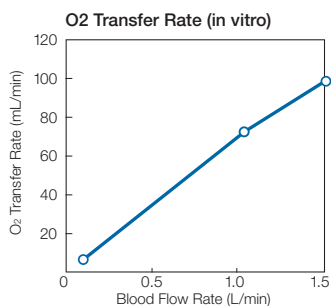
Hardshell Reservoir

Proven quality, optimal visibility

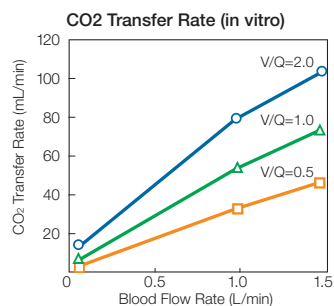
- Stable blood level, even at minimal volumes
- High-visibility scale level
- Rotating connection ring for easy set up



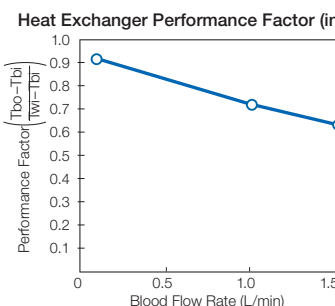
Performance Data



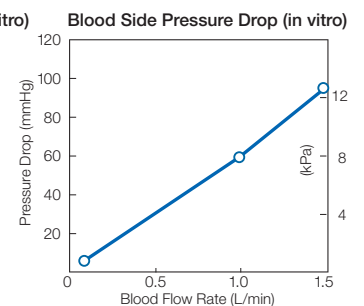
Conditions
 Blood = Bovine
 Hb = 12 ± 1g/dL
 Temp = 37 ± 1°C
 pH = 7.4
 SvO₂ = 65 ± 5%
 PvCO₂ = 45 ± 5 mmHg
 B.E. = 0 ± 5 mEq/L
 V/Q = 1.0



Conditions
 Blood = Bovine
 Hb = 12 ± 1g/dL
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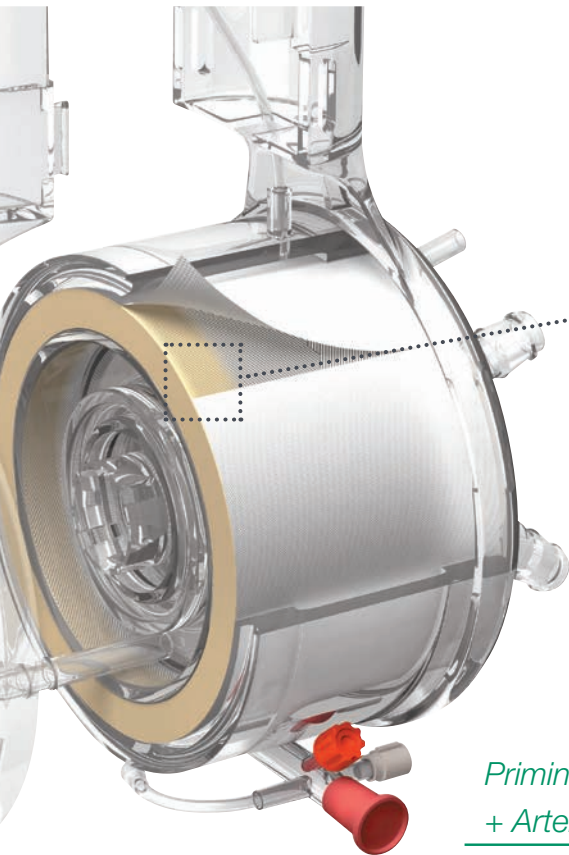
Conditions
 Blood = Bovine
 Hb = 12 ± 1g/dL
 Tbi = 30 ± 1°C
 Twi = 40 ± 1°C
 Water flow rate = 15 L/min



Conditions
 Blood = Bovine
 Hb = 12 ± 1g/dL
 Temp = 37 ± 1°C

Integrated arterial filter with self-venting technology

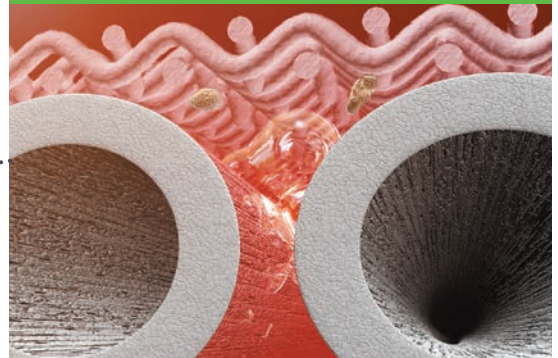
A 32 μm screen filter surrounds the fiber layer of the oxygenator. Particulate micro-emboli that may be present in the blood are trapped in the filter mesh while gaseous emboli remain inside the oxygenator and in contact with the hollow fibers. Driven by the pressure difference, gaseous emboli enter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



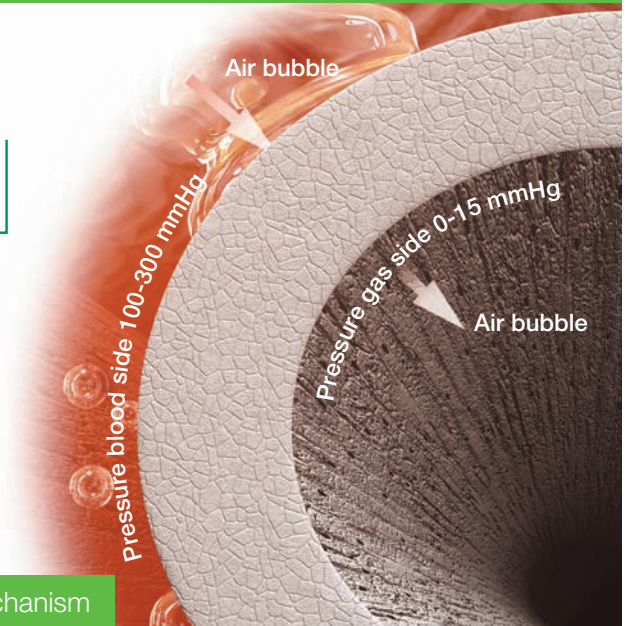
Priming Volume Oxygenator
+ Arterial Filter **43 mL**

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

Xcoating™

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

TERUMO

Specifications

Oxygenator with integrated arterial filter		
Oxygenator		
Housing	Material	Polycarbonate
Fiber	Material	Microporous Polypropylene
	Surface area	Approx. 0.5 m ²
Heat exchanger	Material	Stainless steel
	Surface area	Approx. 0.035 m ²
Maximum blood flow rate		1.5 L/min
Minimum blood flow rate		0.1 L/min
Reference blood flow (AAMI standard)		2.5 L/min
Priming volume (Static)		43 mL
Blood inlet port (from pump)		1/4" (6.4 mm)
Blood outlet port		1/4" (6.4 mm)
Luer port (for recirculation or blood cardioplegia)		One luer lock on blood outlet port
Gas inlet port		1/4" (6.4 mm)
Gas outlet port		5/16" (7.9 mm)
Water ports		1/2" (12.7 mm) Hansen quick connect fittings
Maximum pressure	Blood inlet	1000 mmHg (133 kPa)
	Water inlet	2kgf/cm ² (196 kPa) (28.5 psi)
Arterial Filter		
	Material	Polyester screen type
	Pore size	32 µm
	Surface area	130 cm ²
Note: The oxygenator module of the oxygenator/hardshell reservoir system is rotatable and detachable		
Hardshell Reservoir		
Housing	Material	Polycarbonate
Maximum blood flow rate		1.5 L/min
Minimum blood flow rate		0.1 L/min
Blood storage capacity		1000 mL
Minimum operating volume		15 mL
Venous filter	Material	Polyester screen type
	Pore size	47 µm
Cardiotomy filter	Material	Polyester depth type
Defoaming part	Material	Polyurethane foam
Venous blood inlet port		1/4" (6.4 mm) rotatable
Blood outlet port (to pump)		1/4" (6.4 mm)
Suction ports (five)		3/16" – 1/4" (4.8 mm – 6.4 mm) rotatable
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)

Ordering Information

Catalog #	Description	Unit/Cases
CAPIOX® FX05 Oxygenator		
CX*FX05RW	Oxygenator with integrated arterial filter ¹ and hardshell reservoir	4
CX*FX05RE	Oxygenator with integrated arterial filter ² and hardshell reservoir	4
CX*FX05W	Oxygenator with integrated arterial filter ¹	4
CX*FX05E	Oxygenator with integrated arterial filter ²	4
1 Oxygenator blood inlet on right when blood outlet is facing away from user		
2 Oxygenator blood inlet on left when blood outlet is facing away from user		
Accessories for CAPIOX® FX05 Oxygenator		
XX*CXH05R	Holder for FX05 oxygenator with hardshell reservoir	1
XX*CXH05	Holder for FX05 oxygenator	1
XX*CXH05AD	FX05 Adapter for SX holder	1



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CAPIOX® FX05 Oxygenator

Pediatric oxygenator with
integrated arterial filter



XX*CXH05R



XX*CXH05



XX*CXH05AD

References:

- Gomez D et al. Evaluation of air handling in a new generation neonatal oxygenator with integral arterial filter. 2009; 24-107.
- Based on market research in July 2018

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