

CAPIOX® SX Family of Oxygenators

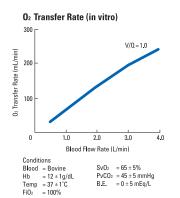
High-performance, Hollow Fiber Oxygenators

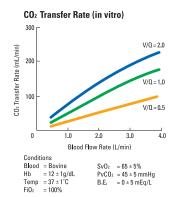


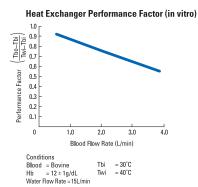


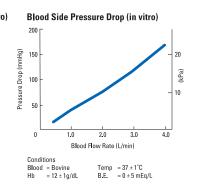
Performance Data

CAPIOX® SX10 Hollow Fiber Oxygenator

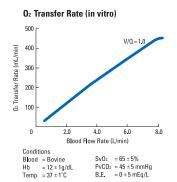


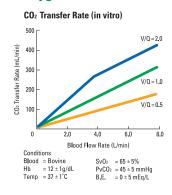


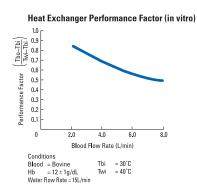


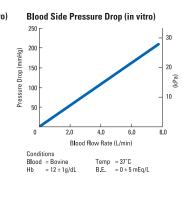


CAPIOX® SX18 Hollow Fiber Oxygenator

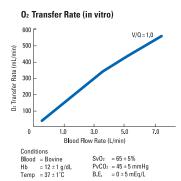


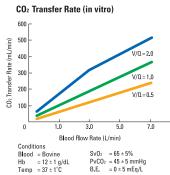


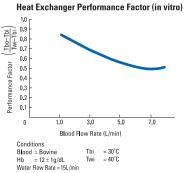


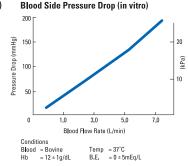


CAPIOX® SX25 Hollow Fiber Oxygenator









Holder Systems







Catalog # XX*XH032

CAPIOX® SX Family of Oxygenators

Terumo's line of high-performance CAPIOX® SX oxygenators are available in multiple sizes to accommodate every patient. Able to meet the requirements of small to large patients, this family of oxygenators offers low priming options and high gas exchange. Proven performance features, including Terumo's exclusive biopassive surface coating, make these highly efficient oxygenators the right choice for the perfusionist and the patient.

Oxygenator

- Terumo's exclusive hollow fiber technology is used in every CAPIOX® SX oxygenator.
- Unique fiber bundle design creates a uniform blood flow, resulting in consistently high gas exchange.
- Superior quality control assures consistent oxygenator performance.



Xcoating™ Surface Coating

- This amphiphilic surface coating has both hydrophobic and hydrophilic properties which reduce platelet adhesion and minimize platelet activation.
- Non-heparin based biopassive polymer does not react with blood components.
- Adheres to all surfaces and has no contraindications for patient size.

Reservoir

- Separate cardiotomy and venous filters improve handling of venous blood and minimize defoamer contact.
- Flat front enhances visibility and allows for easy mounting of level sensor pads.
- Tapered design aids low level volume assessment.
- Volume scales are easily visible on three sides, even at low volume levels.
- Short breakthrough time permits quick and easy priming.
- Integrated positive pressure relief for vacuum assisted venous drainage (SX18/SX25).*
- Detachable hardshell reservoir for additional setup options.



- Efficient heat exchange produced by hundreds of stainless steel pipes facilitates the uniform circulation of water through the heat exchanger compartment.
- Designed specifically to reduce cooling and rewarming times.
- Non-compliant heat exchanger design does not expand and contract, regardless of temperature and pressure changes.







Priming volume of 135 mL

- Blood flow rate of up to 4.0 L/min
- Reservoir capacity of 3,000 mL;
 70 mL minimum operating level



Priming volume of 270 mL

range of patient sizes.

- Large blood flow rate of up to 7.0 L/min
- Large reservoir capacity of 4,000 mL;
 200 mL minimum operating level



Clinical Education and Support

Terumo Cardiovascular Group is a global leader in clinical education and support. Through programs like Terumo Academy and Optimizing Cardiac Surgery,® Terumo helps to ensure that the highest standards of clinical care are delivered to patients worldwide.

For information on training and education in your region, contact your local Terumo representative.





CAPIOX® SX25 Oxygenator

Enhanced gas exchange performance for larger patients.

- Priming volume of 340 mL
- Large blood flow rate of up to 7.0 L/min
- Large reservoir capacity of 4,000 mL; 200 mL minimum operating level

CAPIOX® SX Family of Oxygenators

Specifications

Oxygenator and Heat Exchanger

MATERIAL	Housing	Polycarbonate		
	Oxygenator fibers	Microporous polypropylene Stainless steel		
	Heat exchanger			
OXYGENATOR	SX10	SX18	SX25	
Fiber bundle surface area	Approx. 1.0 m ²	Approx. 1.8 m ²	Approx. 2.5 m ²	
Heat exchanger surface area	Approx. 0.13 m ²	Approx. 0.22 m ²	Approx. 0.22 m ²	
Blood flow range	0.5 - 4.0 L/min	0.5 - 7.0 L/min	0.5 - 7.0 L/min	
Priming volume (static)	135 mL	270 mL	340 mL	
Blood inlet port (from pump)	3/8" (9.5 mm) (1/4" adapter)	3/8" (9.5 mm)	3/8" (9.5 mm)	
Blood outlet port	3/8" (9.5 mm) (1/4" adapter)	3/8" (9.5 mm)	3/8" (9.5 mm)	
Cardioplegia port	1/4" (6.4 mm)			
Gas inlet port	1/4" (6.4 mm)			
Gas outlet port	1/4" (6.4 mm) (base: 3/8" with gas vent)			
Water ports	1/2" (12.7 mm) Hansen quick connect fitting			
Maximum pressure blood inlet	1,000 mmHg (133 kPa)			

Ordering Information

CATALOG#	DESCRIPTION	UNITS/CASE
CX*SX10R [†] CX*SX10RX [†]	CAPIOX SX10 Oxygenator Hollow fiber oxygenator with hardshell reservoir Hollow fiber oxygenator with hardshell reservoir with Xcoating™ surface coating	4
CX*SX18R CX*SX18RX	CAPIOX SX18 Oxygenator Hollow fiber oxygenator with hardshell reservoir Hollow fiber oxygenator with hardshell reservoir with Xcoating™ surface coating	4
CX*SX25R CX*SX25RX	CAPIOX SX25 Oxygenator Hollow fiber oxygenator with hardshell reservoir Hollow fiber oxygenator with hardshell reservoir with Xcoating™ surface coating	4
XX*CXH18 [‡] XX*CXH18R XX*XH032	Holders for CAPIOX SX Oxygenator Holder for SX oxygenator Holder for SX/RX/FX oxygenator with hardshell reservoir (e Holder for hardshell reservoir, short arm (except U.S.)	1 except U.S.) 1
1CX*BP021 1CX*BP022	Accessories for CAPIOX SX Oxygenators Blue thermistor wire Red thermistor wire	10 10

Hardshell Reservoir

MATERIAL	Housing	Polycarbonate		
	Venous filter	Polyester screen type, pore size 47 µm Polyester depth type Polyurethane foam		
	Cardiotomy filter			
	Defoamer			
OXYGENATOR	SX10	SX18	SX25	
Blood flow range				
Venous flow	0.5 - 4.0 L/min	0.5 - 7.0 L/min	0.5 - 7.0 L/min	
Cardiotomy inlet	Max. 4.0 L/min	Max. 5.0 L/min	Max. 5.0 L/min	
Combined flow	Max. 4.0 L/min	Max. 7.0 L/min	Max. 7.0 L/min	
Blood storage capacity	3,000 mL	4,000 mL	4,000 mL	
Minimum operating volume	70 mL	200 mL	200 mL	
Venous blood inlet port	3/8" (9.5 mm) Rotatable (1/4" adapter)	1/2" (12.7 mm) Rotatable	1/2" (12.7 mm) Rotatable	
Blood outlet port (to pump)	3/8" (9.5 mm) Rotatable (1/4" adapter)	3/8" (9.5 mm)	3/8" (9.5 mm)	
Suction ports	Six 1/4" (6.4 mm)			
Vertical port to CR filter	3/8" (9.5 mm)			
Quick prime port	1/4" (6.4 mm)	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	Four filtered luer ports to cardiotomy filter One non-filtered luer port Two luer ports on venous inlet			
Maximum sustainable negative pressure	-150 mmHg (-20 kPa)			
Positive pressure relief valve	N/A	0 - 8 mmHg (1.1 kPa)*	0 - 8 mmHg (1.1 kPa)*	

The photographed products featured throughout this brochure were manufactured in Terumo Cardiovascular Group's Elkton, Maryland, and Ashitaka, Japan, factories. Depending on the factory, CAPIOX® SX oxygenators will exhibit slight physical design differences, including cap and label colors and shapes, method of positive pressure relief valve integration, venous inlet sampling port location, and CR filter material.

- † Not available in Europe and the U.S.
- ‡ Not available in Europe. Replaced with catalog number XX*CXH25F.
- * Only for products manufactured in Elkton, Maryland.

TERUMO

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