

CAPIOX® SX Family of Oxygenators

High-performance, Hollow Fiber Oxygenators





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.



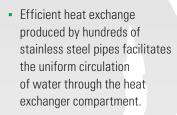
Xcoating™ Surface Coating

- Available on the SX18 and SX25, 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.







- 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
- 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.





Optimizing Cardiac Surgery®

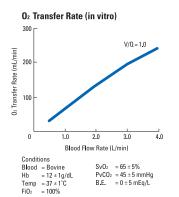
CAPIOX® SX25 Oxygenator

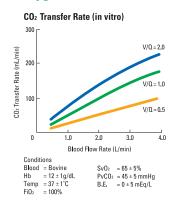
Enhanced gas exchange performance for larger patients.

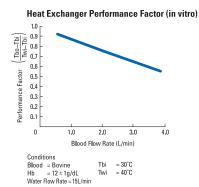
- Priming volume of 340 mL
- Large blood flow rate of up to 7.0 L/min
- Large reservoir capacity of 4,000 mL; 200 mL minimum operating level

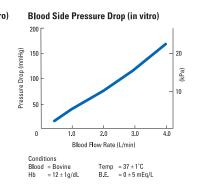
Performance Data

CAPIOX® SX10 Hollow Fiber Oxygenator

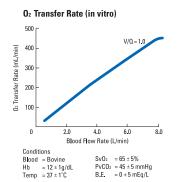


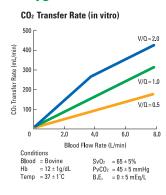


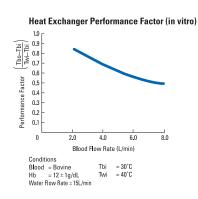


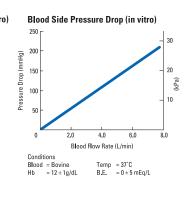


CAPIOX® SX18 Hollow Fiber Oxygenator

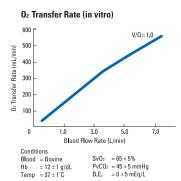


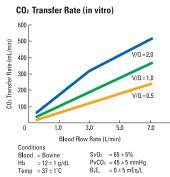


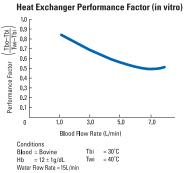


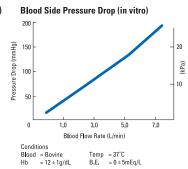


CAPIOX® SX25 Hollow Fiber Oxygenator









Holder Systems







Catalog # XX*CXH18R Catalog # XX*XH032

CAPIOX® SX Family of Oxygenators

Specifications

Oxygenator and Heat Exchanger

MATERIAL	Housing	Polycarbonate		
	Oxygenator fibers	Microporous polypropylene		
	Heat exchanger	Stainless steel		
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)			
Maximum pressure water inlet	42 psi (3ATM) (289 kPa)			

Ordering Information

CATALOG#	DESCRIPTION UNITS/CA	ιSΕ
CX*SX10R [†]	CAPIOX SX10 Oxygenator Hollow fiber oxygenator with hardshell reservoir	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 (except U.S.) Holder for hardshell reservoir, short arm (except U.S.)	1 1 1
CX*BP021 CX*BP022	Accessories for CAPIOX SX Oxygenators Blue thermistor wire Red thermistor wire	10 10

[†]Not available in Europe and the U.S.

*Not available in Europe. Replaced with catalog # XX*CXH25F.

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)			
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)*	

^{*}Only for products manufactured in Elkton, Maryland.

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.



For information on Terumo Cardiovascular Group products:

Terumo Cardiovascular Group

6200 Jackson Road Ann Arbor, MI 48103-9300

Tel: +1.734.663.4145 Fax: +1.734.663.7981 www.terumo-cvgroup.com

Terumo Corporation

44-1, 2-chome, Hatagaya Shibuya-Ku, Tokyo 151-0072 Japan Tel: +81.3.3374.8111

Fax: +81.3.3374.8399 www.terumo.co.ip

Terumo Europe N.V.

Authorized EC Representative Interleuvenlaan 40, 3001 Leuven Belgium Tel: +32.16.38.12.11 Fax: +32.16.40.02.49

www.terumo-europe.com Terumo Europe N.V. Cardiovascular Division

Ludwig-Erhard-Strasse 6 65760 Eschborn Germany Tel: +49.6196.8023.0 Fax: +49.6196.8023.555

Terumo Latin America Corporation

8750 NW 36th Street, Suite 600 Miami, FL 33178 USA Tel: +1.305.477.4822

Fax: +1.305.477.4872

Terumo Corporation Dubai Branch

Al Masraf Tower, 22nd Floor P.O. Box 20291, Dubai UAE

Tel: +971.4.2212220 Fax: +971.4.2213330

Terumo India Pvt. Ltd.

Unit No. 1601 & 1602 Tower B 16th Floor, Unitech Cyber Park Sector-39 Gurgaon, Haryana 122001 India Tel: +91.124.4718700 Fax: +91.124.4718718

Terumo Asia Holdings Pte. Ltd.

300 Beach Road #33-03 The Concourse 199555 Singapore Tel: +65.6.295.1792 Fax: +65.6.294.2329