

# Oxyprime ECMO

with BRCoating®



 **BRAILE**  
LIFE-SAVING TECHNOLOGIES

**CE**  
2797

The Oxyprime ECMO Membrane Oxygenator consists of integrated gas exchange and heat exchange chambers, indicated for long-term extracorporeal support procedures.

The gas exchanger contains polymethylpentene (PMP) hollow fibers with a highly porous structure, providing efficient oxygen (O<sub>2</sub>) transfer and carbon dioxide (CO<sub>2</sub>) removal. The heat exchanger contains non-porous polyester fibers with high thermal transfer capacity, ensuring effective temperature control while maintaining separation between blood and water.

All the Oxygenator surfaces in contact with blood are treated with the biocompatible coating, named BRCoating

## Indication

The Membrane Oxygenator Oxyprime ECMO Adult is indicated for the extracorporeal membrane oxygenation (ECMO) technique in the extracorporeal life support (ECLS) procedure in patients with cardiac and/or respiratory failure. The Membrane Oxygenator Oxyprime ECMO Adult is for use with patients when required blood flow rate (cardiac output) will not exceed 7L/min. This device shall only be used by properly trained and qualified personnel.



Material	
Housing/connector material	Polycarbonate
Protective covers	Polyethylene
Coating	BRCOATING
Performance	
Minimum / maximum blood flow rate	1.0 / 7.0 L/min
Blood inlet maximum pressure	100 kPa (760 mmHg)
Priming volume (static)	270ml
Minimum / Maximum operational volume	270 / 305.7 ml
Residual blood volume	112.9 ml
Air handling capability	82 ± 12%
Gas Exchange	
Fiber Material	Polymethylpentene
Surface Area	2.0 m <sup>2</sup>
Gas flow: blood flow ratio	0.5:1 - 1:1 - 2:1
Gas minimum / maximum flow rates	0.5 / 14 (L/min)
Gas maximum pressure	50PSI (3.4 bar)
Heat Exchange	
Fiber material	Polyester
Surface Area	0.40 m <sup>2</sup>
Water Maximum temperature	42°C
Water maximum pressure	32 PSI (1660 mmHg)

Connectors	
Blood inlet	3/8" (9.5 mm)
Blood outlet	3/8" (9.5 mm)
Direction: Right Side	
Gas inlet	1/4" (6.4 mm)
Water connector	1/2" (12.7 mm)
	Hansen quick connect fittings
Temperature connector	YSI
Arterial Sample connector	Luer lock
Air Removal connector	Luer lock

## Product covered with biocompatible BRCoating

A solution made of recombinant albumin which covers the product's inner surface, reducing its interaction with blood.

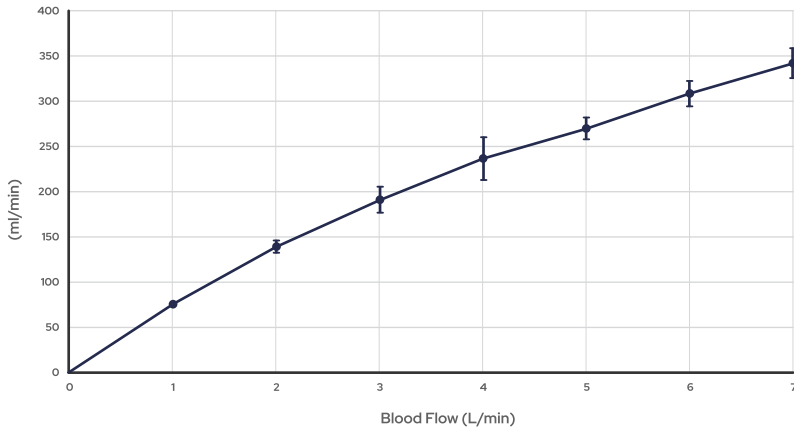


Code	Description	Coating
617320	Membrane Oxygenator Oxyprime ECMO Adult	BRCoating

# Taking care of people!

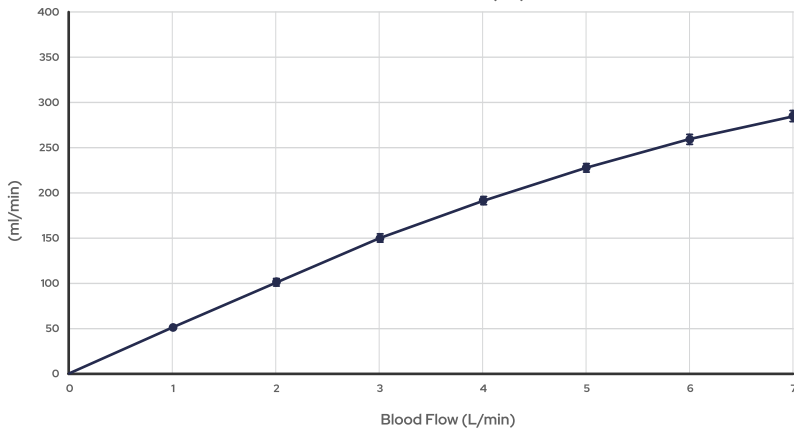


### Oxygen Transfer



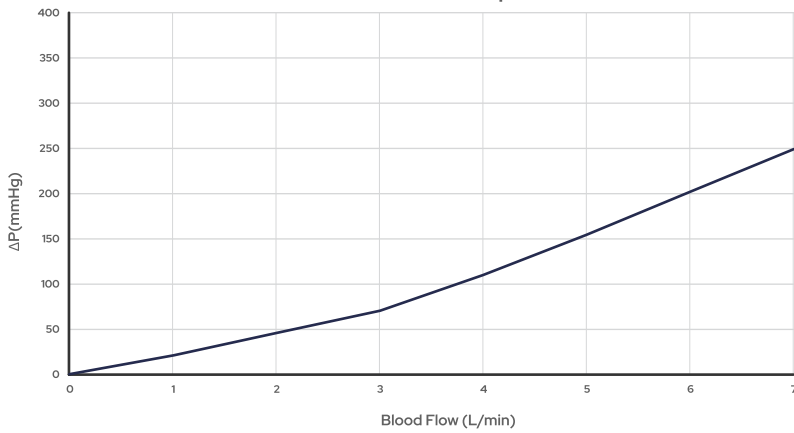
Conditions: Bovine blood |  $H_{(b)}$  =  $12 \pm 1$  g/dl | Temp =  $37 \pm 1^\circ\text{C}$  | pH = 7.4 | Flow Rate  $O_2$ : Blood - 1:1 |  $S_{iO_2}$  =  $65 \pm 5\%$  |  $P_{iCO_2}$  =  $45 \pm 5$  mmHg | B.E. =  $0 \pm 5$  mEq/L |  $V/Q = 1.0$

### CO<sub>2</sub> Removal (1:1)



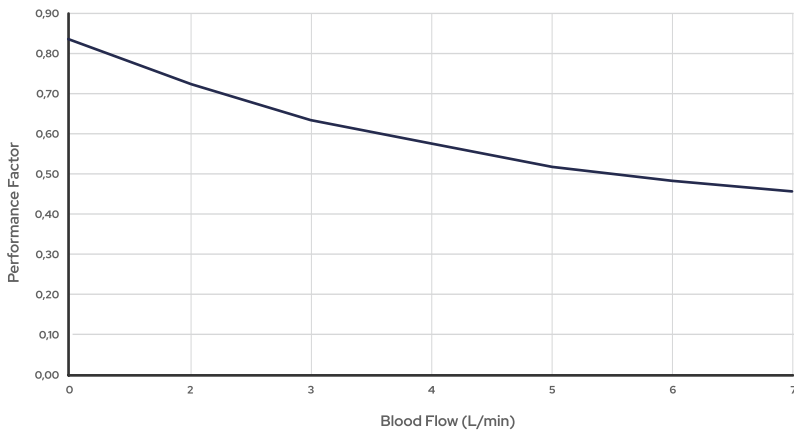
Conditions: Bovine blood |  $H_{(b)}$  =  $12 \pm 1$  g/dl | Temp =  $37 \pm 1^\circ\text{C}$  | pH = 7.4 | Flow Rate  $O_2$ : Blood - 1:1 |  $S_{iO_2}$  =  $65 \pm 5\%$  |  $P_{iCO_2}$  =  $45 \pm 5$  mmHg | B.E. =  $0 \pm 5$  mEq/L |  $V/Q = 1.0$

### Pressure Drop



Conditions: Bovine blood |  $H_{(b)}$  =  $12 \pm 1$  g/dl | Temp =  $37 \pm 1^\circ\text{C}$  | B.E. =  $0 \pm 5$  mEq/L

### Heat Transfer Performance Factor



Conditions: Bovine blood |  $H_{(b)}$  =  $12 \pm 1$  g/dl |  $T_{(b)}$  =  $30 \pm 1^\circ\text{C}$  |  $T_{(w)}$  =  $30 \pm 1^\circ\text{C}$  | Water Flow Rate = 15L/min

Follow us on social media:

 /brailebiomedica

 @brailebiomedica



**Braile Biomédica Indústria, Comércio e Representações Ltda.**

Av. Pres. Juscelino K. de Oliveira, 1505 | Jardim Tarraf I

CEP 15091-450 | São José do Rio Preto - SP | Brasil

CNPJ: 52.828.936/0001-09 | Anvisa no. 10159030111

Technical responsible: Vlademir D. A. Ramirez - CRF-SP 09010