

CARDIOPULMONARY



DESIGNED TO
OPTIMIZE GME
REDUCTION IN
PAEDIATRIC
PATIENTS

TRILY
PEDIATRIC



EUROSETS
EVERY LIFE MATTERS



THE SOLUTION TO OPTIMIZE GME (Gas Micro Emboli) REDUCTION IN PAEDIATRIC PATIENTS

Thanks to its optimized flow dynamics, Trilly Pediatric Oxygenator provides outstanding performance from 0.5 lpm to 3.5 lpm with a priming volume of only 130 ml.

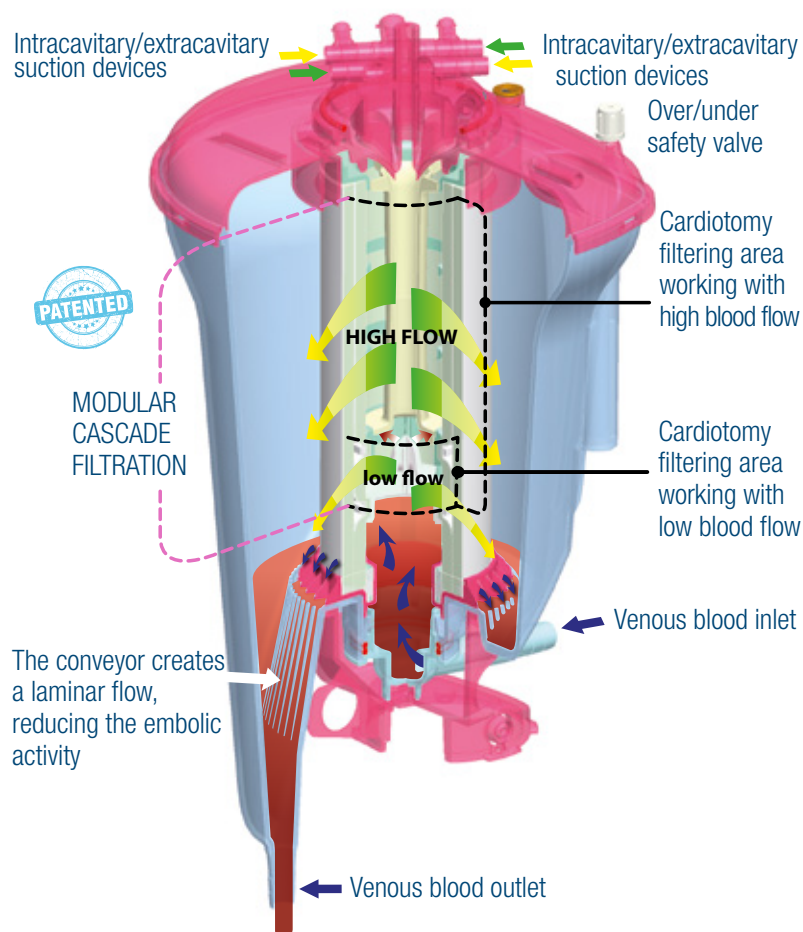
OXYGENATOR MODULE WITH PATENTED CASCADE ARTERIAL FILTER

The patented cascade arterial filter, composed of 2 filtering layers, 80µm+38µm ensures superior reduction of GME¹.

Trilly AF Pediatric is specifically designed to optimally combine gas transfer performance² with a low priming volume² a low pressure drop and to minimize the creation of GME⁴⁻⁵ thanks to:

- a unique filtration technology designed to collect blood coming from intracavitary and extracavitary suction devices;
- integrated arterial filter with self venting technology (Fig. A)

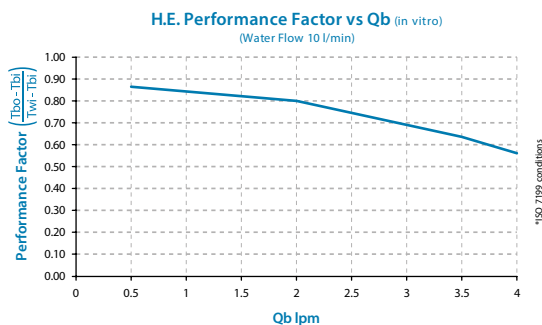
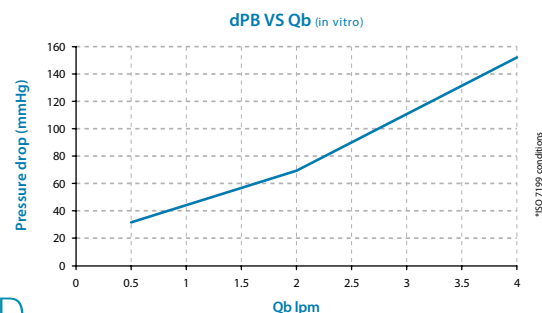
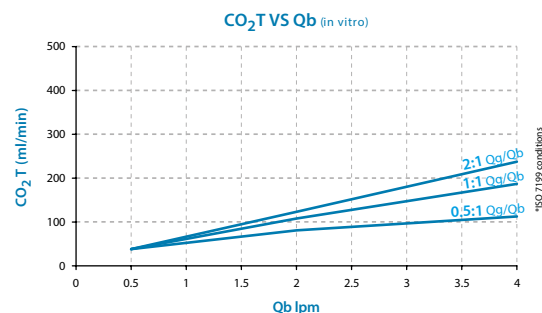
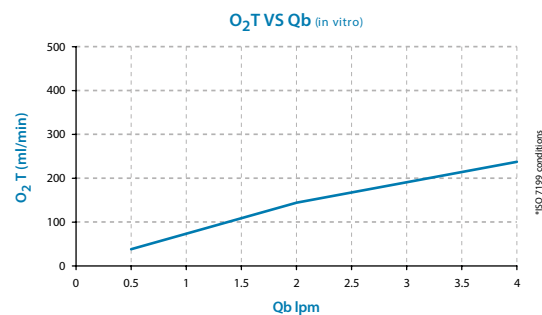
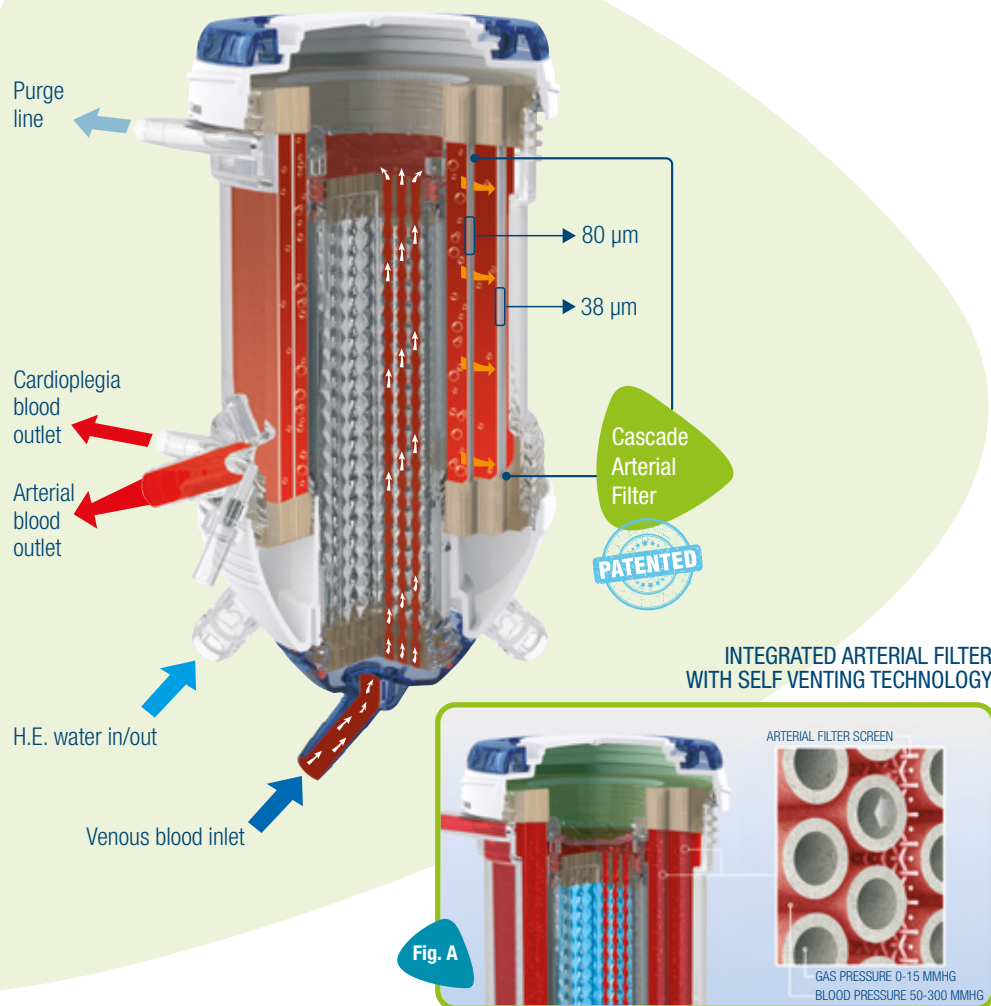
TRILLY AF PEDIATRIC OXYGENATOR ENSURES OPTIMAL ERGONOMIC DESIGN FOR PERFUSION COMFORT.



CARDIOTOMY VENOUS RESERVOIR

TECHNICAL FEATURES

Capacity:	2500 ml
Venous Reservoir Filtering Mesh:	80 µm
Cardiotomy Filtering Mesh:	40 µm
Minimum operating level:	100 ml (@ 3.5 l/min) 50 ml (@ 2.0 l/min) 30 ml (@ 0.5 l/min)
Vacuum ready: equipped with over/under safety valve	
Connectors:	6 x 1/4" 1 x 3/8" 2 x Luer Lock 2 x POS Lock-Luer
Unfiltered	1 x Luer Lock



PAEDIATRIC OXYGENATOR MODULE WITH INTEGRATED CASCADE ARTERIAL FILTER

TECHNICAL CHARACTERISTICS

Priming volume: 130 ml
 Contact surface area: 1.10 m²
 Blood flow rate: 0.5 - 3.5 l/min
 Reference blood flow (ISO 7199 conditions): 4 l/min
 Cascade Arterial Filter pore size: 80 µm + 38 µm

Heat Exchanger surface area: 0.04 m²
 H.E. Performance Factor: $\eta = 0.60$ (at 3.5 l/min)
 Material: stainless steel
 Coating: Phosphorylcholine (PC)

* ISO 7199 conditions

Bovine blood
 Hb = 12 ± 1 g/dL

SVO₂ = 65 ± 5%
 PVC_{CO}2 = 45 ± 5 mmHg

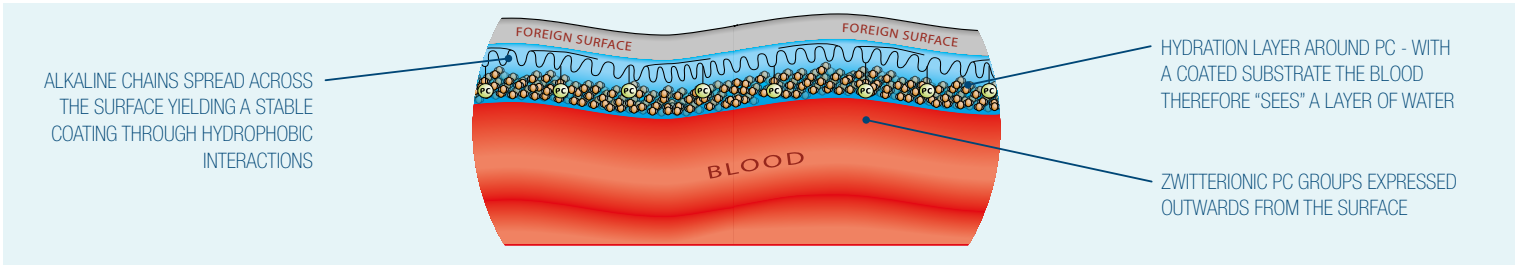
B.E. = 0 ± 5 mEq/L
 Temp. = 37 ± 1°C

Qb/Qg = 1
 FIO₂ = 100%



PHOSPHORYLCHOLINE COATING

Phosphorylcholine or PC is the predominant lipid headgroup found within the outer layer of cell membranes. PC has a natural affinity for water and binds water tightly around itself. As a result, the outer layer of the cell membrane does not promote clot formation (thrombosis).



ORDERING GUIDE

CODE	DESCRIPTION	NO./PACK
AG5232	TRILLY PEDIATRIC AF (Cardiotomy reservoir pre-connected with oxygenator module, PC coated)	2
EU2331	TRILLY PEDIATRIC AF Holder	1

REFERENCES

1. Eurosets performance data from lab tests.
2. Eurosets performance data from lab testing according to ISO-7199 conditions.
3. Richmond ME, Charette K, Chen JM, et al. The effect of cardiopulmonary bypass prime volume on the need for blood transfusion after pediatric cardiac surgery. J Thorac Cardiovasc Surg 2013;145:1058-64. 10.1016/j.jtcvs.2012.07.016 [PubMed] [CrossRef] [Google Scholar]
4. Lou S, Ji B, Liu J, Yu K, Long C. Generation, detection and prevention of GME during CPB. Int J Artif Organs. 2011 Nov; 34(11):1039-51
5. G.J. Meyers RRT, CCP. Does turning on the vent increase microemboli transmission post arterial filter? EBCP 2009 Wien

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