

COMPLETE ECMO
SOLUTION FOR ADULT,
PAEDIATRIC AND
NEWBORN PATIENTS

EC $\heartsuit$ OO



30 DAYS ECMO MODULES

ECMO Extra Corporeal Membrane Oxygenation is an extracorporeal technique providing both cardiac and respiratory oxygen support. This technique has proved to be effective in reducing mortality in patients suffering from potentially reversible heart failure and/or severe acute respiratory failure who did not respond to mechanical ventilation with maximal medical and pharmacological treatment⁶.

Eurosets offers physicians a complete solution for adult, pediatric and newborn ECMO patients including PC (PHOSPHORYLCHOLINE) coated oxygenator, all validated for 30 days of use.

The A.L.ONE ECMO oxygenator family is clinically proven to be an **efficient solution for prolonged cardiorespiratory support**^{1,2,6} and is characterized by an **excellent profile in terms of biocompatibility**³ since the PC coating has been shown to **significantly reduce platelet consumption**⁴.

Moreover, since it is **heparin free**, the A.L.ONE ECMO oxygenator is **suitable for patients with acute HIT** (Heparin-Induced Thrombocytopenia)⁵, where the removal of all sources of heparin is challenging³.

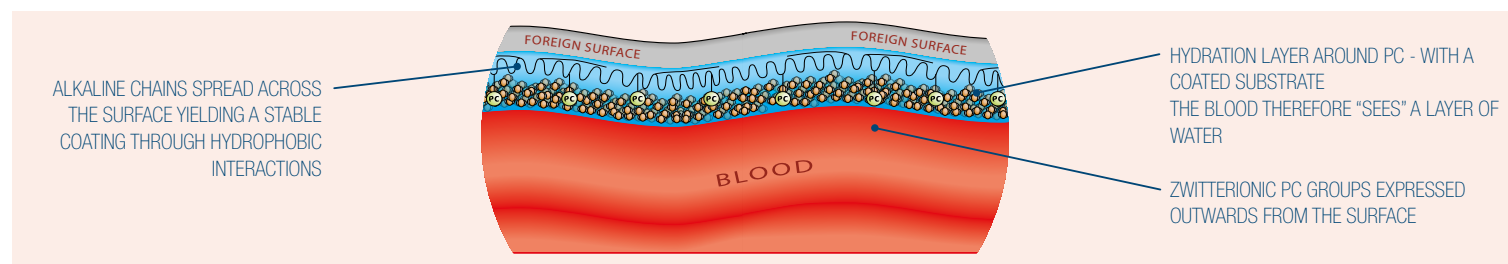


TAILORED ECMO
TUBING SET
WITH LONG TERM
VALIDATION
PERIOD



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).

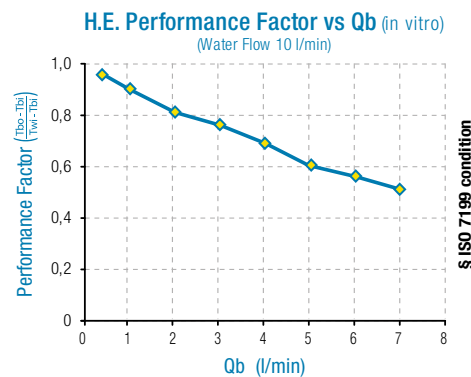
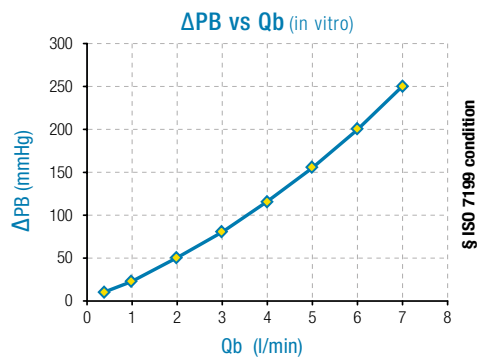
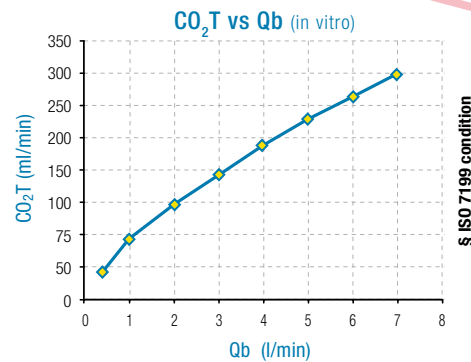
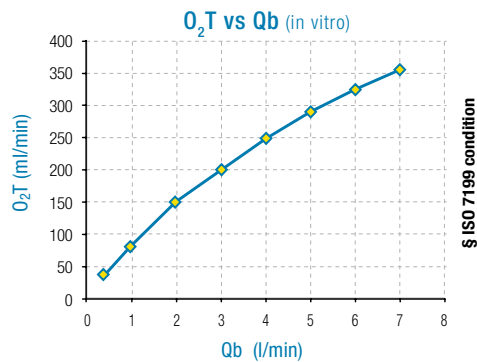


ADULT OXYGENATOR MODULE

TECHNICAL CHARACTERISTICS

PMP fibres	
Priming volume:	225 ml
Contact surface area:	1.81 m ²
Blood flow rate:	0.4 - 7.0 l/min
Heat Exchanger surface area:	0.08 m ²
H.E. Performance Factor:	$\eta = 0.64$ (at 4 l/min)
Material:	Stainless steel
Coating:	Phosphorylcholine (PC)
Venous inlet:	3/8" (9.53 mm)
Arterial outlet:	3/8" (9.53 mm)

30
days



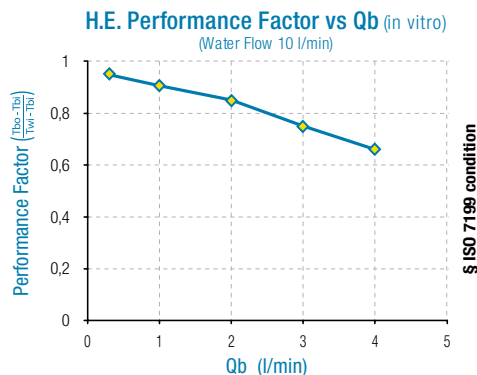
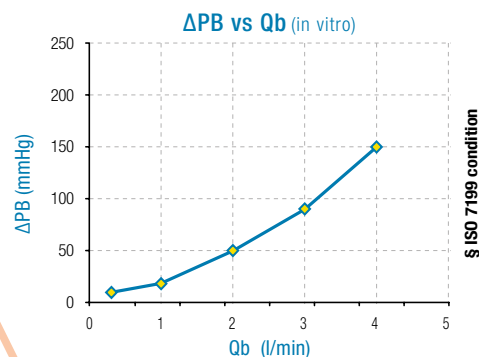
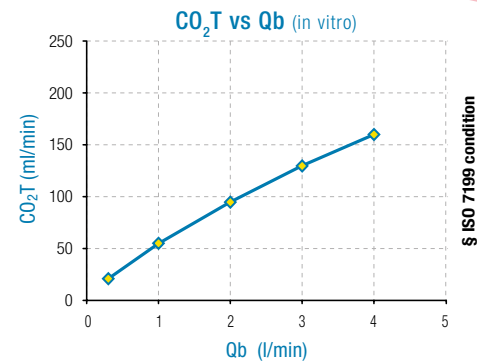
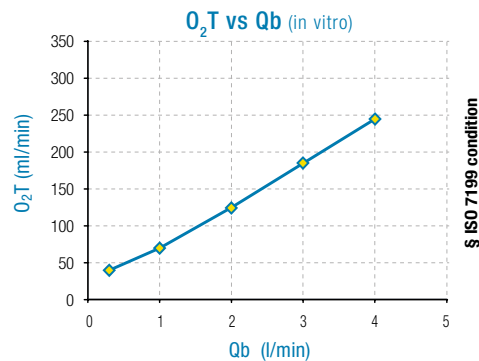
PAEDIATRIC OXYGENATOR MODULE

TECHNICAL CHARACTERISTICS

PMP fibres	
Priming volume:	190 ml
Contact surface area:	1.35 m ²
Blood flow rate:	0.3 - 4.0 l/min
Heat Exchanger surface area:	0.08 m ²
H.E. Performance Factor:	$\eta = 0.64$ (at 4 l/min)
Material:	Stainless steel
Coating:	Phosphorylcholine (PC)
Venous inlet:	3/8" (9.53 mm)
Arterial outlet:	3/8" (9.53 mm)



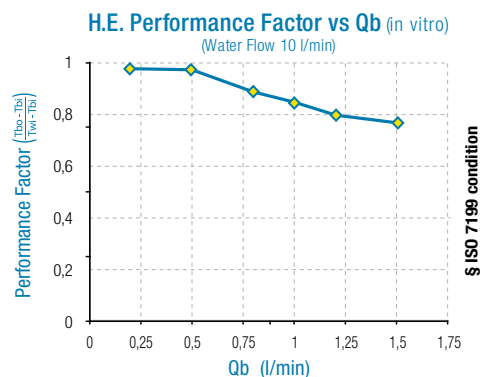
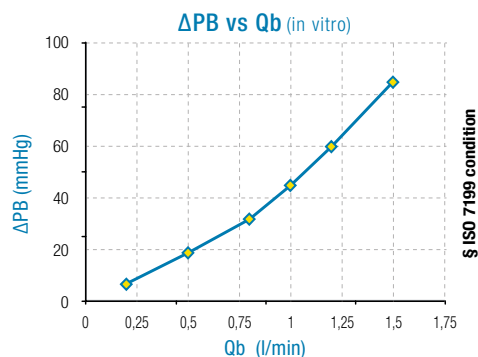
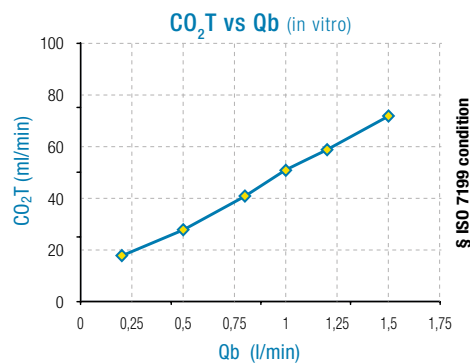
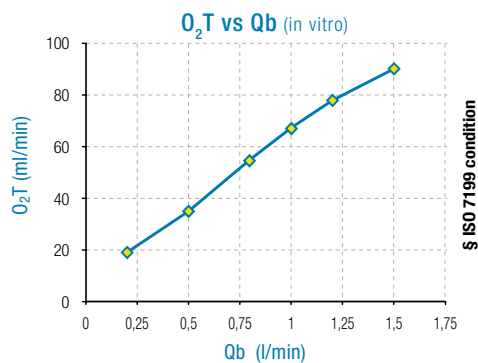
30
days



NEW BORN OXYGENATOR MODULE

TECHNICAL CHARACTERISTICS

PMP fibres	
Priming volume:	90 ml
Contact surface area:	0.69 m ²
Blood flow rate:	0.2 - 1.5 l/min
Heat Exchanger surface area:	0.04 m ²
H.E. Performance Factor:	$\eta = 0.77$ (at 1.5 l/min)
Material:	Stainless steel
Coating:	Phosphorylcholine (PC)
Venous inlet:	1/4" (6.35 mm)
Arterial outlet:	1/4" (6.35 mm)



30
days

§ ISO 7199 condition

Bovine blood

Hb = 12 ± 1 g/dL

SVO₂ = 65 ± 5%

PVCO₂ = 45 ± 5 mmHg

B.E. = 0 ± 5 mEq/L

Temp. = 37 ± 1 °C

Qb/Qg = 1

FI_{O2} = 100%



ORDERING
GUIDE

CODE	DESCRIPTION	NO./PACK
EU5019	ADULT A.L.ONE ECMO 30 days (Totally Coated)	2
EU5045	PAEDIATRIC A.L.ONE ECMO 30 days (Totally Coated)	2
EU5056	NEW BORN A.L.ONE ECMO 30 days (Totally Coated)	2
EU2257	HOLDER FOR A.L.ONE ECMO	1
EU2498	TOP FIXING HOLDER	1

REFERENCES

1. S.Calvi et al. **55 days ECMO support for post-cardiotomy, by-ventricular failure: a case report.** Abstract presented at 14th FECECT congress, 2011.

2. Nagi el Shouki, M.Stiller. **Case report of 19 days extra corporeal life support with a new ECMO oxygenator.** Abstract presented at 14th FECECT congress, 2011.

3. M.Pieri et al. **A new phosphorylcholine-coated polymethylpentene oxygenator for extracorporeal membrane oxygenation: a preliminary experience.** Perfusion 2012; Volume: 28 issue: 2, page(s): 132-137.

4. R. Lorusso et al. **Effects of phosphorylcholine coating on extracorporeal circulation management and postoperative outcome: a double-blind randomized study.** Interactive CardioVascular and Thoracic Surgery 8 (2009) 7–11.

5. F.Pappalardo et al. **Bioline® heparin-coated ECMO with bivalirudin anticoagulation in a patient with acute heparin-induced thrombocytopenia: the immune reaction appeared to continue unabated.** Perfusion 2009; 24: 135–137

6. M.Belliato et al. **A brief clinical case report of real-time monitoring of oxygenator performances and patient-machine interdependency during a prolonged VvECMO support.** J Clin Monit Comput. 2017 Oct;31(5):1027-1033

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