

CARDIOPULMONARY



A SOLUTION FOR
EVERY NEED

Skippaer[™]



EUROSETS
EVERY LIFE MATTERS

Skipper™

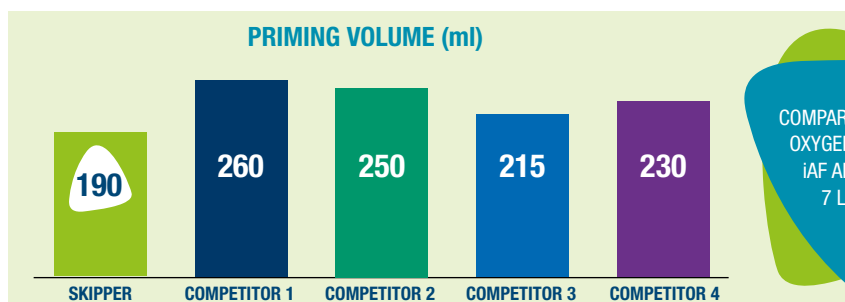
A SOLUTION FOR EVERY NEED



Dilutional anaemia and coagulopathy have long been negatively linked to the conducting of cardiopulmonary bypass (CPB).¹ Scientific literature has demonstrated that complications such as stroke, myocardial infarction, low cardiac output, cardiac arrest, renal failure, prolonged ventilation, pulmonary oedema, reoperation due to bleeding and multiorgan failure, were all significantly and systematically increased as the lowest haematocrit values decreased below 22%.²

Larger priming volumes result in lower haemoglobin (Hgb) peak levels, which have been associated with increased in-hospital stay and long-term mortality, increased troponin release, longer mechanical ventilation times, and decreased estimated glomerular filtration rates.³⁻⁴

Skipper is specially designed to have the lowest priming volume (Fig. A) with a low contact surface area, combining excellent gas transfer performance with clinical flexibility for adolescent and adult patients.



COMPARISON WITH
OXYGENATOR WITHOUT
iAF AND VALIDATED
7 L/MIN

Fig. A

SOURCES: COMPETITORS BROCHURES

VENOUS CARDIOTOMY RESERVOIR

TECHNICAL CHARACTERISTICS

Capacity:	4500 ml
Venous Filter Pore Size:	80 μm
Cardiotomy Filter Pore Size:	40 μm
Cardiotomy reservoir ready for vacuum (equipped with over-under safety valve)	
Connectors:	6 x 1/4"
	1 x POS Lock - 1 x 3/8" - 2 x Luer Lock
	1 x POS Lock/Luer Lock - 1 x Unfiltered Luer Lock



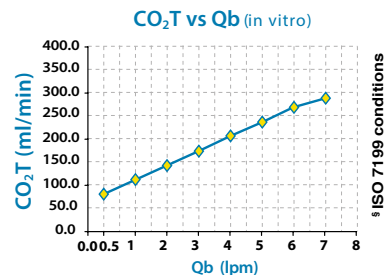
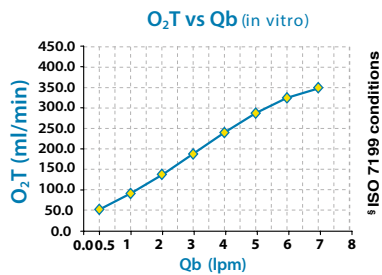
OXYGENATOR MODULE

TECHNICAL CHARACTERISTICS

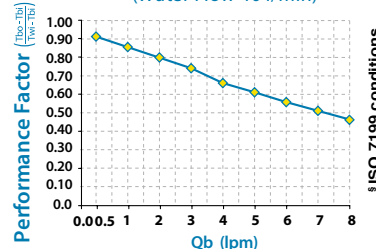
Priming volume:	190 ml
Contact surface area:	1.35 m ²
Max. blood flow rate:	7.0 l/min
Innovative Heat Exchanger	
Heat Exchanger surface area:	0.08 m ²
H.E. Performance Factor:	$\eta = 0.64$ (at 4 l/min)
Coating:	Phosphorylcholine (PC)

ISO 7199 conditions

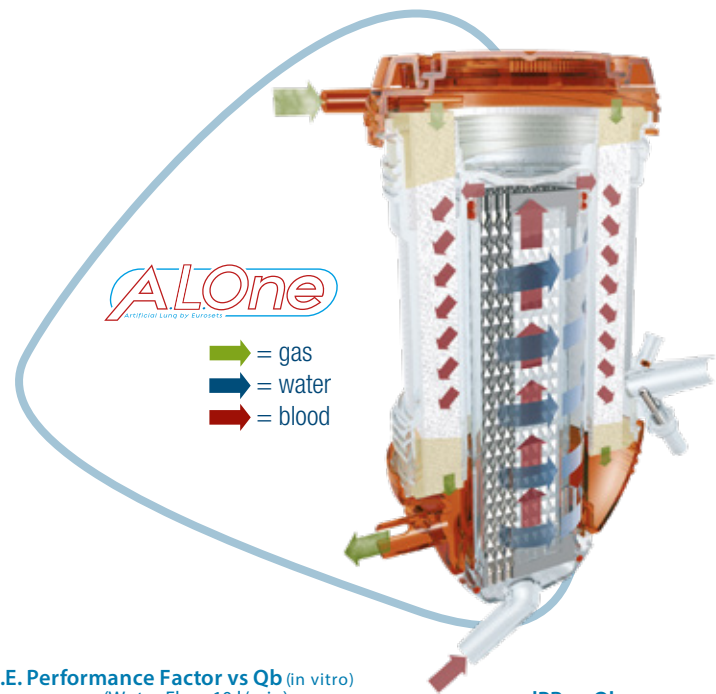
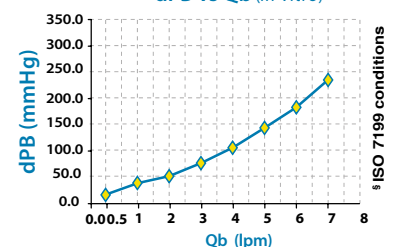
Bovine blood	SVO ₂ = 65 ± 5%	B.E. = 0 ± 5 mEq/L	Q _b /Q _g = 1
Hb = 12 ± 1 g/dL	PVCO ₂ = 45 ± 5 mmHg	Temp. = 37 ± 1°C	FI _{O2} = 100%



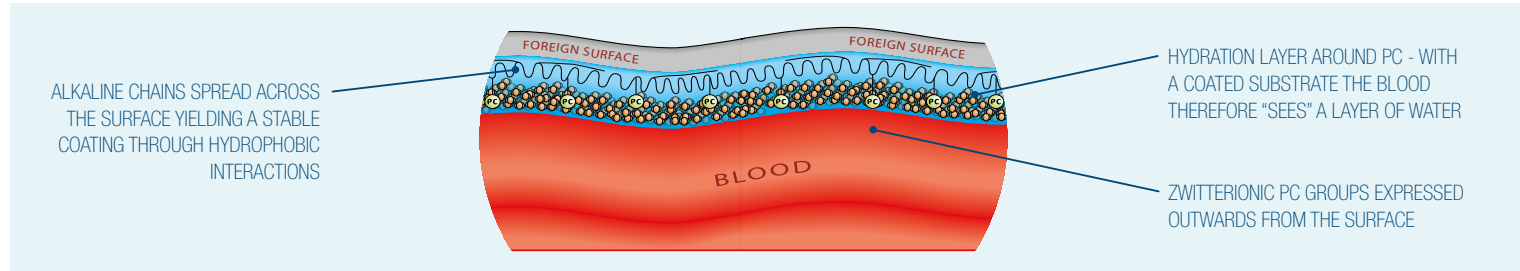
H.E. Performance Factor vs Q_b (in vitro)
(Water Flow 10 l/min)



dPB vs Q_b (in vitro)



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
EU5007	Skipper Sterile	2
EU2331	Holder (Oxy Gas Module + Reservoir)	1

REFERENCES

1. Ranucci M, Pazzaglia A, Bianchini C, Bozzetti G, Isgro G. **Body size, gender, and transfusions as determinants of outcome after coronary operations.** Ann Thorac Surg. 2008;85:481–6.
2. Habib RH et Al. **Adverse effect of low hematocrit during CPB in the adult: should current practice be changed?** JThoracCardiovascSurg 2003 Jun; 125(6):1438-50
3. Loor G, Li L, Sabik JF 3rd, Rajeswaran J, Blackstone EH, Koch CG. **Nadir hematocrit during cardiopulmonary bypass: End-organ dysfunction and mortality.** J Thorac Cardiovasc Surg. 2012;144:654–62
4. Fang WC, Helm RE, Krieger KH, et al. **Impact of minimum haematocrit during cardiopulmonary bypass on mortality in patients undergoing coronary artery surgery.** Circulation. 1997;96:11-194–9

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