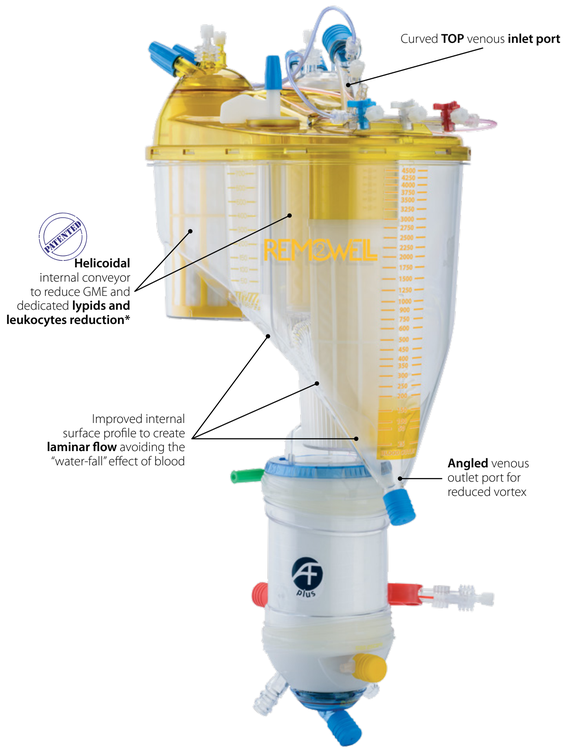

ORDERING GUIDE

RESERVOIR	OXYGENATOR MODULE		
	 **A.L.ONE AF Plus (1.65 m²)** code AG5204 (N° 4 pcs/pack)	 **A.L.ONE (1.35 m²)** code AG5000 (N° 4 pcs/pack)	 **AMG (1.81 m²)** code AG5012 (N° 4 pcs/pack)
 **CVR REMOWELL2** code AG5074 (N° 1 pcs/pack)	**REMOWELL2 AF Plus (1.65 m²)** code AG5301 (N° 1 pcs/pack) INTEGRATED A.L.ONE AF Plus MODULE and REMOWELL2 CVR	**REMOWELL2 A.L.ONE (1.35 m²)** code AG5101 (N° 1 pcs/pack) INTEGRATED A.L.ONE MODULE and REMOWELL2 CVR	**REMOWELL2 AMG (1.81 m²)** code AG5103 (N° 1 pcs/pack) INTEGRATED AMG MODULE and REMOWELL2 CVR

CODE	DESCRIPTION	N°/PACK
EU2331	Holder for REMOWELL2	1
EU2147/P	Holder for CVR REMOWELL2	1
EU2054/P	Holder for Oxygenator Module	1

*REFERENCES

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Robert F. Brooker et al. Cardiotomy Suction:a Major Source of Brain Lipid Emboli during Cardiopulmonary bypass. Ann Thorac Surg 1998;65: 1651-5
• Lipid particles in the side range of 10 µm to were characterized in shed mediastinal blood, until 300,000 particles per milliliter of blood were found.
Alli Eigolfsson, Henrik Jonsson et al. Characterization of Lipid Particles in Shed Mediastinal Blood. Ann Thorac Surg 2008; 85: 978-81
• Embolization of lipids is not a phenomenon restricted to the brain, but affected other organs which kidneys1, spleen1 and lung2.
1 Henrik Jonsson et al. Differential Distribution of Lipid Microemboli After Cardiac Surgery. Ann Thorac Surgery 2006; 81: 643-9
2 AJ de Vries et al. The rationale for fat filtration during cardiac surgery. Perfusion 2002; 17: 29-33
• Activation of the systemic inflammatory response during CPB has been a mayor problem for clinicians because of the potenzial deleterious effect on organs such as the heart, brain, lung, kidneys. one strategy may be the use of leukocyte-depleting filters.
Oliver Warren et al. The effect of various leukocyte filtration strategeys in cardiac surgery. Eur J Cardiothorac Surg 2007; 31: 665-676 Shalini Boodram et al. Use of Leukocyte-depleting Filters During Cardiac Surgery with Cardiopulmonary bypass: A Review. JECT 2008; 40: 27-42

*REMOWELL PUBBLICATIONS

• Quantification of Lipid Filtration and the Effects on Cerebral Injury During Cardiopulmonary Bypass
Richard W. Issitt, FCCP, Ian Harvey, LCCP, Bronagh Walsh, PhD, and David Voegeli, PhD
Perfusion Department, Great Ormond Street Hospital for Children, London; Faculty of Health Sciences, University of Southampton, Southampton; and Perfusion Department, John Radcliffe Hospital, Oxford, United Kingdom
(Ann Thorac Surg 2017) ©2017 by The Society of Thoracic Surgeons
• Do lipid microemboli induce acute kidney injury during cardiopulmonary bypass?
Richard Issitt, Tim James, Bronagh Walsh and David Voegeli
Perfusion 1-8 © The Author(s) 2017
• The use of Removell oxygenatorintegrated device in the prevention of the complications related to aortic valve surgery in the elderly patient: Preliminary results
Alberto Molandi, Bruno Borrello - Department of General and Specialized Surgery, Cardiac Surgery Unit, University Hospital of Parma, Italy
Maria V. Di Chicco, Davide Carino, Matteo Goldoni, Matteo Ricci, Florida Grigioni, Tiziano Gherli and Francesco Nicolini - Department of Medicine and Surgery, University Medical School, University of Parma, Italy
European Journal of Preventive Cardiology 2018, Vol. 25(1) 59–65

Rev. 2018/08

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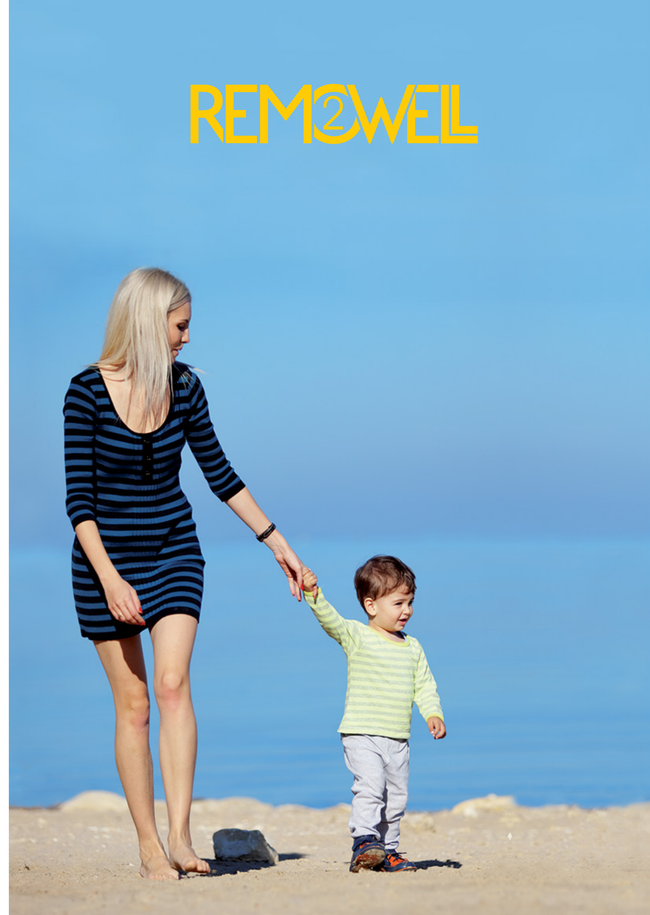
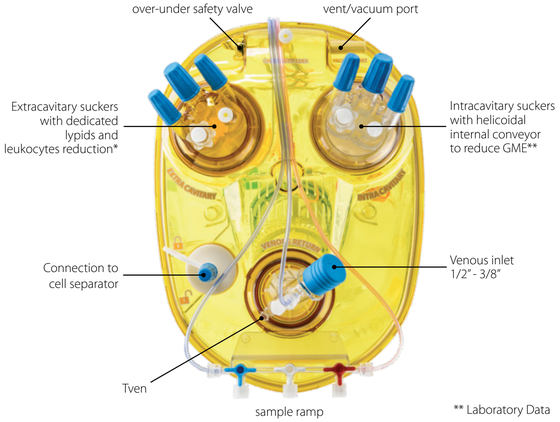
REMOWELL

DUAL CHAMBER ADULT OXYGENATOR WITH LIPIDS AND LEUKOCYTES REDUCTION

CARDIOPULMONARY





** Laboratory Data

ADAPTERS

1/4" - Luer (1 pcs)
3/8" - Luer (1 pcs)

3/8" - 1/4" (1 pc)

1/2" - 3/8" (1 pc)

CVR REMOWELL2 MAIN FEATURES

- 4500 ml total reservoir capacity
- 800 ml cardiotomy capacity
- 3 different filtration systems:
  - Venous inlet (80µm)
  - Intracavitary inlet (40µm)
  - Extracavitary inlet
    - · Two steps lipid-leukocytes depletion:
    - · Multilayer cascade filtration (for lipids and leukocytes)
    - · Supernatant separator (lipids only)
- Fully PC coated
- Suitable for VAVD

CONNECTIONS

- venous inlet, 360° rotatable 1/2" *with 3/8" adapter*
- venous reservoir outlet 3/8"
- vented/vacuum port 1/4"
- 4 filtered ports 1/4", *1 of those with 1/4" - luer lock adapter*
- 2 filtered port 3/8", *1 of those with 3/8 - 1/4" adapter 1 of those with 3/8" - luer lock adapter*
- 2 filtered luer lock ports
- 2 filtered post lock - luer lock
- 1 non filtered luer lock

LIPIDS AND LEUKOCYTES REDUCER

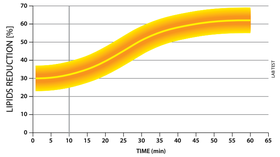
- Despite improvements in cardiopulmonary bypass (CPB) brain injury remains a significant sequela of cardiac surgery.
- Cardiopulmonary bypass is associated with an inflammatory reaction that involves activation of plasma proteins and cells.
- Activation of leukocytes, in particular neutrophils, directly contributes to issue and organ injury.

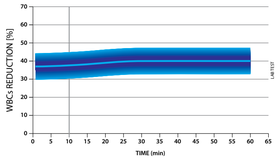
*

CARDIOTOMY FEATURES

- Capacity 800 ml
- Two steps lipid-leukocytes depletion:
- Multilayer cascade filtration (for lipids and leukocytes)
- Supernatant separator (lipids only)

Cardiotomy Capacity 800 ml





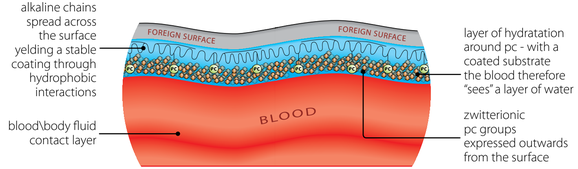
Agile™ Advanced Hemocompatibility from Sorin Group

PHOSPHORYLCHOLINE COATING

Phosphorylcoline or PC is the predominant lipid headgroup found in 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 clots formation (thrombosis).

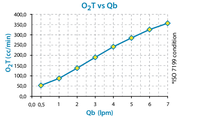
- low thrombogenic
- low inflammatory response
- stable
- resistant to bacterial adhesion
- resistant to protein deposition

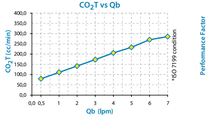


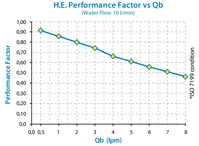
ALONE OXYGENATOR MODULE

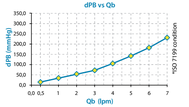
TECHNICAL CHARACTERISTICS

Priming volume:	190 ml
Contact surface area:	1,35 m²
Max blood flow rate:	7,0 l/min
Innovative Heat Exchanger	
Heat Exchanger surface area:	0.08 m²
H.E. Performance Factor	η = 0.64 (@ 4 l/min)
Coating:	PC phosphorylcholine





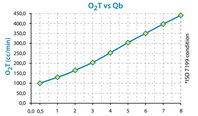


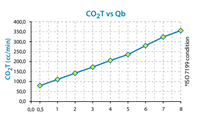


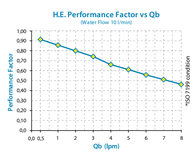
AMG OXYGENATOR MODULE

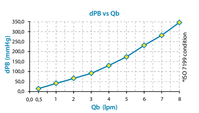
TECHNICAL CHARACTERISTICS

Priming volume:	220 ml
Contact surface area:	1,81 m²
Max blood flow rate:	8,0 l/min
Innovative Heat Exchanger	
Heat Exchanger surface area:	0.08 m²
H.E. Performance Factor:	η = 0.64 (@ 4 l/min)
Coating:	PC phosphorylcholine









A.L.ONE AF PLUS

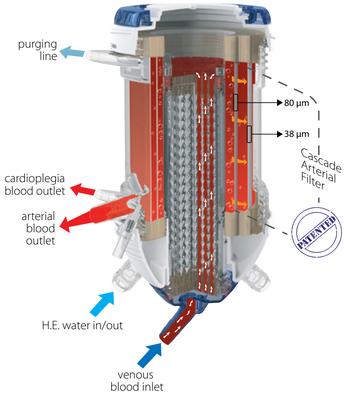
OPTIMIZED PRESSURE RESISTANCE OXYGENATOR MODULE WITH INTEGRATED CASCADE ARTERIAL FILTER

TECHNICAL CHARACTERISTICS

Priming volume:	225 ml
Contact surface area:	1.65 m²
Max blood flow rate:	7.0 l/min
Cascade Arterial Filter pore size:	80 µm + 38 µm
Heat Exchanger surface area:	0.08 m²
H.E. Performance Factor:	η = 0.64 (@ 4 l/min)
Material:	stainless steel
Coating:	PC phosphorylcholine

CARDIOPLEGIA ADAPTER

Poslock - 1/4" M (1 pc)



* ISO 7199 condition
Bovine blood — PvCO2 = 45 ± 5 mmHg — Qb/Qo = 1
Hb = 12 ± 1g/dL — B.E. = 0 ± 5 mEq/L — FiO2 = 100%
SvO2 = 65 ± 5% — Temp = 37 ± 1°C